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The University Record

of the

University of Florida

1932-33



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Volume XXVII, Series 1

Numbers 1-23

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The University Record

of the

University of Florida

Bulletin of the

Graduate School

With Announcements for the Year

1932-33



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The Reports of the President and the Board of Control, the Bulletin of General Information, the annual announcements of the individual colleges of the University, announcements of special courses of instruction, and reports of the University Officers.

These bulletins will be sent gratuitously to all persons who apply for them. The applicant should specifically state which bulletin or what information is desired. Address

THE REGISTRAR
University of Florida
Gainesville, Florida

Research Publications.—Research publications will contain results of research work. Papers are published as separate monographs numbered in several series.

There is no free mailing list of these publications. Exchanges with institutions are arranged by the University Library. Correspondence concerning such exchanges should be addressed to the University Librarian, University of Florida, Gainesville, Florida. The issue and sale of all these publications is under the control of the Committee on Publications. Requests for individual copies, or for any other copies not included in institutional exchanges, should be addressed to the University Library, University of Florida, Gainesville, Florida.

The Committee on University Publications
University of Florida
Gainesville, Florida

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GRADUATE SCHOOL CALENDAR

SECOND SEMESTER, 1932

- February 4-5, Thursday and FridayRegistration.
February 17, WednesdayLast day for registration for the second semester.
February 27, SaturdayLast day to file with Registrar application for degree at end of second semester.
March 15, TuesdayLast day for those beginning graduate work the second semester to file with the Dean application (form two) to be considered candidates for advanced degrees.
May 2, MondayLast day for those graduating at end of session to submit theses to Dean.
June 6, MondayCommencement Day.

SUMMER SESSION, 1932

- June 13-14, Monday and TuesdayRegistration.
June 25, 12:00 noonLast day for filing with Registrar application for a degree at the end of the summer session.
July 4, MondayHoliday.
July 9, SaturdayLast day for those graduating at the end of the summer session to submit theses to Dean.
July 11, MondayLast day for those beginning graduate work to file with Dean application (form two) to be considered candidates for advanced degrees.
July 16, SaturdayClasses suspended.
July 30, SaturdayClasses suspended.
August 4, Thursday, 8:00 P.M.Summer Session Commencement Exercises.
August 5, FridaySummer session closes.

REGULAR SESSION, 1932-33

- September 12, MondayFreshman Week begins.
September 16-17, Friday and Saturday..Registration.
September 24, SaturdayLast day for change of course without payment of \$2 fee.
September 24, SaturdayLast day for registration for the first semester.
October 8, SaturdayLast day to make application to the Registrar for a degree at the end of the first semester.
November 1, TuesdayLast day for those beginning graduate work to file with Dean application (form two) to be considered candidates for advanced degrees.

November 24, 25, 26, Thursday, Friday,
 and SaturdayThanksgiving Holidays.
 December 17, Saturday, 12:00 noon ..Christmas recess begins.

1933

January 2, MondayLast day for those graduating at end
 of the first semester to submit theses
 to Dean.
 January 30, Monday, 10:00 A.M.Commencement exercises.
 February 2-3, Thursday and FridayRegistration for second semester.
 February 10, FridayLast day for registration for the sec-
 ond semester.
 February 25, SaturdayLast day to file with Registrar appli-
 cation for degree at end of second
 semester.
 March 15, WednesdayLast day for those beginning graduate
 work the second semester to file with
 the Dean application (form two) to
 be considered candidates for ad-
 vanced degrees.
 May 1, MondayLast day for those graduating at the end
 of session to submit theses to Dean.
 June 5, MondayCommencement Day.

INSTRUCTIONS FOR GRADUATE STUDENTS

1. Correspond with the Dean and if necessary with the head of the department in which you propose to take your major work.
2. If you are found eligible and decide to come to the University of Florida, have the Registrar of your school send a transcript of your work to the Dean of the Graduate School. This should be in the hands of the Dean at least a month before the date for registration.
3. At the proper time, register with the Dean. He will give you blank form No. 1 to take to your department head. Either the head of the department or some other professor in the department will become the professor of your major subject and will on blank one suggest courses for which you should register for the session. Take this blank to the Dean and complete registration.
4. Within the time indicated in the calendar get blank form No. 2 and have it signed by your professors and file it with the Dean.
5. See that the language requirements are satisfied at the proper time.
6. Early in your last semester or last summer session notify the Registrar by the time indicated in the calendar that you are a candidate for a degree.
7. When you are ready to put the thesis in final form, get instructions at the Dean's office. Watch your time. Consult the calendar.
8. Look to the professor of your major subject and your special supervisory committee for guidance.
9. Always feel free to seek information at the Dean's office if you have any doubt in regard to the requirements.

ADMINISTRATIVE OFFICERS

JOHN JAMES TIGERT, M.A. (Oxon.), Ed.D., D.C.L., LL.D., President of the University

JAMES NESBITT ANDERSON, Ph.D., Dean of the Graduate School

LILLIAN WHITLEY, Secretary to the Dean

THE GRADUATE COUNCIL

THE DEAN

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JAMES MILLER LEAKE, Ph.D., Head Professor of History and Political Science

TOWNES RANDOLPH LEIGH, Ph.D., Head Professor of Chemistry and Dean of the College of Pharmacy

JAMES SPEED ROGERS, Ph.D., Head Professor of Biology and Geology

THOMAS MARSHALL SIMPSON, Ph.D., Head Professor of Mathematics

ROBERT CROZIER WILLIAMSON, Ph.D., Head Professor of Physics

TEACHING FACULTY

Those offering courses listed in this bulletin

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- MADISON DERRELL CODY, M.A., Head Professor of Botany and Bacteriology
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 CHARLES LANGLEY CROW, Ph.D., Head Professor of German and Spanish
 RALPH DAVIS DICKEY, B.S.A., Assistant Professor of Entomology and Plant Pathology
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 JOSEPH RICHARD FULK, Ph.D., Professor of Education
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 HENRY GLENN HAMILTON, Ph.D., Associate Professor of Marketing Agricultural Products
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 ELMER DUMOND HINCKLEY, Ph.D., Head Professor of Psychology
 THEODORE HUNTINGTON HUBBELL, M.A., Associate Professor of Biology
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 WILLIAM LEONARD LOWRY, B.A., Assistant Professor of Journalism
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 CARL E. MITTELL, B.F.A., Instructor in Drawing and Painting

- CLARENCE VERNON NOBLE, Ph.D., Agricultural Economist, Experiment Station
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College of Education
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Painting
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and Dairying
PHILIP OSBORNE YEATON, B.S.M.E., Assistant Professor of Mechanical En-
gineering

GENERAL INFORMATION

ADMINISTRATION

The affairs of the Graduate School are administered by the Graduate Council, which consists of the Dean who is *ex officio* chairman, and certain members of the faculty, who are appointed annually by the President.

ADMISSION

For unqualified admission to the Graduate School, two things are needed: (1) Graduation from a standard college or university. (2) Foundation work in the major subject sufficient in quantity and quality to satisfy the requirements of the department in which the student proposes to major.

If the student cannot meet these two requirements, he may nevertheless be permitted to register and take such courses as may be required as prerequisites to satisfy either, or both, of the above requirements. The work done under these conditions does not count toward the degree. Therefore such students will often be required to spend longer than the prescribed time in completing the requirements for the degree. It is permissible for well-qualified students to take courses in the Graduate School without becoming candidates for the advanced degree.

REGISTRATION

All graduate students, old or new, are required to register in the Office of the Dean on the regular registration days as indicated in the bulletin. The student should consult in advance the Dean and the head of the department in which he purposes to major, and inquire if he is eligible to register for this work. A complete transcript of all undergraduate and graduate work should be sent direct to the Dean of the Graduate School from the institution from which the credits have been earned.

This transcript should be in the Dean's hands at least one month before the beginning of the session. If the student seems eligible, he will be referred by the Dean to the head of the department concerned. Either the Head of the Department or some professor in that Department will become the professor of the major subject for the student, and will plan the courses for which he is to register. A blank form is furnished at the Dean's Office.

FEES

A registration fee of \$7.50 is required of all students. For the summer session this fee is \$15. Holders of fellowships, graduate assistantships, and graduate scholarships are exempted from all fees except the registration and the diploma fee. There are some fees that are optional—for instance, students' activity fee and the infirmary fee. If the student wishes to use the privileges that go with these fees, he must pay the fees in advance. Students taking the laboratory courses will usually pay the laboratory fees that are listed with those courses. All students pay a diploma fee of \$5.00 before graduation.

When students come from other states or countries and have not established residence in the State of Florida, they are required to pay an additional fee of \$100 for the regular session and an additional fee of \$2.50 for the summer session.

LIST OF FELLOWSHIPS, GRADUATE ASSISTANTSHIPS, AND SCHOLARSHIPS

With the Annual Stipend

Agriculture:

Agricultural Economics—

Graduate Assistant in Marketing \$ 600

Graduate Assistant in Farm Management 600

Agricultural Engineering—Graduate Assistant 600

Agronomy—Graduate Assistant 600

Animal Husbandry—Graduate Assistant 600

Entomology and Plant Pathology—Graduate Assistant 600

Horticulture—Graduate Assistant 600

(Agricultural Chemistry is included in Chemistry)

Architecture and Allied Arts:

Fellow 500

Biology and Geology:

Graduate Assistant 500

Business Administration and Economics:

Two Graduate Assistants at \$450 each 900

Two Research Assistants at \$400 each 800

Chemistry:

Six Graduate Assistants at \$500 each 3000

Engineering:

Civil Engineering—One Graduate Assistant 500

Mechanical Engineering—One Graduate Assistant 500

(Chemical Engineering is included in Chemistry)

Pharmacognosy and Pharmacology:

Two Graduate Assistants at \$500 each 1000

Pharmacy:

Two Graduate Assistants at \$500 each 1000

Psychology:

One Graduate Assistant 400

Physics:

Four Graduate Assistants at \$400 each 1600

Sociology:

One Graduate Assistant, second semester 200

General:

Fifteen Graduate Scholarships at \$250 3750

(These scholarships may be in any department that offers major work for a Master's degree. File application not later than March 15. Students accepting these scholarships are not permitted to take other remunerative positions or jobs)

REQUIREMENTS FOR THE MASTER'S DEGREE

Degrees Offered.—Master of Arts; Master of Arts in Architecture; Master of Arts in Education; Master of Science; Master of Science in Agriculture; Master of Science in Engineering; Master of Science in Journalism; and Master of Science in Pharmacy (The degree of Master of Science in Business Administration, which was formerly offered, is no longer open to new students).

Application.—Those who wish to be considered candidates for the Master's degree must present to the Dean a written application not later than the first of November of the first year's residence, or March 15 for students beginning work the second semester. The blank for this application may be obtained at the Office of the Dean. This application must name the major and minor subjects offered for the degree, the title of the thesis, and carry the signed approval of the professor of the major subject and the professors of his minors.

Time Required.—The student must spend at least one entire academic year at the University as a graduate student devoting his full time to the pursuit of his studies. If there is a break in the student's work, his whole course must be included within a period of seven years.

Work Required.—The major work consists of twelve semester hours in courses designed for graduate students only. These courses are in the 500 numbers. Twelve semester hours are also required as one or more minors. The courses selected for the minor or minors, as well as the courses for the major work, must meet the approval of the professor of the major subject and the approval of the Dean or Graduate Council. The minors will be in the 300 or 400 or 500 numbers. The work in the minors is estimated to take about one-third of the student's time, the other two-thirds being devoted to the major work and the thesis. As a rule the student will have had four years of college work, or its equivalent, in the subject selected for his major, and not less than two years of college work in the subject, or subjects, selected as minors. As a rule, it is not permissible to select a minor in the same department as the major, but the departments should be allied.

Grades.—To obtain credit for a graduate course the student must attain a grade of not less than "B" in both major and minor work. Reexaminations are not permitted.

Foreign Language.—A reading knowledge of at least one foreign language is required of all candidates. The examination in the foreign language will be conducted by the language department concerned. This requirement must be satisfied before the beginning of the last semester. In case the student is completing all his work in the summer sessions the foreign language requirement must be satisfied before the beginning of the third summer's work. Up to and including the year 1932, it is possible that this requirement will be waived, if this is recommended by the student's Special Committee and approved by the Graduate Council. If the student is majoring in a language, that language cannot be used to satisfy this requirement.

Thesis.—Every candidate for the Master's degree must present a thesis showing original research and independent thinking on some subject accepted by the professor under whom the major work is taken, and duly submitted

to the Dean or to the Graduate Council for approval. In regard to the form of the thesis, the student should call at the Dean's office for instructions. Two copies of this thesis must be in the hands of the Dean not later than May 1 of the regular session. If the student expects to graduate at the end of the first semester, the thesis must be submitted by January 2. These copies are deposited in the Library if the thesis is accepted.

Special Committee.—When the student has qualified as a candidate by having his course of study and the title of his thesis approved, a Special Supervisory Committee consisting of not less than three members will be appointed by the Dean. The professor of the major subject will be the chairman of this committee. The Dean is *ex officio* a member of all supervisory committees.

General Examination.—It will be the duty of the Special Supervisory Committee, when all work is complete or practically complete, including the regular courses and the thesis, to conduct a general examination, either written or oral, or both, to embrace: first, the thesis; second, the major subject; third, the minor or minors; fourth, questions of a general nature pertaining to the student's field of study. The Committee shall report in writing to the Dean not later than one week before the time for the conferring of the degree if all work has been completed in a satisfactory manner and the student is recommended for the degree.

Work Done in Absentia.—Credit is not given for work done *in absentia*. No courses may be taken for credit by extension or correspondence. But under the following conditions the Graduate Council may vote to allow the student to finish and submit his thesis when not in residence:

- (1) If he has completed his residence requirement.
- (2) If he has completed his course requirements.
- (3) If he has submitted while in residence a draft of his thesis and obtained the approval of his supervisory committee as to the substance of his thesis.
- (4) If the Supervisory Committee recommends to the Graduate Council that the student be given the privilege of finishing the thesis *in absentia* and submitting it later.

In case this privilege is granted and the final draft of the thesis is approved, it will be necessary for the student to appear and stand the final examination. His presence will also be necessary at Commencement if the degree is conferred.

Summer Session.—Four complete summer terms devoted entirely to graduate work will satisfy the time requirement. The terms need not be consecutive, but the work must be completed within seven years. The application, blank form 2, must be presented not later than four weeks after the beginning of the first term. The title of the thesis should be submitted by the end of the first summer. It must be submitted and approved by the end of the second summer, or else the student will not be permitted to graduate in two more summers. Unless the student presents by the end of his third summer a draft of his thesis sufficient to convince the professor of his major subject that he will have a satisfactory thesis, the student will not be eligible to

graduate by the end of his fourth summer. The thesis itself must be completed and submitted to the Dean not later than the end of the fourth week of the summer session in which the student expects to receive his degree.

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

The University of Florida is now prepared to register students who wish to enter upon a course leading to the Degree of Doctor of Philosophy, but only in the departments of Chemistry and Pharmacy.

It is expected that other departments will be added from year to year as our facilities increase. The degree will not be conferred before 1933.

Residence.—A minimum of three academic years of resident graduate work, of which at least the last year shall be spent at the University of Florida, is required of all candidates for the Doctor's degree. In many cases, it will be necessary to remain longer than three years, and necessarily so when the student is not putting in his full time in graduate work. Two-thirds of the student's time is expected to be spent upon his major subject and the dissertation, and about one-third on his minor or minors. The student will be guided by the professor of his major subject and by his special committee in regard to his whole course of study. The Graduate Council does not specify just what courses or how many courses will be required. The work is now mainly research, and the student will be thrown largely upon his own responsibility. He is expected to familiarize himself thoroughly with his field of study, and as a result of his studies and investigations, to produce a work which will add something to human knowledge.

The student must take one minor and may not take more than two minors. In general, if two minors are taken the second minor will require at least one year. The first minor will require twice as much work as the second, and if only one minor is taken it will require as much work as two minors.

Special Committee.—When the student has advanced sufficiently towards his degree, a special committee will be appointed by the Dean, of which committee the professor of the major subject will be chairman. This committee will direct, advise, and examine the student. The Dean is ex officio a member of all supervisory committees.

Language Requirement.—A reading knowledge of both French and German is required of all candidates for the Ph.D. degree. The examinations in the languages are held by the language departments concerned. These requirements should be removed as early as possible in the student's career, and must be satisfied before the applicant can be admitted to the qualifying examination.

Qualifying Examination.—A qualifying examination is required of all candidates for the degree of Doctor of Philosophy. This examination will be held during the second semester of the second year of residence. The examination is both written and oral and covers both major and minor subjects. It will be conducted by his special supervisory committee. The qualifying examination must be passed at least a year before the student comes up for the degree. If the student fails in his qualifying examination, he will not

be given another opportunity unless for special reasons a reexamination is recommended by his special committee and approved by the Graduate Council.

Dissertation.—A satisfactory dissertation showing independent investigation and research is required of all candidates. Two typewritten copies of this dissertation must be presented to the Dean not later than May 1 of the year in which the candidate expects to receive his degree. If the student should be a candidate for the degree in a summer term, July 1 would be the final date for submitting the dissertation to the Dean.

Printing of Dissertation.—One hundred printed copies of the dissertation must be presented to the University within one year after the conferring of the degree. After the dissertation has been accepted, the candidate must deposit with the Business Manager, not later than one week before the degree is conferred, the sum of \$50 as a pledge that the dissertation will be published within the prescribed time. This sum will be returned if the printed copies are received within the year.

Final Examination.—After the acceptance of the dissertation and the completion of all the work of the candidate, he will be given a final examination, oral or written, or both oral and written, by his Special Supervisory Committee.

Recommendation.—If the final examination is passed, the Special Committee will report to the Dean in writing not later than one week before the time for conferring the degree that the student has met all requirements for the degree, and that he is presented to the Graduate Council for recommendation to the Board of Control for the degree of Doctor of Philosophy.

DEPARTMENTS OF INSTRUCTION

Graduate Courses.—Only strictly graduate courses are listed in this bulletin. For other courses in the various departments see the bulletin of the college in which the courses are offered.

The courses are arranged alphabetically. Not all the courses will be given in 1932-33. In some cases the courses not offered for that year are indicated. In other cases the courses actually given will be determined by the demand.

GRADUATE COURSES

AGRICULTURAL ECONOMICS

As. 501-502.—Agricultural Economics Seminar. 2 hours. 2 credits. Turlington and the Agricultural Economics staffs.

A study of recent literature and research work in agricultural economics. (An entire change of subject matter will be made.)

As. 505-506.—Research Problems—Farm Management. Hours to be arranged by the Head of the Department. Turlington and Noble.

As. 508.—Land Economics. 2 hours and 2 hours laboratory. 3 credits. Hamilton.

Rural taxation, colonization and adjustment of rural lands to their best uses.

As. 509.—Citrus Grove Organization and Management. 1 hour and 2 hours laboratory. 2 credits. Turlington.

The organization and management of successful citrus properties in Florida.

As. 510.—Organization and Management of Truck Farms. 1 hour and 2 hours laboratory. 2 credits. Turlington.

The economic organization and management of successful truck farms in Florida.

As. 511-512.—Research Problems—Marketing Agricultural Products. Hours and credit to be arranged and approved by the Head of the Department. Hamilton, Noble, Brooker.

As. 514.—Advanced Marketing of Agricultural Products. 2 hours and 2 hours laboratory. 3 credits. Hamilton.

Study of private and cooperative agencies engaged in marketing agricultural products and commodities.

AGRICULTURAL ENGINEERING

Ag. 501-502.—Seminar. 1 hour. 2 credits. Rogers.

Discussion of agricultural engineering problems and review of literature.

Required of all graduate students registered in the Department.

Ag. 503-504.—Research. 6 hours. 6 credits. Rogers.

Special problems in agricultural engineering.

AGRONOMY

Ay. 500.—Plant Breeding. 3 hours. 3 credits. Senn.

Variation and inheritance in plants and the application of genetic principles to plant improvement. Sterility, hybrid vigor, inbreeding, pure lines, disease resistance, chromosomal variations and the newer cytological approach into genetical investigations are subjects considered.

Prerequisite: Ay. 309.

Ay. 501-502.—Seminar. 1 hour. 2 credits. Bryan and Senn.

Discussion and review of current literature dealing with soils and crops.

Ay. 503.—Chemistry of Plant Growth. 2 hours and 5 hours laboratory. 4 credits. Leukel.

A study of biochemical principles and changes involved in the growth of plants as affected by structure, age, environment, and plant functions; preparation of plant material and methods of plant analysis.

Prerequisites: Ay. 302, Cy. 305.

Given in alternate years. Offered in 1932-1933.

Ay. 504.—Soil Development and Classification. 2 hours and 2 hours laboratory. 3 credits. Bryan.

Origin, nomenclature and classification of soil materials; effect of climate, vegetative cover, and parent material on the development of the soil profile; basis of soil classification, mapping and utilization; soil groups and genetic types of the world.

Prerequisite: Ay. 301.

Ay. 505-506.—Special Problems in Soils and Crops. 2 to 5 credits. Bryan, Senn, and staff.

Ay. 507.—Soils of Florida. 2 hours and 2 hours laboratory. 3 credits. Bryan.

The origin and development of Florida soils and their stage of development in relation to the soil groups and types of the world; soil series, types and regions in relation to plant growth; comparative value of the major soils of Florida.

Prerequisite: Ay. 301.

Given in alternate years. Offered in 1932-1933.

Ay. 508.—Methods of Crop Investigation. 2 hours. 2 credits. Senn.

Field plot technic, statistical analysis of data based on biometrical methods; consideration of environmental factors influencing experimental results.

Prerequisite: Ay. 201.

Ay. 509.—Biometrical Methods. 2 hours. 2 credits. Hull.

The theory and application of statistical methods in biological research; survey of standard methods followed by practice in designing basic and efficient experiments in plant and animal investigation.

Prerequisite: Ay. 508.

Given in alternate years. Not offered in 1932-33.

Ay. 510.—Soil Biology. 2 hours and 2 hours laboratory. 3 credits. Bryan.

The microorganisms of the soil and their effect on weathering and solution of minerals; biochemical changes and transformation of the carbon and nitrogen compounds in the soil; factors affecting the accumulation of organic matter in relation to soil management.

Prerequisites: Ay. 301, Bty. 302.

Given in alternate years. Not offered in 1932-33.

Ay. 511.—Soil Analysis. 1 hour and 5 hours laboratory. 3 credits. Barnette.

Methods of total and partial analysis of soils and technic in soil research; physical, chemical and biological principles involved; quantitative methods of measuring soil reaction, replaceable bases and carbon.

Prerequisites: Ay. 301, Cy. 305.

Ay. 513.—Soil Utilization. 3 hours. 3 credits. Bryan.

The soil resources of the world, as related to the welfare of nations; soil regions and civilization; characteristics, modifications, and utilization of soils; factors determining the value of soils for crops; forests, parks, and pastures.

Prerequisite: Ay. 301.

Given in alternate years. Not offered in 1932-33.

Ay. 514.—Advanced Soils. 2 hours and 3 hours laboratory. 3 credits.
Barnette.

The organic and inorganic components of the soil and their physico-chemical properties, including the origin, nature and significance of soil colloids, replaceable bases; reaction, and solubility of minerals as related to plants.

Prerequisite: Ay. 511.

ANIMAL HUSBANDRY

Al. 501-502.—Animal Production. Hours as arranged. 6 credits. Willoughby.

Problems in the production of domestic animals; development of types and breeds; management of herds; research on selected topics.

Al. 503-504.—Animal Nutrition. 3 hours. 6 credits. Becker.

Relative composition of feeds; digestion in ruminants; development of feeding standards; protein, energy, vitamins, and mineral elements in nutrition.

Prerequisite: Cy. 0262.

Given in alternate years. Offered in 1932-1933.

Al. 505-506.—Live Stock Records. Hours as arranged. 4 credits.
Willoughby.

History of live stock in the South; methods of breed associations; research on selected topics.

ARCHAEOLOGY

Agy. 501-502.—Roman Archaeology. 3 hours. 6 credits. Simonds.

Acceptable as a minor for those majoring in Greek or Latin.

ARCHITECTURE

Ae. 501-502.—Architectural Design. 18 hours drafting and research.
12 credits. Weaver and staff.

Research on some special phase of architectural design which shall be selected by the student with the approval of the Director.

Prerequisite: Ae. 402.

Laboratory fee: \$5 per semester.

Ae. 521-522.—Advanced Freehand Drawing. 6 hours studio. 4 credits.
Mittel.

Prerequisite: Ae. 321.

Laboratory fee: \$5 per semester.

Ae. 525-526.—Advanced Water Color. 6 hours studio. 4 credits.
Spencer.

Outdoor sketching from nature. Advanced architectural rendering.

Prerequisite: Ae. 326.

Laboratory fee: \$5 per semester.

Ae. 531-532.—Historical Research. 2 hours. 4 credits. June, Stageberg.

Research on some historical phase or phases of architecture and allied arts which shall be determined by the student in consultation with his advisors.

Prerequisite: Ae. 332.

Ae. 551-552.—Building Construction. 2 hours. 4 credits. June and others.

Research on various types of building materials, their methods of and fitness for use in various parts of the country, with advancement of some original theories in connection with such subjects.

Prerequisite: Ae. 352 and 465.

BIOLOGY

Bly. 501-502.—Current Literature of Biology. 1½ hours. 2 credits. Staff.

An informal Journal Club that meets once a week to review some of the current biological journals and books.

Required of all graduate students majoring in biology. Undergraduate assistants are expected to take part without credit.

Bly. 503.—Advanced General Biology. 2 hours and 1 hour discussion section. 3 credits. Rogers.

The fundamental theories and concepts of biology are discussed from the standpoint of the advanced student, with emphasis on the objects and methods of modern biological research. Collateral readings and reports required.

Prerequisites: an undergraduate major in biology, including Bly. 0201 or 0202 or 311, or their equivalents.

Required of all graduate students majoring in biology.

To be accompanied by Bly. 505, and followed by Bly. 506, 516, or 518.

Bly. 505.—History of Biology. 2 hours. 2 credits. Rogers.

An outline of the development of the modern content and theories of biology.

Prerequisites: Bly. 104, 106, 0201 or the equivalents.

Bly. 506.—Zoological Classification and Nomenclature. 1 hour and 8 hours laboratory work. 5 credits. Rogers, Hubbell, Sherman, Byers or Giovannoli.

An approved group of animals is studied under the direction of one of the members of the department as an illustration of the biological and taxonomic problems involved in animal classification.

Prerequisite: Bly. 503.

Laboratory fee: \$5.

Bly. 516.—Advanced Morphology. 1 hour and 8 hours laboratory work. 5 credits. Hubbell, Sherman, or Byers.

Morphological studies on a species or group of animals are made under the direction of one of the above members of the department, as an illustration of the principles of morphology and an introduction to methods of research in this field.

Prerequisite: Bly. 503.

Laboratory fee: \$5.

Bly. 518.—Bionomics. 1 hour and 8 hours laboratory. 5 credits. Rogers, Hubbell, Sherman, Byers.

A species or group of local animals is studied from the standpoint of ecology or life history under the direction of one of the members of the department, as an illustration of the problems involved in a consideration of the relations of animals to their environments.

Prerequisite: Bly. 503.

Laboratory fee: \$5.

Bly. 519-520.—Individual Problems in Animal Biology. Hours to be arranged. Thesis required.

All applicants for the Master's degree are required to undertake some approved individual problem in biology, the results of which will be embodied in a Master's thesis. Such problems will be carried out under the direction of one of the members of the staff. Problems may be chosen from one of the following fields: vertebrate or invertebrate morphology or embryology; classification or taxonomy of certain approved groups; natural history or distribution of a selected group of local animals; investigations of animal habitats in the Gainesville area.

Prerequisite: An approved major in biology.

Laboratory fee: \$5.

BOTANY AND BACTERIOLOGY

BOTANY

Bty. 501-502.—Problems in Taxonomy. Hours to be arranged. Research. 8 to 10 credits. Cody.

Laboratory fee: \$5.

Bty. 503-504.—Problems in Plant Physiology. 10 credits. Cody, Camp, and Stahl.

Nutrition, Assimilation, etc.

Laboratory fee: \$5.

Bty. 505-506.—Problems in Plant Histology. 8 to 10 credits. Cody.

Comparative methods in killing, fixing, sectioning, and staining plant tissues.

Laboratory fee: \$5.

Bty. 508.—Problems in Plant Anatomy. 8 credits. Hours to be arranged. Cody.

Critical study made of certain plant tissues and organs.

Laboratory fee: \$5.

BACTERIOLOGY

Bcy. 501-502.—Problems in Soil Bacteriology. Hours to be arranged. 8 to 10 credits. Carroll.

Research.

Laboratory fee: \$5.

Bcy. 503-504.—Problems in Dairy Bacteriology. Hours to be arranged. 8 to 10 credits. Carroll.

Research.

Laboratory fee: \$5.

Bcy. 505-506.—Problems in Pathogenic Bacteriology. Hours to be arranged. 8 to 10 credits. Carroll.

Research.

Bcy. 507-508.—Problems in Water Bacteriology. Hours to be arranged. 8 to 10 credits. Carroll.

Research.

Laboratory fee: \$5.

CHEMISTRY

Cy. 501.—Organic Preparations. 9 hours laboratory or its equivalent. 3 credits. Leigh.

The preparation of some typical compounds. Occasional discussions of principles and theories. A reading knowledge of French and German is desirable.

Laboratory fee: \$5.

Cy. 504.—Inorganic Preparations. 9 hours laboratory or its equivalent. 3 credits. Leigh.

Laboratory work involving the preparation of a number of typical inorganic compounds in addition to collateral reading and discussions. A reading knowledge of French and German is desirable.

Laboratory fee: \$5.

Cy. 505.—Organic Nitrogen Compounds. 3 hours. 3 credits. Ellis.

Special lectures and collateral reading relative to the electronic and other theoretical conceptions of organic compounds containing nitrogen. Explosives, pseudo acids, certain dyes, alkaloids, proteins, etc.

Given alternate years. Offered in 1931-1932.

Cy. 506.—Special Chapters in Organic Chemistry. 3 hours. 3 credits.
Pollard.

Lectures and collateral reading. In general, topics to be studied will be chosen from the following list: stereochemistry, tautomerism, the configuration of the sugars, acetoacetic ester syntheses, malonic ester syntheses, the Grignard reaction, benzene theories, diazo compounds and dyes.

Given in alternate years. Offered in 1932-1933.

Cy. 508.—Synthesis and Structure of Organic Compounds. 3 hours.
3 credits. Pollard.

A study of fundamental reactions for synthesizing organic compounds and proving their structures.

Given alternate years beginning 1933-1934.

Cy. 509.—Electrochemistry. 3 hours or its equivalent. 3 credits.
Jackson.

A theoretical study of the applications of electrochemical principles.

Given in alternate years. Offered in 1932-1933.

Cy. 0513.—Colloid Chemistry. 2 hours and 3 hours laboratory. 3 credits. Beisler.

The theories, practice and applications of colloid chemistry.

Laboratory fee: \$5.

Given in alternate years. Offered in 1931-1932.

Cy. 516.—Chemistry of the Rare Elements. 3 hours. 3 credits. Heath.

Deals with the mineral occurrences, preparation, properties, and uses of the rarer elements and their compounds. Relations to the more common elements will be clearly shown as well as methods for separation and purification.

Given in alternate years. Offered in 1932-1933.

Cy. 519.—Atomic Structure. 3 hours or its equivalent. 3 credits.
Black.

Special lectures and collateral reading dealing with modern theories of the structure of the atom. The Journal literature is largely used as the basis of study.

Given in alternate years. Offered in 1932-1933.

Cy. 525-0525.—Chemistry of the Terpenes. 3 hours. 3 credits. Ellis.

A study of hydroaromatic compounds, including the terpenes and their derivatives.

Cy. 526.—Chemistry of the Terpenes. 3 hours. 3 credits. Ellis.

A continuation of Cy. 525.

Cy. 531.—Advanced Qualitative Analysis. 9 hours laboratory or its equivalent. 3 credits. Jackson.

Systematic laboratory study of the qualitative reactions for the detection and confirmation of rare and precious elements.

Laboratory fee: \$5.

Cy. 533.—Advanced Quantitative Analysis. 9 hours laboratory or its equivalent. 3 credits. Black.

The application of physico-chemical methods to quantitative analysis. Electro-metric titrations. Nephelometry. Colorimetry. Emphasis is placed upon instrumental methods.

Laboratory fee: \$5.

Given in alternate years. Offered in 1931-1932.

Cy. 537.—Qualitative Organic Chemistry. 1 hour and 6 hours laboratory. 3 credits. Pollard.

Deals with the methods of identifying organic compounds.

Laboratory fee: \$5.

Cy. 538.—Quantitative Organic Chemistry. 9 hours laboratory or its equivalent. 3 credits. Pollard.

Ultimate analysis of organic compounds, chiefly by combustion.
Laboratory fee: \$5.

Cy. 542.—Catalysis. 3 hours. 3 credits. Beisler.

The theories and applications of catalysis with special reference to the use of catalytic agents in industries.

Given in alternate years. Offered in 1932-1933.

Cy. 551-552.—Chemical Research. Required of those majoring in chemistry. Leigh, Black, Beisler, Heath, Jackson, Pollard, and Ellis.

Prerequisite or corequisite: Cy. 481 (Chemical Literature).

ECONOMICS

Es. 505.—The Development of Economic Thought. 3 hours. 3 credits. Eldridge.

The development of economic thought; careful analysis of the theories of the various schools of economic thought; study of the Physiocrats, Mercantilism, the Classical Economist, the leading economists of the Austrian School, and a brief survey of the beginnings of Socialism; the development of theoretical background for research and graduate work of an advanced nature.

Required of all candidates for the master's degree in this department.

Es. 506.—The Development of Economic Thought, continued. 3 hours. 3 credits. Eldridge.

Analysis of the thought of the followers and defenders on the one hand and of the abler critics on the other of the Classical Economists; appraisals of recent contributions of the various schools in formulating a system of economic analysis.

Required of all candidates for the master's degree in this department.

Es. 528.—International Finance. 3 hours. 3 credits. Dolbeare.

Discussion, reports, and lectures concerning the causes, nature, and significance of financial relations among nations, and the evolution of the banking and financial institutions in selected foreign countries.

Es. 530.—Problems in State and Local Taxation. 3 hours. 3 credits. Bigham.

An intensive study of the problems of state and local taxation primarily related to the following taxes: general property, income business, inheritance, and commodity.

Es. 563-564.—Seminar in Statistics and Business Forecasting. 3 hours. 6 credits. Anderson.

Critical study of special problems in statistics and business forecasting.

Es. 568.—Special Studies in Risk and Risk-Bearing. 3 hours. 3 credits. Dykman.

A study of the theory of risks; special studies in the ways of dealing with risks through insurance, hedging, investment trusts, security markets; social aspects of risk-bearing.

Open to selected seniors with approval of instructor and head of department.

Es. 589.—Geographic Factors Underlying World Economy. 3 hours. 3 credits. Atwood.

A lecture and research course stressing the geographic factors that affect the industrial and commercial development of the leading countries of the world. Students will be required to select subjects for intensive study and make formal reports.

EDUCATION

En. 501.—The Elementary School Curriculum. 3 hours. 3 credits.

Cooper.

An intensive study of the development and present content of the elementary school curriculum, including the kindergarten; the selection and evaluation of material.

En. 503.—Seminar in Educational Measurements. Fee, \$1.50. 2 credits. Crago.

Students will be guided in the investigation of educational problems involving measurement, diagnostic and remedial measures. The course is primarily for graduate students with experience in residence or in the field.

En. 504.—The School Survey. 3 hours. 3 credits. Fulk, Crago, Simons.

En. 506.—Methods of Teaching Farm-Shop Work. 2 hours. 2 credits. Garris.

The selection and organization of subject matter, the selection of equipment, and the methods of teaching farm-shop jobs. Offered as demands arise and during the summer school.

En. 507.—Seminar in Educational Psychology. 3 hours. 3 credits. Crago.

Students will be guided in the investigation of problems in directed learning, individual differences, and adjustment of problem children. Primarily for graduate students with experience in residence or in the field.

En. 508.—Democracy and Education Seminar. 3 hours. 3 credits. Norman.

The nature of experience, the nature of institutions, the social inheritance, the individual, society, socialization, social control, dynamic and static societies, education its own end.

En. 509.—Problems in the Administration of a School System. 3 hours. 3 credits. Fulk.

Given in summer session.

Problems selected to meet individual needs; each student selects some problem for special study and presents the results of his study in the form of a thesis.

Prerequisite: En. 401 or its equivalent or administrative experience.

En. 510.—The History of Education. 3 hours. 3 credits. Fulk.

An attempt to evaluate present-day education by tracing its dominant factors—the teacher, the student, the curriculum, the educational plant, the means of control and support—back to their beginnings; and to point out present tendencies and possible developments.

En. 511.—Methods and Materials in Vocational Agriculture. 3 hours. 3 credits. Garris.

The selection and organization of subject matter from the vocational point of view. Offered when demand arises and during the summer school.

En. 512.—Methods and Materials in Vocational Agriculture. 3 hours. 3 credits. Garris.

A continuation of Education 511.

En. 518.—Special Problems in High School Organization and Administration. 3 hours. 3 credits. Fulk.

This course will consist of an intensive study of specific problems in organizing and administering the modern high school. Special reference will be made to Florida. Prerequisite: En. 408.

En. 519.—High School Curriculum. 3 hours. 3 credits. Cooper.

The problems of the curriculum of the high school in its organization; standards for the selection of the curriculum; factors to be considered—age of pupils, social standing, probable school life, probable vocation; traditional subjects and their possible variations; new subjects and their values, systems of organization, election and prescription; problems of articulation with the elementary school, the college, the vocational school, and the community.

En. 521.—Business Administration of a School System. 3 hours. 3 credits. Fulk.

Problems concerned with the procuring and spending of revenue; a thesis on a special problem.

Prerequisite: Wide administrative experience.

En. 527.—Research and Thesis Writing. 1 hour. No credit. Fulk.

Designed primarily to help graduate students in education in writing their theses. Required of all students majoring in education; open to all graduate students.

En. 528.—Supervision. 3 hours. 3 credits. Mead.

A graduate course in the supervision of instruction.

En. 541.—Control and Support of Public Education. 3 hours. 3 credits. Fulk.

State, federal and other agencies of control and support of education in the United States; world-history background; present tendencies and possible developments. Saturday class; planned primarily for teachers in service.

En. 542.—The Curriculum and the Educational Plant. 3 hours. 3 credits. Fulk.

Present status of curriculum and plant and their relation in all types of schools, viewed in the light of their historical development; a world view with emphasis on present tendencies in the United States.

En. 543.—The Teacher and the Learner. 3 hours. 3 credits. Fulk.

Some outstanding teachers, including educational theorists, philosophers, reformers and statesmen and their students; the training and professionalizing of the teacher; the spread, compulsion and extension of education and its relation to world revolutions.

En. 544.—Constitutional and Legal Basis of Public School Administration. 2 hours. 2 credits. Simmons.

Special emphasis will be given to Florida conditions, school laws, constitutional provisions, judicial decisions, Attorney General's rulings, and regulations of the State Board of Education. Students will be required to prepare a semester report dealing with some special field of school law. Only graduate students with experience in administration and supervision will be admitted.

Not offered in 1932-1933.

En. 562.—Guidance and Counseling. 2 credits. Crago.

The course will include a study of guidance and counseling of high school students. Educational and vocational guidance and problems of personality adjustment will be considered.

En. 565-566.—Problems in Agricultural Education. Seminar. 3 hours. 6 credits. Garris.

Designed for graduate students who are qualified to select and pursue advanced problems. Problems will be selected to suit individual needs and the results of the study will be reported in the form of term papers. The class will meet for three hours every other Saturday during both semesters.

En. 567-568.—Problems in Agricultural Education. Seminar. 3 hours. 6 credits. Garris.

Similar to **En. 565-566** in organization and offered in alternate years with it.

En. 569.—Problems in Organizing Part-time and Evening Classes. 6 hours. 3 credits. Garris.

The class will organize and teach a part-time or evening class in vocational agriculture in the Alachua community. Offered only in the summer school.

En. 603.—Foundations of Method. 3 hours. 3 credits. Norman.

The improvement of college and high school teaching. Open to graduate students and members of the university faculty who care to enroll.

En. 605-606.—Seminar in Public School Administration. 3 hours. 6 credits. Fulk.

Prerequisites: **En. 504** or **521** and **En. 509** or **518**, or permission of instructor.

ENGINEERING

AGRICULTURAL ENGINEERING

Listed under that name.

CHEMICAL ENGINEERING

See Chemistry.

CIVIL ENGINEERING

Cl. 501-502.—Advanced Work in Structural Engineering. 3 hours and 6 hours laboratory. 6 credits. Reed.

This advanced course for graduate students will cover advanced work in the theory, design, and drawing of structures, particularly in connection with buildings.

Prerequisite: **Cl. 403-404**.

Cl. 507-508.—Advanced Work in Municipal Engineering. 3 hours and 3 hours laboratory. 6 credits. Brown.

Study of action and operation of Imhoff sewage disposal plant of the university. Physical, biological, bacteriological, and chemical observations to determine efficiency and economy of various methods of operation and improvements in operation to increase the same.

Prerequisite: **Cl. 409**.

Cl. 509-510.—Advanced Work in Municipal Engineering. 3 hours and 6 hours laboratory. 6 credits. Brown.

A course supplementing **Cl. 507-508** covering similar investigations in connection with septic tanks.

ELECTRICAL ENGINEERING

El. 501-502.—Advanced Experimental Electrical Engineering. Variable credit. Weil and staff.

Experimental investigation on electrical apparatus.

Prerequisite: Not less than 9 credits in electrical engineering theory and electrical engineering laboratory work.

El. 503.—Advanced Electrical Theory. 3 hours. 3 credits. Weil.

Laws of the electric and magnetic circuit; transient phenomena.

Prerequisite: **El. 311**.

El. 504.—Electric Measurements. 2 hours laboratory. 4 credits. Weil and staff.

Theory and practice of the measurements of electrical quantities with particular attention to measurements in alternating current circuits.

Prerequisite: **El. 401**.

El. 505-506.—Advanced Course in Radio Engineering. 3 hours. 6 credits. Weil.

High frequency circuits and apparatus.

Text: Morecroft—*Principles of Radio Communication*, and assigned reading.

Prerequisite: **El. 305**.

El. 507-508.—Radio Engineering Laboratory. 4 laboratory hours. 4 credits. Weil and staff.

Laboratory work to accompany **El. 505-506.**

El. 509.—Electric Power Plant Design. 3 hours. 3 credits. Weil.

The relation of various machines in the power plant to one another, switchgear, control apparatus, selection of types of units, construction problems. A part of this course includes the design of the electrical end of a power plant.

Prerequisite: **El. 401.**

Text: Tarboux—*Electric Power Equipment*, and outside reading.

El. 510.—Electric Transmission Line Theory. 3 hours. 3 credits. Weil.

A study of the theory of transmission line circuits.

Prerequisite: **El. 401.**

MECHANICAL ENGINEERING

MI. 501-502.—Advanced Mechanical Design. 6 hours laboratory. 6 credits. Price.

The design of some machine with critical attention to some phase thereof, usually accompanied by laboratory work illustrative of the application of theory or behavior of materials under assumed special working conditions.

MI. 503-504.—Mechanical Research. 6 hours laboratory. 6 credits. Yeaton.

An experimental study of a mechanical engineering project, acceptable to the Department. Design and construction of apparatus. Operation of tests. Collection of data and presentation of results in a report.

Prerequisites: **MI. 320; MI. 411.**

Laboratory fee: \$5 and cost of materials.

ENGLISH

Eh. 501-502.—American Literature. 3 hours. 6 credits. Farris.

A study of the prose and poetry of America as influenced by the historical background, and of the English and continental literary movement. Extensive reading, report and discussion.

Eh. 503-504.—The novel. 3 hours. 6 credits. Farr.

This course centers in the study of both the historical development and the technique of the English and American novel, but with attention directed to the European movements.

Eh. 505-506.—The Renaissance in England. 3 hours. 6 credits. Caldwell.

A study of sixteenth and seventeenth century literature as directly and indirectly influenced by the Renaissance.

Eh. 507-508.—Contemporary Drama, Novel and Poetry. 3 hours. 6 credits. Robertson.

A survey of the English and American fields and their connection with European movements.

Eh. 509-510.—Middle English. 3 hours. 6 credits. Robertson.

Extensive study of the Chaucerian and earlier texts, from both the linguistic and literary points of view.

Eh. 511-512.—Anglo-Saxon. 3 hours. 6 credits. Farr.

Anglo-Saxon grammar; reading of selections in Bright's *Anglo-Saxon Reader*; the *Beowulf*.

NOTE: For those majoring in English, the foreign language requirement is either French or German.

ENTOMOLOGY

Ey. 501-502.—Research. Course in special laboratory, insectary, and field methods. 3 hours. 6 credits. Creighton.

A survey of the leading problems and methods in certain laboratories; practice in the more complicated methods of research will be undertaken.

Ey. 503-504.—Problems in Entomology. 3 hours. 6 credits. Creighton.

Problems in the various phases of entomology, as shall be selected on approval of the instructor in charge. Required of graduate students registered for degrees in the department.

Ey. 505-506.—Advanced Insect Histology. 3 hours. 6 credits. Creighton.

A course in the outstanding histological methods used in the handling of insect tissues.

Ey. 507-508.—Advanced Insect Taxonomy. 3 hours. 6 credits. Creighton.

The collection, study, and classification of local economic insects down to families. In some one group the individuals will be traced down to the genus and species.

Ey. 509-510.—Advanced Insect Embryology. 3 hours. 6 credits. Creighton.

Ey. 511-512.—Thesis Research. No credit in hours.

Required of all students majoring in Entomology.

FRENCH

Fh. 505-506.—The French Novel. 3 hours. 3 credits each semester. Atkin.

Evolution of the novel from the seventeenth century to the present, with special emphasis on the nineteenth century; reading of representative novels; reports.

Fh. 507-508.—Special Study in French Literature. 3 hours. 3 credits each semester. Atkin, Brunet.

Individual reading and reports under supervision of the instructor, on selected topics in the field of French literature from the sixteenth century onward.

GERMAN

Gn. 501.—Gothic. 6 credits. Crow.

An introduction to the scientific study of the Germanic languages. Textbooks: J. Wright, *Grammar of the Gothic Language*; W. Streitberg, *Gotisches Elementarbuch*.

Prerequisite: A reading knowledge of German. Some knowledge of Latin or Greek highly desirable.

Gn. 502.—Old High German. 6 credits. Crow.

An introductory course. Intensive study of grammar. Reading of selections. Textbooks: W. Braune, *Althochdeutsche Grammatik* and *Althochdeutsches Lesebuch*.

Prerequisite: Some knowledge of Gothic, not indispensable, but very helpful.

Gn. 503-504.—Middle High German. 6 credits. Crow.

Grammar. Readings.

Gn. 505-506.—Special Studies in German Literature. 6 credits. Crow.

Contemporary Authors.

GREEK

- Gk. 501-502.—Homer.** 3 hours. 6 credits. Anderson.
All the *Iliad* and *Odyssey*, and selections from allied Poets.
- Gk. 503-504.—Historians, Herodotus and Thucydides.** 3 hours. 6 credits. Anderson.

HISTORY

- Hy. 501-502.—American History, 1492-1830.** 3 hours. 6 credits. Leake.
Given in 1933-34.
- Hy. 503-504.—American History, 1830 to the Present.** 3 hours. 6 credits. Leake.
Given in 1932-33.
- Hy. 505-506.—English History.** 3 hours. 6 credits. Payne.
Given in 1932-33.
- Hy. 507-508.—The Renaissance and the Reformation.** 3 hours. 6 credits. Leake.
Given in 1933-34.
- Hy. 509-510.—Seminar in American History.** 6 credits. Leake.
Given in 1932-33.

HORTICULTURE

- He. 503-504.—Horticulture Seminar.** 1 hour. 2 credits. Floyd, Abbott.
A study of current horticultural literature and practice; assigned topics and discussion.
- He. 505-506.—Horticultural Problems.** 2 hours. 4 credits. Lord.
A critical study of advanced problems in horticulture as given in recent literature; methods used in experimental horticulture; results of experiments and their application.
- He. 507-508.—Research Work.** 3 hours. 6 credits. Floyd, Lord and Abbott.
Specific problems in horticulture.
- He. 509-510.—Problems in Refrigeration.** Hours and credits to be arranged. Floyd and Camp.

JOURNALISM

- Jm. 503-504.—Special Studies in Newspaper Production.** 3 hours. 6 credits. No credit toward a degree will be allowed until the entire 6 credits are earned. Lowry.
- Jm. 505-506.—Special Studies in Public Opinion.** 3 hours. 6 credits. No credit toward a degree will be allowed until the entire 6 credits are earned. Emig.

LATIN

- Ln. 501-502.—Cicero and the Ciceronian Age.** 3 hours. 6 credits. Anderson.
Based mainly on the Ciceronian Correspondence.

- Ln. 505.—Virgil.** 3 hours. 3 credits. Anderson.
Mainly the *Bucolics* and *Georgics*.
- Ln. 506.—Poetry of the Silver Age.** 3 hours. 3 credits. Simonds.
Selections from Manilius, Lucan, Valerius Flaccus, Statius, Silius Italicus and Claudian. Study of the technique of these poets and their influence on modern literature.
- Ln. 507.—Ovid.** 3 hours. 3 credits. Anderson.
Mainly *Heroides* and *Fasti*.
- Ln. 508.—The Roman Satire.** 3 hours. 3 credits. Anderson.
Mainly Horace and Juvenal.

MATHEMATICS

Not all of the courses are given each year. The textbooks listed are subject to change without notice. Prerequisites to the courses should be determined by consultation with the instructor.

- Ms. 511-512.—Introduction to Higher Algebra.** 3 hours. 6 credits. Simpson.

A more advanced course in the subject, based upon the work of Boëher, whose *Introduction to Higher Algebra* is used as a textbook.

- Ms. 518.—Theory of Groups of Finite Order.** 3 hours. 3 credits. Simpson.

An introduction to the group concept, a treatment of the pure group-theory, and numerous examples and applications. Textbook: Hilton, *Finite Groups*.

- Ms. 521-522.—Practical Graphing and Curve Fitting.** 3 hours. 6 credits. Germond.

Graphical presentation of data; selection and smoothing of data; method of least squares; theory of probability; empirical formulas; development and use of special graph papers; graphic calculus.

- Ms. 531-532.—The Theory of Approximation.** 3 hours. 6 credits. Phipps.

A study of the practical methods of obtaining approximate solutions of problems which are difficult, or impossible to solve completely, together with the underlying theory.

Main text: Scarborough, *Numerical Mathematical Analysis*.

- Ms. 534.—Projective Geometry.** 3 hours. 3 credits. Kokomoor.

Pure geometry dealing primarily with properties unaltered by the processes of projection and section; principal theorems involved; theory of poles, polars, involution, and kindred topics. Textbook: Holgate, *Projective Pure Geometry*.

- Ms. 536.—Foundations of Geometry.** 3 hours. 3 credits. Kokomoor.

An investigation of the assumptions of geometry; the parallel postulate-steps leading to Non-Euclidean geometries; consequent development of modern branches of the subject. Textbook: Carshaw, *The Elements of Non-Euclidean Plane Geometry and Trigonometry*.

- Ms. 540.—Fourier Series and Harmonic Analysis.** 3 hours. 3 credits. Dostal.

The use of series of terms involving sines and cosines in the solution of physical problems such as those relating to the flow of heat, conduction of electricity, and vibrating strings. Textbook: Carshaw, *Introduction to the Theory of Fourier's Series and Integrals*.

Ms. 542.—Heaviside Operational Calculus. 3 hours. 3 credits. Dostal.

Introduced by an elementary exposition of the solution of differential equations by classical operational methods, followed by treatment of the Heaviside Operational Theory, with applications mainly to electrical circuit theory. Textbook: Berg, *Heaviside's Operational Calculus*.

Ms. 551-552.—Advanced Topics in Calculus. 3 hours. 6 credits.

Kokomoor.

Topics of advanced nature selected from the calculus, including partial differentiation, Taylor's theorem, infinite series, continuation of simple multiple integrals, line and surface integrals, Green's theorem, etc. Textbook: Osgood, *Advanced Calculus*.

Ms. 555.—Functions of a Complex Variable. 3 hours. 3 credits.

Phipps.

Fundamental operations with complex numbers; differentiation and integration theorems; mapping transformation-series. Textbook: Townsend, *Functions of a Complex Variable*.

Ms. 559-560.—Functions of Real Variables. Numbered 500-501 in 1929-1930. 3 hours. 6 credits. Simpson.

The real number system; theory of point sets; rigorous investigation of many questions arising in the calculus; Lebesgue integral; infinite series. Textbook: Townsend, *Functions of Real Variables*.

Ms. 568.—History of Elementary Mathematics. 3 hours. 3 credits.

Kokomoor.

A survey of the development of mathematics through the calculus, with special emphasis upon the changes of the processes of operations and methods of teaching. No specific text is followed, but numerous works are used as references.

Ms. 575.—Fundamental Concepts of Modern Mathematics. 3 hours. 3 credits. Simpson.

An introduction to such topics as the number system of algebra, sets of points, group theory, theories of integration, postulational systems, and non-Euclidean geometry. No textbook is used, but many references are assigned.

PHARMACOGNOSY AND PHARMACOLOGY

PHARMACOGNOSY

Pgy. 501.—Advanced Histology and Microscopy of Vegetable Drugs.

2 hours and 4 hours laboratory and field work. 4 credits. Christensen.

Plant tissues and cell inclusions of importance as diagnostic characters. Detection of adulterations and substitutions and pharmacognostical description of new plants.

Laboratory fee: To be arranged.

Pgy. 521-522.—Special Problems in Pharmacognosy. 2 to 3 hours and 4 to 14 hours laboratory. 4 to 10 credits. Christensen.

Identification, classification, and qualitative determination of constituents and properties of drug plants; special experiments in the propagation, cultivation, harvesting and curing of native and exotic plants; field work in the collecting of drug plants native to Florida.

Pgy. 525-526.—Drug Plant Analysis. 2 to 3 hours and 8 to 14 hours laboratory and field work. 6 to 10 credits. Christensen.

Special problems in drug culture and in the isolation and identification of plant constituents. The effect of climatic and soil features on plant constituents. Pharmacognostical characteristics of new plants.

Laboratory fee: To be arranged.

Pgy. 533-534.—Seminar in Pharmacognosy. 2 to 8 credits. Christensen.

Sources of information on crude drugs and a study of current plant literature. Special written and oral reports.

Pgy. 551-552.—Pharmacognosy Research. Christensen.

Required of those majoring in Pharmacognosy.

PHARMACOLOGY

Ply. 512.—Advanced Pharmacology. 2 hours and 4 hours laboratory. 4 credits. Christensen.

Theories of drug action. A comparison of methods of physiological assaying with applications to evaluation of drugs and medicines.

Laboratory fee: To be arranged.

Ply. 551-552.—Special Problems in Pharmacology. 2 to 3 hours and 4 to 14 hours laboratory. 4 to 10 credits. Christensen.

A comparison of methods of biological assaying. Special lectures, collateral reading, laboratory experiments, oral and written reports.

Ply. 555-556.—Pharmacological Testing. 1 to 3 hours and 2 to 10 hours laboratory. 2 to 8 credits. Christensen.

Determination of the therapeutic properties of drugs by means of animal experimentation, using special types of recording apparatus.

Ply. 571-572.—Pharmacology Research. Christensen.

Required of those majoring in pharmacology.

PHARMACY

Phy. 502.—Selected Topics in Pharmacy. 2 hours. 2 credits. Husa.

A general study of the newer types of pharmaceuticals, such as vitamin preparations, newer solvents, etc., with assigned readings on selected problems of current interest.

Phy. 503.—Advanced Pharmacy. 2 hours. 2 credits. Husa.

Lectures and assigned readings on important pharmaceutical preparations, particularly those involving chemical changes.

Phy. 504.—Advanced Galenical Pharmacy. 2 hours. 2 credits. Husa.

A detailed study of the fundamental research work on which formulas for various galenicals are based.

Phy. 541.—Manufacturing Pharmacy. 2 hours. 2 credits. Husa.

A general study of the apparatus and processes used in the manufacture of pharmaceuticals on a factory scale. A detailed study of selected technical problems of current interest to those engaged in pharmaceutical manufacturing.

Phy. 553.—Synthetic Pharmaceuticals. 2 hours. 2 credits. Foote.

The preparation and chemotherapy of the more complex synthetic remedies.

Prerequisite: Phy. 354.

Phy. 554.—Advanced Pharmacy. 2 hours. 2 credits. Foote.

Lectures and assigned reading on the pharmacy and chemistry of vegetable drugs.

PHILOSOPHY

Ppy. 501-502.—Advanced Logic, Seminar. 2 hours. 6 credits. No credit will be given toward a degree until credit is earned in both semesters' work. Enwall.

Theories of Thought and Knowledge.

Readings from the original sources. Papers for discussion.

Prerequisites: **Ppy. 205, 303, 304.**

Given with **Ppy. 505** and **506** in alternate years.

Not offered in 1932-33.

Ppy. 503-504.—Advanced History of Philosophy. 3 hours. 6 credits. No credit will be allowed toward a degree until credit is earned in both semesters' work. Enwall.

The problems of philosophy in their historical development.

Textbook: Windelband, *History of Philosophy*; supplemented by special readings from the original sources.

Prerequisites: **Ppy. 205, 301, 302.**

Ppy. 505-506.—Philosophy of Nature, Seminar. 2 hours. 6 credits. No credit will be allowed toward a degree until credit is earned in both semesters' work. Enwall.

Readings from the original sources. Papers for discussion. Man's relation to nature; the various philosophical doctrines; animism, pantheism, materialism, realism, agnosticism, humanism, idealism, etc.

Prerequisites: **Ppy. 205, 303, 304.**

Given with **Ppy. 501-502** in alternate years.

Offered in 1932-33.

Ppy. 507-508.—Hume and Kant, Seminar. 2 hours. 6 credits. No credit will be allowed toward a degree until credit is earned in both semesters' work. Enwall.

Prerequisites: **Ppy. 205, 301, 302, 303, 304.**

PHYSICS

Ps. 503.—Kinetic Theory of Gases. 3 hours. 3 credits. Williamson.

The elements of the kinetic theory, the application of the theory to gases and liquids, the electrical and magnetic properties of the molecules from the standpoint of the theory.

Ps. 505.—Theoretical Mechanics. 3 hours. 3 credits. Bless.

Statics of systems of rigid bodies. Motions of particles and of rigid bodies under constant and variable forces. Assigned reading, problems, and reports.

Ps. 506.—Advanced Theoretical Mechanics. 3 hours. 3 credits. Bless.

A continuation of **Ps. 405**. Introduction to vector analysis and generalized coordinates.

Ps. 508.—Thermodynamics. 3 hours. 3 credits. Bless.

The laws of Thermodynamics, chemical reactions from the thermodynamical standpoint, Electrochemistry, and the Nernst Heat Theorem.

Ps. 510.—Physical Optics and Spectroscopy. 3 hours. 3 credits. Williamson.

The electro-magnetic theory of light, interference, refraction, and polarization, and the theory of optical instruments and spectroscopy.

Ps. 513-514.—Advanced Experimental Physics. 6 or 8 laboratory hours. 6 or 8 credits. Williamson, Perry, Bless.

A series of experiments on a particular topic of physics, a review of classical experiments, or the development of an assigned experimental problem. The work will be assigned to meet the needs and interests of the particular student.

Laboratory fee: \$5.

- Ps. 517-518.—Modern Physics.** 3 hours. 6 credits. Williamson.
The electronic theory of atomic structure, and the interpretation of the properties of matter and radiation from the standpoint of this theory.
- Ps. 520.—X-ray Laboratory.** 6 laboratory hours. 3 credits. Bless.
Refraction and diffraction of X-rays, crystal analysis, X-ray spectroscopy.
Laboratory fee: \$5.
- Ps. 522.—Electron Physics.** 4 laboratory hours. 2 credits. Perry.
The theory and actual performance of a number of fundamental experiments of "Modern Physics."
Prerequisite: Ps. 311 or its equivalent.
Laboratory fee: \$3.
- Ps. 523-524.—Seminar in Modern Theory.** 2 or 3 hours. 4 or 6 credits. Williamson.
Some particular phase of the most recent developments in theoretical physics is taken up in detail, "Wave Mechanics" being the topics in 1930-1931.
- Ps. 527-528.—Colloquium.** ½ hour. 1 credit. Williamson.
The most interesting papers are selected from the current literature in physics, and these papers are reported upon by the students.
- Ps. 551-552.—Thesis.** Williamson, Perry, Bless.

PLANT PATHOLOGY

- Pt. 501-502.—Research.** 6 hours laboratory. 6 credits. Dickey.
A course in the study of the methods of research employed in the field of plant pathology.
- Pt. 503-504.—Problems in Plant Pathology.** 6 hours laboratory. 6 credits. Dickey.
Problems in the various phases of plant pathology, as shall be selected on approval of the instructor in charge.
Required of graduate students registered for degree in the department.
- Pt. 505-506.—Advanced Mycology.** 2 hours and 2 hours laboratory. 6 credits. Dickey.
An advanced course designed for students who wish to specialize in mycology or plant pathology. An intensive study of the morphology, taxonomy, cytology, and phylogeny of the fungi.
Prerequisite: Pt. 301.

POLITICAL SCIENCE

- Pcl. 501-502.—American Constitutional Law.** 3 hours. 6 credits. Leake.
Given in 1932-33.
- Pcl. 503-504.—International Law.** 3 hours. 6 credits. Tribolet.
Given in 1933-34.
- Pcl. 505-506.—Political Theories.** 3 hours. 6 credits. Tribolet.
Given in 1933-34.
- Pcl. 507-508.—Political Science Seminar.** 6 credits. Tribolet.
Given in 1932-33.
- Pcl. 509-510.—International Relations.** 6 credits. Tribolet.
Given in 1932-33.

POULTRY HUSBANDRY

Py. 501.—Research. 2 hours. 2 credits. Sanborn.

Special problems in poultry husbandry.

Py. 502.—Research. 2 hours. 2 credits. Sanborn.

Special problems in poultry husbandry.

PSYCHOLOGY

Psy. 501-502.—Readings in Experimental Psychology. 3 hours. 6 credits. Hinckley.

Lectures and assigned readings in some of the more important fields of psychological research.

Prerequisites: **Psy. 201, 304.**

Psy. 503.—Studies in Personality. 3 hours. 3 credits. Hinckley.

Lectures and readings in experimental studies of personality. Special attention will be given to the clinical work of the personnel bureau.

Prerequisites: **Psy. 201, 405, 406, Ppy. 303, 304.**

Psy. 505.—Advanced Statistical Methods. 3 hours. 3 credits. Hinckley.

Studies in correlation, regression, and prediction, as applied to psychological measurement.

Prerequisites: **Psy. 201, 405.**

Psy. 506.—Psycho-physical Theory in the Construction of Tests. 3 hours. 3 credits. Hinckley.

The application of psycho-physical theory in the measurement of psychological and social values. Critical discussion of Weber's Law, Fechner's Law, and the Law of Comparative Judgment. Special attention is given to the problems of psychological scale construction and attitude measurement.

Prerequisites: **Psy. 201, 405, 406.**

Psy. 507.—History and Systems of Psychology. 3 hours. 3 credits.

Williams.

A critical survey of the historical development of psychology, with special emphasis on representative writers and the more recent systems and programs.

Prerequisite: **Psy. 201.**

Psy. 508.—Advanced Comparative Psychology. 3 hours. 3 credits.

Williams.

A study of the intelligent and learning capacity of animals, with an attempt to formulate and explain the psychological concepts of reflex, conditioned reflex, instinct, learning, memory, intelligence, thinking, and motivation as problems primarily in nerve physiology.

Prerequisite: **Psy. 201.**

SANSKRIT

St. 501-502.—Elementary Sanskrit. 3 hours. 6 credits. Simonds.

Open only to graduate students. Acceptable as a minor for those majoring in Latin or Greek.

SOCIOLOGY

Sy. 503-504.—Cultural Development of the United States. 3 hours. 6 credits. Bristol.

Prerequisite: Consent of instructor. To be taken in part in connection with **Sy. 303-304.**

Sy. 541-542.—Development of Social Thought. 2 hour seminar. 6 credits. Bristol.

An introduction to social philosophy by a critical and constructive study of representative writers in the field of social theory.

Offered in alternate years. Not offered in 1932-33.

Sy. 551-552.—Social Progress. 2 hour seminar. 6 credits. Bristol.

Theories of social progress. Evaluation of proposed goals and of programs looking to the attainment of these goals.

Offered in alternate years. Given in 1932-1933.

Sy. 561.—Scientific Philanthropy. 3 hours. 3 credits. Bristol.

A critical, constructive study of modern methods of dealing with the socially inadequate. Visit to the agencies in Jacksonville dealing with the handicapped.

Prerequisite: Elementary courses in sociology and economics. To be taken in part in connection with **Sy. 323**.

Not offered in 1932-33.

Sy. 562.—Criminology. 3 hours. 3 credits. Bristol.

A survey of the fields of criminology and penology with a study of the Florida institutions dealing with delinquents.

Prerequisite: **Sy. 323** or consent of instructor. To be taken in part in connection with **Sy. 324**.

Not offered in 1932-1933.

SPANISH

Sh. 501-502.—Old Spanish. 6 credits. Crow.

Spanish Historical Grammar. Readings from XII, XIII and XIV centuries.

Prerequisite: A reading knowledge of Latin.

Sh. 505-506.—Studies in Literature of Golden Age. 6 credits. Crow.

Sh. 507-508.—Studies in Literature of Nineteenth Century. 6 credits. Crow.

VETERINARY SCIENCE

Vy. 501-502.—Poultry Disease Seminar. 1 hour. 2 credits. Shealy and Thomas.

A study of literature pertaining to diseases of poultry; discussion of important phases of poultry disease problems.

Vy. 503-504.—Problems in Poultry Pathology. 3 to 10 credits. Shealy and Thomas.

Special problems in poultry diseases.

Vy. 505-506.—Problems in Animal Parasitology. 3 hours. 6 credits. Shealy and Thomas.

A study of some of the important parasites infecting domestic animals.

Vy. 507-508.—Research in Veterinary Science. 3 hours. 6 credits. Shealy and Thomas.

Specific problems.

FELLOWS AND GRADUATE ASSISTANTS, 1931-32

- Amundsen, Lawrence H., B.S., Fellow in Chemistry
 Birmingham, George W., B.S. in Pharmacy, Graduate Assistant in Pharmacy
 Bogart, John A. C., B.S. in Civil Engineering, Graduate Assistant in Civil Engineering
 Cole, Allen T., B.S., Fellow in Chemistry
 Forsee, William T., A.B., Fellow in Chemistry
 Freeman, Hiram D., B.S. in Agriculture, Graduate Assistant in Agricultural Engineering
 Hawkins, George A., B.S. in Education, Fellow in Chemistry
 Henderson, J. Russell, B.S. in Agriculture, Graduate Assistant in Agronomy
 Hocking, George M., B.S. in Pharmacy, Graduate Assistant in Pharmacognosy
 Jahn, Fred, B.S. in Business Administration, Graduate Assistant in Business Administration and Economics
 Juan, Gervacio E., B.S., Graduate Assistant in Horticulture
 Lindstrom, Evan T., B.S., Graduate Assistant in Physics
 Lynch, Harold J., B.S. in Pharmacy, Graduate Assistant in Pharmacology
 McCracken, Ernest M., A.B., Research Assistant in Bureau of Economics and Business Administration
 Magid, Louis, B.S. in Pharmacy, Graduate Assistant in Pharmacy
 Pearson, Seibert Clinton, B.S., Graduate Assistant in Biology
 Putnam, Howard L., B.S. in Business Administration, Graduate Assistant in Business Administration and Economics
 Richards, Joseph V., B.S. in Business Administration, Research Assistant in Bureau of Economics and Business Research
 Rochester, Morgan C., B.S., Graduate Assistant in Agricultural Economics
 Rowell, John O., B.S., Graduate Assistant in Entomology
 Sansbury, Walter E., B.S., Fellow in Chemistry
 Sparks, Chiles E., A.B., Fellow in Chemistry
 Spurlock, Alvin H., B.S. in Agricultural Education, Graduate Assistant in Agricultural Economics
 Webb, Thomas R., B.S. in Electrical Engineering, Graduate Assistant in Physics.

GRADUATE SCHOLARS, 1931-32

- David, James B., B.S. in Chemical Engineering, Graduate Scholar in Chemistry
 Hughes, Charles R., A.B., Graduate Scholar in History
 Miller, Wm. Gilbert, A.B., Graduate Scholar in Mathematics
 Miller, Edward L., A.B., Graduate Scholar in Sociology
 Mollett, Charles E., M.S., Graduate Scholar in Pharmacology
 Moon, Leland W., A.B. in Education, Graduate Scholar in Education
 Morrow, John A., M.A., Graduate Scholar in Physical Chemistry
 Radin, Jeannette M., Ph.C., Graduate Scholar in Pharmacy
 Reiber, Felix A., B.S. in Agriculture, Graduate Scholar in Mathematics
 Rice, Owen, B.S. in Chemical Engineering, Graduate Scholar in Chemistry
 Stock, Joseph C., B.S. in Education, Graduate Scholar in Sociology
 Tower, John B., B.S., Graduate Scholar in Biology
 Young, Rogers, A.B. in Education, Graduate Scholar in History

RECIPIENTS OF DEGREES, GRADUATE SCHOOL

February 2, 1931

MASTER OF ARTS IN EDUCATION

- J. Colvin Brown, B.S.A.E., University of Florida, 1923,
 Education Barberville
 Thesis: The Development of Agricultural Education in the State of Florida from 1918 to 1928 and Needs for Future Growth.

MASTER OF SCIENCE

- Thomas Leonard Cain, Jr., B.S. in Agriculture, University of Florida, 1930,
 Entomology Cocoa
 Thesis: The Biology, Life History, and Control of the Cross-Striped Cabbage Worm *Evergestis Rimosalis* Guenee.

RECIPIENTS OF DEGREES, GRADUATE SCHOOL

June 1, 1931

MASTER OF ARTS

- Jerome Alton Connor, A.B., University of Florida, 1929,
 Sociology Pensacola
 Thesis: Survey of Housing Conditions for Students at the University of Florida.

- Sam W. McInnis, A.B. in Education, University of Florida, 1923,
 Mathematics O'Brien
 Thesis: A Study of Hilbert's *Foundations of Geometry*.

- Verne Edmund Wilson, A.B., Asbury College, 1930,
 Psychology Hettinger, N. Dak.
 Thesis: A Contribution to the Scientific Prognosis of Scholastic Achievement.

MASTER OF SCIENCE

- Henry Alver Bess, B.S., Alabama Polytechnic Institute, 1927.
 Entomology Midland City, Ala.
 Thesis: The Biology, Life History, and Control of the Diamond Back Moth *Plutella Maculipennis* (Curtis), an Insect Pest of Cruciferous Plants.

- Mark Dupuy Butler, B.S., University of Florida, Feb., 1930.
 Physics Miami
 Thesis: The Measurement and Utilization of Solar Radiation.

- Norman W. Davis, B.S., University of Florida, 1930,
 Biology Atlantic City, N. J.
 Thesis: A contribution to the Knowledge of the Opiliones (Phalangida) of Florida.

- Hastings Wyman Jones, B.S., Clemson College, 1929.
 Chemistry Aiken, S. C.
 Thesis: Some Transformations of Urea and Their Resultant Effects on the Soil.

- John Barkley Rosser, B.S., University of Florida, 1929,
 Physics Jacksonville
 Thesis: On the Extension of Certain Theorems of Mathematical Physics
 and Their Subsequent Application to Problems of Wave Me-
 chanics.
- Richard Kenneth Voorhees, B.S. in Agriculture, University of Florida, 1930,
 Plant Pathology Cantonment
 Thesis: Seedling Blight of Corn Caused by *Fusarium Moriliforme* Sheld.
- Erdman West, B.S., Pennsylvania State College, 1917.
 Botany Gainesville
 Thesis: Some Histological Studies in Scaly Bark of Citrus.

MASTER OF SCIENCE IN AGRICULTURE

- C. J. Bolton, Jr., A.B., Georgetown College, 1929,
 Agricultural Economics West Point, Ky.
 Thesis: A Study of Potato Coöperative Marketing Associations in Florida.
- Charles Ralph Dawson, B.S. in Agriculture, University of Florida, 1928,
 Animal Husbandry Gainesville
 Thesis: A Comparison of Soybean Silage and Alfalfa Hay for Milk Pro-
 duction.
- Aubrey Elsworth Duncombe, B.S. in Agriculture, University of Florida, 1929,
 Horticulture Lynn Haven
 Thesis: The Root System of the Tung Oil Tree with Further Observations
 on Its Growth and Fruiting Habits.
- Ivan E. Miles, B.S., Mississippi A. & M. College, 1930,
 Agronomy Lauderdale, Miss.
 Thesis: The Effect of Varying Amounts of Nitrogen and Potassium on the
 Yield and Quality of Potatoes.
- Zach Savage, B.S., Alabama Polytechnic Institute, 1923.
 Agricultural Engineering Gainesville
 Thesis: A Study of One Hundred Thirty-eight Windmills in Florida.
- John Vertrees Watkins, B.S., University of Pittsburg, 1925,
 Horticulture Gainesville
 Thesis: Flower Bud Differentiation and Growth Studies in the *Gladiolus*.
- Robert Buchanan Wooten, B.S. in Agriculture, North Carolina State College of
 Agriculture, 1929,
 Agronomy Turnout, S. C.
 Thesis: The Effect of Soil Type on the Nutrition of Dried Blood and Am-
 monium Sulphate.
- Martin Greene Young, B.S. in Agriculture, University of Florida, 1926,
 Agricultural Economics Vero Beach
 Thesis: Cost and Returns on Sixty Poultry Farms in Florida with Com-
 parisons for 1928-29.

MASTER OF SCIENCE IN PHARMACY

- Lovell David Hiner, B.S., South Dakota State College, 1929,
 Pharmacognosy Wagner, S. Dak.
 Thesis: Mint Oils in Florida.

- Paul Stanly Shattuck, B.S. in Pharmacy. The Ohio State University, 1929.
 Pharmacy Iron'on, O.
 Thesis: The Effect of Various Iodides upon the Stability of Hydriodic Acid.
- Arnold DeMerritt Welch, B.S. in Pharmacy, University of Florida, 1930.
 Pharmacology Zephyr Hills
 Thesis: The Effects of Certain Thymus Extracts on Blood Calcium and Phosphorus.

RECIPIENTS OF DEGREES, GRADUATE SCHOOL

August 6, 1931

MASTER OF ARTS

- Manning Julian Dauer, Jr., A.B. in Education, University of Florida, 1930.
 History Tampa
 Thesis: The Federalistic Secession Movement of 1803-1804.
- Arthur Sylvester Green, A.B. in Education, University of Florida, 1928.
 Political Science Perry
 Thesis: The Origin and Development of the Convention System in American Politics.
- Anna Elizabeth Pugh, B.S., Florida State College For Women, 1908,
 English Gainesville
 Thesis: The Ways in Which Edgar Allen Poe Has Used Connotative Material and Expressions.
- Robert G. Winn, A.B., Asbury College, 1928.
 English Winslow, Ark.
 Thesis: Treatment of Historical Facts in the Novels of Sir Walter Scott.

MASTER OF ARTS IN EDUCATION

- Charles Olin Barnes, B.S. in Business Administration, University of Florida, 1926,
 Education Plant City
 Thesis: A Study of Rural School Supervision in Florida.
- John A. Crookshank, B.S. in Education, North East Missouri State Teachers College, 1914,
 Education Hastings
 Thesis: School Transportation in St. Johns County, Florida.
- William Louis Goette, A.B., Baldwin-Wallace College, 1916.
 Education Lake City
 Thesis: A Study of the Instructional Records of the Accredited Six-Year Junior-Senior High Schools of Florida.
- Thomas Jay Poppell, A.B. in Education, University of Florida, 1915,
 Education Groveland
 Thesis: Factors Influencing Pupil Mortality in the High School of Groveland, Florida.

MASTER OF SCIENCE

- Maurice Lee Moore, B.S., University of Florida, 1930.
 Chemistry Crestview
 Thesis: Acyl Derivatives of Ortho-Aminophenol.
- William Everett Robinson, B.S. in Education, University of Florida, 1930,
 Chemistry Palmetto
 Thesis: New Uses of Vanadous Salts in Analytical Chemistry.
- Chiles Emory Sparks, A.B., Georgetown College, 1930.
 Chemistry Ashland, Ky.
 Thesis: Acyl Derivatives of Ortho-Aminophenol.
- Vernon C. Steen, B.S. in Mechanical Engineering, University of Florida, 1927,
 Mathematics Gainesville
 Thesis: Simplified Methods of Graphical Calculus.
- Silas M. Thronson, A.B., St. Olaf College, 1927,
 Chemistry Houston, Minn.
 Thesis: The Use of Tung Oil in Brush Lacquer and the Bodying of Tung Oil.

MASTER OF SCIENCE IN AGRICULTURE

- Robert Spencer Edsall, B.S. in Agriculture, University of Florida, 1930,
 Agronomy Bradenton
 Thesis: The Relation Between Growth and Yield of Grapefruit Trees as Affected by Season and Nitrogen Fertilizer Treatments.

REGISTER OF STUDENTS, GRADUATE SCHOOL

SUMMER, 1931

Abbott, Beulah W. (Mrs. C. W.), Bachelor of Philosophy, University of Chicago, 1906, French	St. Petersburg
Akins, Annie Belle, A.B., Southern College, 1929, English	St. Catherine
Andrews, C. L., A.B. in Education, University of Florida, 1930, Education	Darlington
Arnold, Lillian E. B.S., Stetson University, 1918, Botany	Gainesville
Arnold, Laurie James, B.S. in Education, University of Florida, 1931, Education	Lake City
Babich, Peter, A.B., Rollins College, 1928, History	Greensboro
Baggott, Charles Edward, B.S. in Agriculture, University of Florida, 1927, Education	Plant City
Barnes, Charles Olin, B.S. in Business Administration, University of Florida, 1926, Education	Plant City
Bass, Joe, B.S. in Business Administration, University of Florida, 1930, Economics	Jacksonville
Beadle, Melissa Louise, A.B., Stetson University, 1930, English	DeLand
Beckman, William Woods, B.S., University of Florida, 1931, Chemistry	St. Petersburg
Bird, George Lloyd, A.B., 1923; M.A., 1925; University of Wisconsin, Sociology	Keystone Heights
Bonacker, Velma Shands (Mrs.), B.S., Florida State College for Women, 1921, Sociology	Citra
Bridges, Mary Kathleen, A.B. in Education, Florida State College for Women, 1927, English	Blountstown
Bristol, Loris R., B.S., University of Florida, 1929, Sociology	Gainesville
Brown, Marcus Gordon, A.B., Washington Missionary College, 1927, Spanish	Jacksonville
Butler, Wilhelmina, A.B. in Education, Florida State College For Women, 1927, Education	Jacksonville
Butts, John L., B.S., Mississippi A. & M. College, 1916, Education	Miami
Carlisle, Ralph C., B.S., Alabama Polytechnic Institute, 1910, Education	Sneads
Carter, E'gar White, A.B. in Education, University of Florida, 1926, Education	Hilliard
Chaffer, Herbert J., A.B. in Education, University of Florida, 1924, Education	Longwood
Clubbs, Oecie, A.B. in Education, University of Florida, 1929, History	Pensacola
Cook, F. Edward, A.B., University of Florida, 1930, Psychology	Ocala
Corr, Alys May, A.B. in Education, University of Florida, 1929, Education	Gainesville
Crookshank, John A., B.S. in Education, North East Missouri State Teachers Col- lege, 1914, Education	Hastings
Crowell, John Melvin, A.B. in Education, University of Florida, 1927, Education	Wauchula
Culpepper, John Broward, A.B., University of Florida, 1930, Education	Perry

Dauer, Martha F. (Mrs.), A.B. in Education, University of Florida, 1930, English	Tampa
Dauer, Manning J., Jr., A.B. in Education, University of Florida, 1930, History	Tampa
Davidson, Watson P., A.B. in Education, University of Florida, 1929, Education	Waldo
De Le Gal, Esther, A.B., Southern College, 1929, Education	White Springs
Donnelly, Wallace O., A.B., University of Florida, 1931, French	Gainesville
Driggers, Albert G., B.S. in Agriculture, University of Florida, 1928, Education	Greensboro
Dugan, Russ Randolph, A.B., Southern College, 1929, Education	Madison
Dugger, Lonnie Lee, A.B. in Education, University of Florida, 1928, Education	Macclenny
Durrance, Augusta Winn (Mrs. H. G.), A.B., University of Kentucky, 1923, English	Kissimmee
Edsall, Robert Spencer, B.S. in Agriculture, University of Florida, 1930, Agronomy	Bradenton
Elf, Samuel, B.S. in Education, University of Florida, 1929, Education	St. Augustine
Evans, Winifred Holden (Mrs. L. C.), B.S., Florida State College For Women, 1926, Mathematics	Wauchula
Fisher, Charles M., B.S., University of Florida, 1908, Education	Miami
Fogg, Grace Dell, B.S. in Education, University of Florida, 1930, Education	Dade City
Freeman, Henry E., B.S. in Chemical Engineering, University of Florida, 1915, Physics	Tampa
Gabriel, Annie, A.B., University of Texas, 1915, Psychology	Jacksonville
Goette, W. L., A.B., Baldwin-Wallace College, 1916, Education	Eustis
Godbold, Walter E., A.B., Southern College, 1929, Education	Delray
Green, Arthur Sylvester, A.B. in Education, University of Florida, 1928, Political Science	Perry
Grimm, Phyllis J. (Mrs.), A.B., Florida State College For Women, 1915, French	Gainesville
Hall, Josiah Calvin, Jr., A.B. in Education, University of Florida, 1931, Education	Bradenton
Hancy, Stephen F., A.B. in Education, University of Florida, 1929, Education	Clearwater
Harris, Sarah S. (Mrs. C. H.), A.B. in Education, University of Florida, 1928, Education	Jacksonville
Harris, Carl H., A.B. in Education, University of Florida, 1928, Education	Jacksonville
Harris, Robert Ennis, A.B., Ogden College, 1923, Education	Orlando
Hatton, Harriet (Mrs. M. W.), B.S. in Education, University of Alabama, 1925, Education	Tampa
Hearn, Vernice Law, A.B. in Education, University of Florida, 1930, Education	Miami
Hill, Maoma F., B.S. in Education, Florida State College For Women, 1922, Agronomy	Dade City

Hiner, Lovell David, B.S., South Dakota State College, 1929; M.S. in Pharmacy, University of Florida, 1931,	
Pharmacognosy	Gainesville
Hoag, Howard L., A.B., Kalamazoo College, 1927,	
Economics	Kalamazoo, Mich.
Jacobi, Gertrude Florence, A.B. in Education, University of Florida, 1930,	
English	Jacksonville
Jelks, Ruth, A.B., Florida State College For Women, 1926,	
History	Pompano
Johnson, Clifton Drew, A.B., University of Florida, 1921,	
Education	Clearwater
Karraker, William J., B.S., University of Kentucky, 1931,	
Physics	Dongola, Ill.
Kazarian, Carl, B.S. in Pharmacy, University of Florida, 1931,	
Pharmacy	Orlando
Kelly, James Homer, B.S. in Education, University of Florida, 1926,	
History	Gainesville
Knight, Fred Key, B.S. in Agriculture, University of Florida, 1925,	
Education	Crescent City
Koch, Elsa, A.B., Wilson College, 1916,	
French	Pittsburgh, Penn.
Lane, Helyn Allison, A.B., Howard College, 1923,	
History	Orlando
Lawson, Lois M., A.B., State University of Iowa, 1927,	
Education	Lake Wales
Larimore, Granville W., B.S., University of Florida, 1931,	
Chemistry	Tampa
Lastinger, Samuel Thomas, B.S., University of Florida, 1930,	
Education	Gainesville
Lewis, Bonita Brunson (Mrs. P. R.), A.B., Florida State College For Women, 1927,	
Spanish	Ft. Myers
Lewis, Gardner L., A.B., University of Florida, 1931,	
French	St. Petersburg
Lewis, Park Roland, B.S. in Education, University of Florida, 1926,	
Chemistry	Ft. Myers
Lord, Richard P., B.S. in Agriculture, University of Florida, 1931,	
Botany	Gainesville
Lott, Audrey Peacock (Mrs. H. B.), A.B., Florida State College For Women, 1927,	
History	Perry
McCall, Mary Eva, B.S., Florida State College For Women, 1929,	
Physics	Sarasota
McCall, Maud Bryant, A.B., Florida State College For Women, 1924,	
Education	Wildwood
McEwen, R. O., A.B. in Education, University of Florida, 1929,	
Education	Brooksville
McEwen, Maude, A.B. in Education, Florida State College For Women, 1926,	
French	Zellwood
McIntire, James Edgar, B.S. in Agriculture, University of Florida, 1929,	
Education	Trenton
McLane, E. F., A.B. in Education, University of Florida, 1922,	
Education	Apalachicola
McMakin, Dorothy P., A.B., Rollins College, 1929,	
Education	Orlando
McPherson, D. G., A.B., Southern College, 1928,	
Education	Wauchula
Magid, Louis, B.S. in Pharmacy, University of Florida, 1931,	
Pharmacy	Tampa

Mann, Don T., B.S., Vanderbilt University, 1920, Mathematics	Reddick
Markham, Julian E., B.S., University of Florida, 1931, Education	Lake City
Martin, Memory, B.S. in Education, University of Florida, 1928, Education	Gainesville
Martin, Roe Millege, A.B. in Education, University of Florida, 1930, History	Gainesville
Mathews, Arnold W., B.S. in Pharmacy, University of Alberta, 1921, Pharmacy	Edmonton, Canada
Miller, Clara Pearl, A.B., Woman's College of Alabama, 1928, Mathematics	Bay Harbor
Miller, Henry Broward, A.B. in Education, University of Florida, 1930, Education	Bushnell
Mitchell, Wm. Franklin, B.S. in Agriculture, University of Florida, 1931, Education	Lakeland
Moorman, John Haynes, B.S. in Commerce, Northwestern University, 1923, Economics	Winfield, Iowa
Moore, Maurice Lee, B.S., University of Florida, 1930, Chemistry	Crestview
Morse, Marian Frances, A.B., Smith College, 1918, History	West Palm Beach
Mullon, Harry B., A.B., Dickinson College, 1923, Education	Mulberry
Neale, Richmond Hughes, Ph.B., Yale Sheffield Science School, 1914, Education	Wimauma
Neville, Sister Mary Laurine, A.B., St. Joseph's College, 1929, English	Chicago, Ill.
Norton, Bessie Amanda, A.B. in Education, University of Florida, 1930, Education	Panama City
O'Bryant, Horace, B.S. in Education, University of Florida, 1922, Education	Oxford
Orr, Reuben Bennett, A.B. in Education, University of Florida, 1930, Education	Gainesville
Payne, Corinne W. (Mrs. A. N.), A.B., Union College, 1928, English	Gainesville
Payne, John H., A.B. in Education, University of Florida, 1927, Psychology	Ft. Meade
Pearson, Seibert C., B.S., University of Florida, 1931, Biology	Alachua
Peek, Mary Elizabeth (Mrs. H. E.), A.B., University of Kansas, 1909; M.S. in Edu- cation, University of Florida, 1930, Education	Jacksonville
Perkins, Carroll Carradine, A.B., Asbury College, 1927, Education	Jacksonville
Perloff, Ben, A.B., University of Florida, 1929, Spanish	Jacksonville
Peterson, Frank Lon, A.B., University of Florida, 1930, French	Miami
Poppell, Thomas Jay, A.B. in Education, University of Florida, 1915, Education	Groveland
Polites, Nicholas, B.S., University of Florida, 1931, Physics	Jacksonville
Price, Joseph Edwin, A.B. in Education, University of Florida, 1930, English	Gainesville
Pugh, Anna Elizabeth, B.S., Florida State College For Women, 1908, English	Gainesville

Putnam, Howard Line, B.S. in Business Administration, University of Florida, 1930, Economics	Miami
Quade, Edward S., B.S., University of Florida, 1930, Mathematics	Jacksonville
Rickards, James S., A.B., DePauw University, 1908, Education	Tallahassee
Roberts, William Harold, A.B., University of Florida, 1930; B.S. in Agriculture, University of Florida, 1931, Education	Homestead
Robinson, William Everett, B.S. in Education, University of Florida, 1930, Chemistry	Gainesville
Ross, Marjorie F., A.B., McMaster University, 1912, English	Kelsey City
Rowell, John Theron, B.S. in Education, University of Florida, 1930, Education	Perry
Savage, Zach, B.S., Alabama Polytechnic Institute, 1923; M.S. in Agriculture, Uni- versity of Florida, 1931, Agricultural Economics	Gainesville
Scally, Gertrude V. (Mrs.), A.B. in Education, University of Florida, 1931, English	Tampa
Schiller, C. P., A.B. in Education, University of Florida, 1930, English	St. Petersburg
Schiller, Wilma M. (Mrs. C. P.), A.B., Florida State College For Women, 1929, Sociology	St. Petersburg
Sewell, Robert O., B.S., University of Florida, 1929, Biology	St. Petersburg
Shaw, William Henry, A.B. in Education, University of Florida, 1929, Education	Raiford
Shaw, Hubert DeGrofeur, A.B., Harvard College, 1893; Ph.D., Ohio (Athens), 1894, Chemistry	Gainesville
Shepard, Alice Forsburg (Mrs. C. R.), A.B., Florida State College For Women, 1928, Latin	Gainesville
Sikes, Emma Keys (Mrs. R. F.), B.S. in Home Economics, University of Georgia, 1928, Education	Gainesville
Skermmer, George H., A.B. in Education, University of Florida, 1930, Spanish	Tampa
Sparks, Chiles E., A.B., Georgetown College, 1930, Chemistry	Gainesville
Smith, Margaret M., A.B., Florida State College For Women, 1931, English	Gainesville
Smith, James E., B.S. in Education, University of Florida, 1928, Bacteriology	Cypress
Smith, Foster Shi, A.B.S.S., University of Florida, 1924; LL.B., University of Florida, 1928, History	Hawthorne
Steen, Vernon C., B.S. in Mechanical Engineering, University of Florida, 1927, Mathematics	Gainesville
Stevens, William D., A.B. in Education, University of Florida, 1929, History	Jacksonville
Stock, Joseph Clyde, B.S. in Education, University of Florida, 1931, Sociology	Interlachen
Thalgott, Alberta R., B.S., Florida State College For Women, 1927, Education	Dunnellon
Thompson, Laudious L., A.B. in Education, University of Florida, 1923, Education	Panama City
Thronson, Silas M., A.B., St. Olaf College, 1927, Chemistry	McIntosh

Tulane, Lida, A.B. in Education, University of Florida, 1928, Education	St. Petersburg
Tyson, Willie Kate, A.B., Florida State College For Women, 1927, History	Perry
Wakefield, George N., B.S. in Agriculture, University of Florida, 1925, Agricultural Education	Homestead
Ware, Mary P. (Mrs.), A.B., Bethel Woman's College, 1893, Education	Miami Beach
Watson, Veda, A.B., Southern College, 1927, English	Ft. Meade
Weld, Benjamin R., A.B., Princeton University, 1898, Education	Keystone Heights
Wetherington, T. S., B.S., Lincoln Memorial University, 1919, Education	Williston
Wetmore, Ruby A. (Mrs. E. R.), A.B., University of Michigan, 1917, Botany	Gainesville
Wheeler, J. D., A.B. in Education, University of Florida, 1924, History	Ft. White
White, Ruth, A.B., Wesleyan College, 1916, English	Gainesville
Williams, C. M., B.S., Valparaiso University, 1914, Education	Trenton
Williams, A. D., A.B. in Education, University of Florida, 1928, Education	Branford
Williams, Kenneth Rast, A.B. in Education, University of Florida, 1929, Education	Monticello
Wilson, Lucile S. (Mrs. W. M.), A.B., Winthrop College, 1914, Education	Gainesville
Winn, Robert G., A.B., Ashbury College, 1928, English	Winslow, Ark.
Wood, Martha B., A.B., Woman's College of Alabama, 1926, English	Osteen
Worthington, Merrill O., B.S. in Agriculture, Lincoln Memorial University, 1921, Education	Alachua

REGISTER OF STUDENTS. GRADUATE SCHOOL

FIRST SEMESTER, 1931-32

Abbott, Ouida Davis, B.S., 1921; M.A., 1922; Ph.D., 1925; University of Missouri, Pharmacology	Gainesville
Ames, Burton Weber, B.S. in Agriculture, University of Florida, 1923, Education	Gainesville
Amundsen, Lawrence Hardin, B.S., College of the Ozarks, 1931, Chemistry	Clarksville, Ark.
Arnett, William Tobias, B.S. in Architecture, University of Florida, 1929, Architecture	Clermont
Arnold, Lillian E., B.S., Stetson University, 1918, Botany	Bradenton
Baer, Allan O., B.S. in Business Administration, University of Florida, 1931, Business Administration	Omaha, Neb.
Baggott, Charles Edward, B.S. in Agriculture, University of Florida, 1927, Education	Plant City
Bass, Joe, B.S. in Business Administration, University of Florida, 1930, Economics	Jacksonville
Beck, Dow Gary, B.S. in Electrical Engineering, University of Tennessee, 1915, Electrical Engineering	Ocala

Birmingham, George William, B.S. in Pharmacy, North Dakota Agricultural College, 1930, Pharmacy	Stutsman, N. Dak.
Bogart, John Alleyn C., B.S. in Civil Engineering, University of Florida, 1931, Municipal Engineering	Gainesville
Bonacker, Velma Shands (Mrs.), B.S., Florida State College For Women, 1921, Sociology	Citra
Briggs, Wynfred Roscoe, B.S. in Agriculture, University of Florida, 1917, Agricultural Economics	Gainesville
Bristol, Loris Rood, B.S., University of Florida, 1929, Sociology	Gainesville
Butts, John L., B.S., Mississippi A. & M. College, 1916, Agricultural Education	Miami
Calhoun, Paul White, B.S., University of Florida, 1930, Chemistry	Madison
Camp, Paul Douglas, B.S. in Agriculture, University of Florida, 1919, Animal Husbandry	White Springs
Clark, Washington A., A.B., 1922; M.A., 1930; University of South Carolina; English	Columbia, S. C.
Coleman, John Melton, B.S., Mississippi A. & M. College, 1915, Chemistry	Gainesville
Cole, Allen Thomas, B.S., Hamline University, 1930, Chemistry	Faribault, Minn.
Constans, Henry P., A.B., Carleton College, 1921; LL.B., University of Wyoming, 1927; M.A., University of Iowa, 1928; Psychology	Gainesville
Corr, Alys M., A.B. in Education, University of Florida, 1929, Journalism	Gainesville
David, James B., B.S. in Chemical Engineering, University of Florida, 1931, Chemistry	Jacksonville
Davis, U. P., A.B., Milton College, 1907; M.A., University of Florida, 1930, Mathematics	Gainesville
DeMasters, Clarence Ulysses, B.S. in Agriculture, University of Florida, 1931, Chemistry	Biggs, Calif.
Dodson, Charles Lewis, B.S. in Education, University of Florida, 1927, Education	Gainesville
Donnelly, Wallace Oliver, A.B., University of Florida, 1931, French	Gainesville
Driggers, Clyde Littleton, B.S. in Chemical Engineering, University of Florida, 1929, Municipal Engineering	Leesburg
Durrance, Augusta Winn (Mrs.), A.B., University of Kentucky, 1923, English	Kissimmee
Fifield, Willard Merwin, B.S. in Agriculture, University of Florida, 1930, Horticulture	Jacksonville
Fleming, Samuel Todd, A.B., Florida Agricultural College, 1901, Economics	Gainesville
Forsee, William Thomas, Jr., A.B., Georgetown College, 1931, Chemistry	Owenton, Ky.
Freeman, H. Dwight, B.S. in Agriculture, University of Florida, 1931, Agricultural Engineering	Tampa
Frison, C. Gerard, A.B. in Education, University of Florida, 1931, Education	Titusville
Fulghum, Ralph Morris, B.S. in Agriculture, University of Georgia, 1929, Journalism	Mitchell, Ga.
Gonzalez-Rios, Policarpo, B.S. in Agriculture, University of Porto Rico, 1915, Horticulture	Mayaguez, P. R.
Gordon, Ulysses S., A.B. Southwestern, 1916; B.D., Theological Seminary (Louisville), Philosophy	Gainesville

Guard, Carl Jackson, B.S. in Civil Engineering, University of Florida, 1931, Municipal Engineering	Orlando
Grimm, Phyllis Jarrell (Mrs.), A.B., Florida State College For Women, 1915, French	Gainesville
Hall, Josiah Calvin, Jr., A.B. in Education, University of Florida, 1931, Education	Dunedin
Hawkins, George A., B.S. in Education, University of Florida, 1929, Chemistry	Bay Harbor
Hearn, Vernice Law, A.B. in Education, University of Florida, 1930, Education	Miami
Henderson, Joseph Russell, B.S. in Agriculture, University of Florida, 1931, Agronomy	Lee
Hill, Maoma Frances, B.S. in Education, Florida State College For Women, 1922, Agronomy	Dade City
Hiner, Lovell David, B.S., South Dakota State College, 1929; M.S. in Pharmacy, University of Florida, 1931, Pharmacognosy	Wagner, S. Dak.
Hocking, George M., B.S. in Pharmacy, University of Washington, 1931, Pharmacognosy	Portland, Oregon
Howard, Raymond Holt, B.S. in Agriculture, 1928; M.S. in Agriculture, 1930, Uni- versity of Florida, Agricultural Economics	Gainesville
Hughes, Charles Roy, A.B., University of Florida, 1931, History	Lake Hamilton
Hussey, Thomas G., B.S., University of Florida, 1931, Chemistry	West Palm Beach
Jahn, Fred Stephen, B.S. in Business Administration, University of Florida, 1931, Business Administration	New Port Richey
Jefferson, Wayne O., B.S. in Electrical Engineering, University of Florida, 1931, Electrical Engineering	Pensacola
Jernigan, Claude Hagen, B.S. in Electrical Engineering, University of Florida, 1931, Electrical Engineering	Marianna
Johnson, Alex Ralph, B.S. in Agriculture, University of Florida, 1925, Education	Sanford
Jones, Hastings Wyman, B.S., Clemson College, 1929; M.S., University of Florida, 1931, Chemistry	Aiken, S. C.
Juan, Gervacio Escobar, B.S. in Agriculture, South Dakota State College, 1930, Horticulture	Castillejos, P. I.
Knight, Fred Key, B.S. in Agriculture, University of Florida, 1925, Education	Putnam
Larson, Lawrence John, B.S. in Agriculture, University of Florida, 1928, Agricultural Economics	Tampa
Lawrence, Helen Julia, A.B., Asbury College, 1923; M.A., Florida State College For Women, 1928, Chemistry	Keystone Heights
Lindstrom, Evan Theodore, B.S., University of Miami, 1930, Physics	Miami
Loften, William T., B.S. in Agriculture, University of Florida, 1931, Education	Alachua
Lowe, Thomas M., B.S. in Civil Engineering, Massachusetts Institute of Technology, 1926; M.S., University of Wisconsin, 1931, Civil Engineering	Gainesville
Lyle, William Raymond, B.S. in Agriculture, University of Florida, 1930, Horticulture	Bartow
Lynch, Harold John, B.S. in Pharmacy, South Dakota State College, 1931, Pharmacology	Faribault, Minn.

McCracken, Ernest Maldron, A.B., Georgetown College, 1930, Economics	Erlanger, Ky.
McInnis, Sam W., A.B. in Education, 1923; M.A., 1931, University of Florida, Mathematics	Gainesville
McIntire, James Edgar, B.S. in Agriculture, University of Florida, 1929, Education	Trenton
Magid, Louis, B.S. in Pharmacy, University of Florida, 1931, Pharmacy	Tampa
Menendez, Ernest M., B.S. in Electrical Engineering, University of Florida, 1931, Electrical Engineering	Tampa
Miller, Saul D., Advanced Senior, Biology	Gainesville
Miller, William Gilbert, A.B., Birmingham Southern College, 1931, Mathematics	Birmingham, Ala.
Miller, Edward Loring, A.B., Stetson University, 1929, Sociology	Miami
Mollett, Charles Edwin, M.S., University of Kansas, 1927, Pharmacology	Missoula, Mont.
Moon, Leland Wills, A.B. in Education, University of Florida, 1928, Education	Gainesville
Moon, Robert Cary, A.B. in Education, University of Florida, 1931, English	Gainesville
Morris, Alton Chester, A.B. in Education, 1927; M.A., 1928, University of Florida, English	Gainesville
Moore, William Edgar, A.B., Furman University, 1928; M.A., Columbia University, 1929, English	Bishopville, S. C.
Morrow, John Albert, M.A., University of Virginia, 1921, Chemistry	Gainesville
Mowry, Harold, B.S. in Agriculture, University of Florida, 1929, Bacteriology	Gainesville
Northrop, Floyd Lorrain, B.S., Cornell University, 1920, Agricultural Education	Miami
Nunez, George Tierso, B.S. in Business Administration, University of Florida, 1931, Business Administration	Perry
Otte, Burton J. H., A.B., Carleton College, 1918; M.S., University of Florida, 1930, Chemistry	Gainesville
Pearson, Seibert Clinton, B.S., University of Florida, 1931, Biology	Alachua
Perkins, Carroll Carradine, A.B., Asbury College, 1927, Education	Jacksonville
Pierson, John E., B.S. in Architecture, Georgia School of Technology, 1925, Architecture	Ripley, Tenn.
Pirenian, Zareh M., B.S. in Chemical Engineering, 1926; M.S., 1929, University of Florida, Mathematics	Gainesville
Price, Joseph Edwin, A.B. in Education, University of Florida, 1930, English	Gainesville
Prince, Thomas Chafer, A.B. in Education, University of Florida, 1929, Education	Jacksonville
Putnam, Howard Line, B.S. in Business Administration, University of Florida, 1930, Economics	Miami
Quade, Edward S., B.S., University of Florida, 1930, Mathematics	Jacksonville
Radin, Jeannette Mary, Ph.G., 1930; Ph.C., 1931; Medical College of South Carolina, Pharmacy	Sejny, Poland
Reiber, Felix Anthony, B.S. in Agriculture, University of Florida, 1930, Mathematics	Jacksonville

Reynolds, Frank J., B.S. in Agriculture, University of Florida, 1929, Agronomy	Citra
Richards, Joseph Vincent, B.S. in Business Administration, University of Florida, 1931, Business Administration	Gainesville
Rice, Owen, II, B.S. in Chemical Engineering, University of Florida, 1931, Chemistry	Orlando
Roberts, George Carl, B.S. in Agricultural Education, University of Florida, 1920, Agricultural Economics	Weirsdale
Roesel, Tillie Augusta, B.S. in Home Economics, Florida State College For Women, 1927, Agricultural Economics	Bushnell
Rochester, Morgan Columbus, B.S., Clemson College, 1931, Agricultural Economics	Salem, S. C.
Rowell, John Orian, B.S., Clemson College, 1931, Entomology	Marion, S. C.
Sansbury, Walter Ewing, B.S., University of Florida, 1931, Chemistry	West Palm Beach
Savage, Zach, B.S., Alabama Polytechnic Institute, 1923; M.S. in Agriculture, Uni- versity of Florida, 1931, Agricultural Economics	Gainesville
Sawyer, William L., B.S., University of Illinois, 1928, Civil Engineering	Decatur, Ill.
Scaglione, Peter C., B.S. in Business Administration, University of Florida, 1929, Business Administration	Gainesville
Settle, Lucy Belle, B.S. in Education, Florida State College For Women, 1927, Education	Gainesville
Shahinian, Manoug H., B.S. in Electrical Engineering, University of Florida, 1931, Electrical Engineering	Gainesville
Shaw, Hubert de Grofeur, A.B., Harvard University, 1893; Ph.D., Ohio University, 1894, Chemistry	Gainesville
Simmons, G. Ballard, A.B. in Education, 1922; M.A. in Education, 1929, University of Florida, Education	Gainesville
Smith, Joseph G., B.S. in Agriculture, University of Florida, 1923, Agricultural Education	Plant City
Smith, Helman, B.S. in Pharmacy, University of Florida, 1931, Pharmacy	Jacksonville
Sparks, Chiles Emory, A.B., Georgetown College, 1930; M.S., University of Florida, 1931, Chemistry	Ashland, Ky.
Spurlock, Alvin Harold, B.S. in Agricultural Education, University of Florida, 1931, Agricultural Economics	Milton
Stock, Joseph Clyde, B.S. in Education, University of Florida, 1931, Sociology	Interlachen
Swanson, Daniel Cramer, B.S., Hobart College, 1923; S.B., Massachusetts Institute of Technology, 1929, Physics	Pratts Hollow, N. Y.
Sweat, Thomas William, A.B. in Education, University of Florida, 1931, Education	Hawthorne
Thronson, Silas Melvin, A.B., St. Olaf College, 1927; M.S., University of Florida, 1931, Chemistry	Houston, Minn.
Tolbert, Benjamin Arthur, A.B. in Education, University of Florida, 1927, Education	Gainesville
Tower, John Ballard, B.S., University of Florida, 1931, Biology	Homestead
Wakefield, George Norton, B.S. in Agriculture, University of Florida, 1925, Agricultural Education	Homestead
Wann, John Levi, B.S. in Agriculture, Purdue University, 1921, Agricultural Economics	Gainesville

Watkins, John Vertrees, B.S., University of Pittsburg, 1925; M.S. in Agriculture, University of Florida, 1931,	
Horticulture	Gainesville
Webb, Thomas Roba, B.S. in Electrical Engineering, University of Florida, 1931,	
Physics	Winter Garden
Weld, Benjamin Remington, A.B., Princeton University, 1898,	
Education	Keystone Heights
Wetherington, Tullie Steve, B.S., Lincoln Memorial University, 1919,	
Education	Williston
Williams, C. M., B.S., Valparaiso University, 1914,	
Education	Trenton
Williams, Edwin Lacy, A.B. in Education, University of Florida, 1930,	
History	Fort Meade
Wilmot, Royal James, B.S. in Agriculture, University of Tennessee, 1922,	
Horticulture	Loughman
Wilson, John Wesley, B.S. in Electrical Engineering, University of Florida, 1931,	
Electrical Engineering	Sanford
Wolcott, John Lucien, B.S. in Electrical Engineering, University of Florida, 1931,	
Electrical Engineering	Orlando
Wooten, Robert Buchanan, B.S. in Agriculture, North Carolina State College, 1929; M.S. in Agriculture, University of Florida, 1931,	
Agronomy	Turnout, S. C.
Young, Rogers White, A.B. in Education, University of Florida, 1931,	
History	Tallahassee

SUMMARY

Number of Master's degrees granted in regular session 1930-31	23
Number of Master's degrees granted in summer session 1931	14
<hr/>	
Total for the year	37
Number of students registered in the Graduate School, summer session 1931	155
Number of students registered in the Graduate School, first semester 1931-32	129
<hr/>	
Gross total	284

The University Record
of the
University of Florida

Financial Report
of
The University of Florida

June, 1931



Vol. XXVII, Series 1 No. 2 January 15, 1932

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THE UNIVERSITY OF FLORIDA

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REPORT OF THE BUSINESS MANAGER

To the President of the University:

SIR: I have the honor to submit herewith a report covering the operation of the Business Manager's office for the biennium ended June 30, 1931. The books of the University have been audited by the State Auditing Department for the year ending June 30, 1930.

The report includes:

1. University proper income and disbursements with schedules.
2. Florida Agricultural Experiment Station income and disbursements with schedules.
3. University custodian funds income and disbursements with schedules.
4. Balance sheet with schedules (including all departments and divisions).

Respectfully submitted,

K. H. GRAHAM,
Business Manager.

PART I

UNIVERSITY OF FLORIDA BUDGETARY FUNDS

INCOME AND DISBURSEMENTS FOR THE BIENNium ENDED JUNE 30, 1931, WITH THE
FOLLOWING SCHEDULES:

- A-1 1929-30 Distribution of Funds as to Type of Expense.
- A-2 1930-31 Distribution of Funds as to Type of Expense.
- B-1 1929-30 Distribution of Departmental Expenditures as to Type of Expense.
- B-2 1930-31 Distribution of Departmental Expenditures as to Type of Expense.
- C Building Fund Disbursements Distributed as to Buildings.

UNIVERSITY OF FLORIDA
INCOME AND DISBURSEMENTS
BIENNium 1929-1931

	BALANCE JULY 1, 1929	INCOME 1929-1930	INCOME 1930-1931	TOTAL INCOME 1929-1931	DISBURSEMENTS 1929-1930	DISBURSEMENTS 1930-1931	TOTAL DISBURSEMENTS 1929-1931	BALANCE JUNE 30, 1931	REVERTED JULY 1, 1931	BALANCE FORWARD JULY 1, 1931
University of Florida Salaries, Equipment and Operating Expense.....		\$ 754,949 50	\$ 805,414 50	\$1,560,364 00	\$ 690,712 01	\$ 832,051 37	\$1,522,763 38	\$ 37,600 62	\$37,600 62	.....
Morrill-Nelson Fund.....		25,000 00	25,000 00	50,000 00	25,000 00	25,000 00	50,000 00			
Agricultural College Fund.....	\$ 2,235 00	4,560 18	7,675 66	14,470 84	6,321 93	5,515 75	11,837 68	2,633 16		\$ 2,633 16
Seminary Interest Fund.....	365 15	3,339 45	3,058 29	6,792 89	3,629 60	424 10	4,053 70	2,709 19		2,709 19
University Incidental Fund.....	2,624 92	149,604 64	122,321 79	274,551 35	132,247 23	110,913 06	243,160 29	31,391 06		31,391 06
Department of Architecture.....	5,759 59	24,450 56	25,956 31	56,166 46	29,746 38	21,430 76	51,177 14	4,989 32		4,989 32
General Extension State Appropriation.....		46,470 00	46,470 00	92,940 00	46,469 86	46,470 11	92,940 00			
General Extension Incidental Fund.....	431 14	44,977 16	74,342 42	119,753 72	45,238 94	74,475 40	119,714 34	39 38		39 38
American Legion Interest Fund.....		2,200 00	2,200 00	4,400 00	2,000 00	2,400 00	4,400 00			
Chair of Americanism State Appropriation.....		2,500 00	2,500 00	5,000 00	2,500 00	2,435 10	4,935 10	64 90		64 90
Radio Station—State Appropriation.....		40,500 00	40,500 00	81,000 00	25,011 68	53,049 41	78,061 09	2,938 91		2,938 91
Radio Station—Incidental Fund.....	103 39	973 30	3,067 23	4,143 92	824 30	1,127 37	1,951 67	2,192 25		2,192 25
Permanent Building Fund—Chapter No. 14,573.....		199,629 14	199,880 91	399,510 05	85,502 57	178,586 28	264,088 85	135,421 20		135,421 20
Totals.....	\$11,522 19	\$1,299,153 93	\$1,358,387 11	\$2,669,063 23	\$1,095,204 53	\$1,353,878 71	\$2,449,083 24	\$219,979 99	\$40,604 43	\$179,375 56

FINANCIAL REPORT JUNE 30, 1931

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	STATE AP- PROPRIATION	UNIVERSITY INCIDENTAL FUND	DEPART- MENT OF ARCHI- TECTURE	AGRICUL- TURAL COLLEGE	CHAIR OF AMER- ICANISM — STATE APPROPRI- ATION	AMER- ICAN LEGIION INTEREST FUND	MORRILL- NELSON FUND	SEMINARY INTEREST FUND	GENERAL EXTENSION — STATE APPROPRI- ATION	RADIO STATION — STATE APPROPRI- ATION	RADIO STATION INCL- DENTAL FUND	TOTALS
New Buildings and Additions	\$ 2,236.75	\$ 19.35								\$ 118.15	\$121.00	2,495.25
Miscellaneous Equipment	1,638.55	679.90										2,318.45
Apparatus	9,735.11	5,889.38							3,472.41			19,098.48
Furniture and Fixtures	10,037.98	2,565.24							1,515.43			14,445.15
Machinery and Tools	2,183.69	979.17							21.00			3,197.47
Books	17,038.48	370.38						5.00	69.45			20,103.25
Live Stock		150.00										150.00
Student Labor	5,544.81	1,098.10						18.90	280.48			6,942.29
Salaries	511,679.91	82,635.21	\$27,003.73	\$6,321.93	\$2,500.00	\$2,000.00	\$3,629.00	35,083.75	9,311.11			773,454.52
Employees and Extra Labor	23,930.24	6,747.49	1,007.60					60.40	1,759.21	4.00		34,504.59
Stationery and Office Supplies	9,071.60	384.13	396.34					4,902.82	666.46	200.77		16,110.05
Incidentals	2,819.42	1,814.30	29.96					236.45	435.09	3,822.08	439.78	9,569.08
Laboratory and Educational Supplies	10,475.31	6,787.47						513.66	88.25			17,864.69
Materials and General Supplies	16,310.71	10,553.91	34.60					129.73	175.15			27,195.13
Repairs to Equipment	2,742.79	1,716.66	7.50					15.00	104.50			4,586.45
Telephone and Telegraph	2,916.18	543.17	210.55					215.00	577.19	4.35		4,487.65
Freight and Cartage	2,930.47	459.87	23.12					28.12	174.72	59.55	5.65	3,690.50
Feed	2,858.76	664.67										3,523.43
Traveling Expense	8,901.67	1,511.60	920.72					109.68	4,408.85	517.71		16,400.23
Printing Bulletins and Catalogues	6,571.08	3,123.94	202.26					1,907.79	46.43	48.75		11,900.25
Advertising	298.42	1,184.86						184.15	81.15	20.07		1,768.65
Fuel, Heat, Light and Power	10,781.08	2,193.40						70.62	2,415.30			15,460.40
Museum Equipment		175.00							173.00			175.00
Refunds												173.00
Totals	\$900,712.01	\$132,247.23	\$29,746.38	\$6,321.93	\$2,500.00	\$2,000.00	\$3,629.60	\$46,469.89	\$45,235.94	\$25,011.68	\$874.30	\$1,009,701.90

UNIVERSITY OF FLORIDA

STATE APPROPRIATION	UNIVERSITY AND INCIDENTAL OPERATING EXPENSE	DEPARTMENT OF AGRICULTURE	CHAIR OF AMERICAN STATE APPROPRIATION		MORRILL-NELSON FUND	SEMPER PARVUS INTEREST FUND	GENERAL EXTENSION STATE APPROPRIATION		RADIO STATION INCIDENTS		TOTAL	
			AMERICAN STATE APPROPRIATION	LEGION INTEREST FUND			GENERAL EXTENSION STATE APPROPRIATION	INCIDENTAL	RADIO STATION APPROPRIATION	INCIDENTS		
Roads and Walks	\$ 960.52		\$ 185.10	\$ 150.00			2,538.58	\$ 311.14	288.35		\$ 960.52	
Additional Buildings	4,045.12										4,132.62	
Miscellaneous Equipment	27,224.50							\$ 3,617.76			35,101.45	
Apparatus	9,889.84							8,515.38			19,203.77	
Furniture and Fixtures	31,478.00							2,290.14			42,492.35	
Machinery and Tools	4,249.87										4,738.75	
Books	24,826.88	2.73									30,766.65	
Collections	21.94										21.94	
Live Stock	611.25	25.00									631.25	
Student Labor	8,141.74	1,190.37									9,427.11	
Salaries	572,546.12	57,674.15	17,831.45	\$5,515.75	2,250.00	2,250.00	\$25,000.00	\$424.10	30,331.91	55,995.08	791,297.07	
Employees and Extra Labor	38,401.99	12,955.48	2,259.69					635.50	3,796.54	2,916.67	60,935.27	
Stationery and Office Supplies	13,261.34	1,994.46	340.75					5,271.86	1,640.65	1,731.49	24,250.58	
Incidentals	1,930.46	928.50	12.50					101.19	254.75	10.00	3,237.40	
Laboratory and Educational Supplies	16,694.39	4,011.44	109.86					103.67	103.43		21,098.16	
Materials and General Supplies	30,664.41	10,015.85	181.05					213.31	90.26	3,241.60	41,387.90	
Repairs to Equipment	4,354.59	286.63	8.19					101.33	1.50	140.90	4,929.14	
Telephone and Telegraph	2,848.92	507.58	143.17					490.57	163.60	2,796.56	7,135.14	
Freight and Cartage	7,510.65	1,744.70	9.14					3.11	166.19	251.23	9,687.17	
Feed	2,568.38	231.15									2,799.53	
Traveling Expense	8,989.68	1,485.81	511.10					1,861.05	10,693.15	1,428.72	24,880.51	
Printing Bulletins and Catalogs	6,790.83	1,511.01	21.13					3,669.57	526.75	181.00	12,700.29	
Advertising	1,271.70	457.05						172.00	211.93		2,162.18	
Fuel, Heat, Light and Power	8,725.25	1,415.15						2.00	157.60	5,084.22	15,384.22	
Commencement Expense	930.70	504.10									1,434.80	
Laundry	112.21	909.29									1,021.50	
Refunds								422.86			422.86	
	\$82,051.37	\$110,913.06	\$21,430.76	\$5,515.75	\$2,430.435	10 \$2,400.00	\$25,000.00	\$424.10	\$46,470.11	\$74,475.40	\$53,049.41	\$1,175,292.43

UNIVERSITY OF FLORIDA
EXPENSE BY COLLEGES AND DEPARTMENTS
FISCAL YEAR 1929-1930

EXPENSE ITEMS	FRESI- DENT'S OFFICE DEAN OF MEN	BUSINESS MANAGER'S OFFICE	REGIS- TRAR'S OFFICE	HEAT, LIGHT, POWER, COAL AND GAR	JANITORS AND SUPPLIES	DEPART- MENT OF MAIN- TENANCE	DEPART- MENT OF PUBLICITY	SOCIAL AND RELIGIOUS SERVICE	DEPART- MENT OF MUSIC	CAMPUS DEVELOP- MENT	ELEC- TRICAL DISTRIBU- TION	GEN- ERAL AD- MINIS- TRATIVE	COLLEGE OF AGRICUL- TURE	COLLEGE OF ARTS AND SCIENCES	COLLEGE OF COMMERCE AND JOUR- NALISM	COLLEGE OF ENGI- NEERING	COLLEGE OF LAW	COLLEGE OF PHARMACY	COLLEGE OF EDUCATION	ATHLETIC DEPART- MENT	LIBRARY	MILITARY DEPART- MENT	STATE MUSEUM	CONFIRMATORY SESSION	SUMMER SESSION	DEPART- MENT OF ARCHITEC- TURE	GENERAL EXTENSION DIVISION	RADIO STATION	TOTAL	
Salaries.....	\$21,590.56	\$21,173.63	\$13,747.45	\$ 974.86	\$14,293.25	\$ 9,254.25	\$7,140.00	\$6,500.00	\$8,940.00	\$ 2,400.00	\$450.00		\$ 77,199.66	\$137,072.17	\$46,429.43	\$72,764.18	\$32,050.00	\$41,421.68	\$27,802.80	\$22,761.47	\$17,413.13	\$6,070.00	\$ 9,300.1	\$8,021.00	\$62,820.20	\$27,003.73	\$73,343.03	\$ 9,341.11	\$ 775,557.32	
Employees and Extra Labor.....	33.86	316.91	674.33	2,411.46		5,711.04		248.09	5,611.97				9,238.43	831.51	28.46	602.34	3.85	1,522.35	130.42	2,946.81	105.30	200	1,997.75	479.34	1,007.60	1,074.95	2,043.69	36,823.71		
Stationery and Office Supplies.....	707.81	2,397.08	2,074.70			805.22	311.76		42.13			\$200.16	969.95	487.73	312.39	247.69	190.56	663.86	328.69		856.12	211.96	145	126.86	146.34	308.34	5,480.75	867.23	17,480.65	
Incidental Expense.....	10.00	323.35				10.50	5.00		60.00	30.26			75.60		24.00	15.00	40.00	1.50		10.00	363.68		75.60	709.53	29.96	671.54	4,261.86		16,834.45	
Laboratory and Education Supplies.....					25.00								1,858.74	3,034.06	12.01	1,924.82		9,500.57	.28					176.76		601.91			21,699.83	
Materials and General Supplies.....	797.80	289.24	116.36	510.31	1,379.94	3,067.48	1.20	12.42	191.27	550.60	321.43		4,268.26	444.49	89.26	2,295.15	6.48	1,368.56	20.12	15.15	365.97	675.10	721	3,812.15	108.04	34.60	129.73	175.15	21,699.83	
Repairs to Equipment.....	1.00	119.81	13.50		2.25	1,918.41			91.00	225.73			272.44	89.56		395.08	3.70	39.13	7.50		164.59		31	117.91		7.80	15.00	104.80	3,609.63	
Telephone and Telegraph.....	184.28	2,844.93	40.12	3.92			13.79		9.77				26.76	27.06	36.07	64.36	1.10	31.67	40.61		92.84	6.93		18.10	11.26	210.65	236.21	681.64	4,482.65	
Freight and Cartage.....	5.12	82.08	23.40	3,904.20	46.25	294.78	.96		6.38	86.71	152.21		252.85	116.36	5.07	297.27	3.47	314.47	5.68		179.34	97.43	62	83.04	22.89	23.12	202.84	65.20	6,303.34	
Travel Expense.....	2,898.21	55.89	216.26					1,315.56					2,492.98	283.61	584.09	243.82	75.18	978.80	907.49		14.65	115.26	229		920.72	4,519.53	547.71	16,398.23		
Fuel, Heat, Light and Power.....				6,933.75									436.72			1,098.32		1,377.71							86.50		70.62	2,415.30	14,277.35	
Printing Bulletins and Catalogues.....	270.88	1,071.66	5,419.53				288.55		19.30				97.34	1,509.40	216.15	7.25	223.23	96.72			8.00			23		1,154.53	202.26	1,967.79	95.19	12,791.27
Advertising.....		1,082.00											25.00													340.00		265.30	20.07	1,732.37
Commencement Expense.....	17.00	116.00	1,094.68																											1,827.68
Fed. Livestock.....													3,880.28					76.84												3,957.12
Books.....	15.75	23.46	15.08							60.00			115.36	160.90		24.32	2,070.28	546.71	102.32		14,443.07				9.87		2,624.94	69.46	20,221.50	
Laundry.....																														150.00
Apparatus.....		75.00	50.00		56.72								1,465.83	3,110.00		2,872.94		1,433.38			19.75			665.31		180.81	1.58	3,472.41	725.31	12,774.12
Furniture and Fixtures.....	594.27	2,077.27	2,637.84			231.82	34.20		476.00				137.84	1,469.33	1,178.67	506.90	138.05	1,786.90	361.17	89.00	773.20	240.26	67	467.24	72.87	326.50	1,515.43	15,044.93		
Machinery, Tools, Etc.....										299.25			1,278.00			1,269.02		74.50			157.50					13.61	21.00		9,379.90	
Equipment.....		145.94	261.81	913.53	99.54	49.02			329.65				442.45		1,828.00	459.81		214.00	94.76					4,083.12				239.15	2,900.90	
Buildings.....													2,661.76																	4,743.18
Campus Development (Contracts).....										4,743.18																				4,743.18
Collections.....																														175.00
Refunds.....																							175.00							175.00
Totals.....	\$27,020.54	\$32,194.21	\$26,915.12	\$15,652.03	\$16,092.95	\$21,286.12	\$7,705.46	\$6,512.42	\$9,789.06	\$13,950.70	\$450.00	\$673.70	\$106,665.93	\$148,336.18	\$50,440.60	\$55,088.27	\$34,805.90	\$61,449.65	\$29,801.54	\$22,615.62	\$37,277.47	\$9,256.14	\$11,466	\$10,937.15	\$69,921.25	\$29,746.38	\$91,708.83	\$25,835.98	\$1,009,701.96	

UNIVERSITY OF FLORIDA
EXPENSE BY COLLEGES AND DEPARTMENTS
FISCAL YEAR 1930-1931

EXPENSE ITEM	PRESIDENT'S OFFICE AND DEAN OF MEN	BUSINESS MANAGER'S OFFICE	REGISTRAR'S OFFICE	DEAT. LIGHT, POWER, COAL AND GAS	JANITORY AND MISCELLANEOUS SUPPLIES	STUDENT UNION	DEPARTMENT OF PUBLICITY	SOCIAL AND RELIGIOUS SERVICE	DEPARTMENT OF MUSIC	CAMPUS DEVELOPMENT	ELECTRICAL DISTRIBUTION	MILITARY DEPARTMENT	STATE MUSEUM	INSTITUTE OF INTER-AMERICAN AFFAIRS	GENERAL ADMINISTRATIVE	COLLEGE OF AGRICULTURE	COLLEGE OF ARTS AND SCIENCES	COLLEGE OF COMMERCE AND JOURNALISM	COLLEGE OF ENGINEERING	SCHOOL OF ARCHITECTURE	COLLEGE OF LAW	COLLEGE OF PHARMACY	COLLEGE OF EDUCATION	GRADUATE SCHOOL	ATHLETIC DEPARTMENT	LIBRARY	INFIRMARY	SUMMER SCHOOL	DEPARTMENT OF ARCHITECTURE	GENERAL EXTENSION DIVISION	RADIO STATION	TOTAL					
Salaries	\$24,282.40	\$21,599.85	\$12,634.53	\$ 688.09	\$10,810.28	\$ 800.00	\$2,400.00	\$6,500.00	\$6,900.00	\$ 2,400.00	\$ 453.70	\$ 7,055.00	\$ 7,470.00			\$ 76,396.00	\$150,803.76	\$52,560.00	\$46,538.92	\$11,209.00	\$30,690.00	\$46,676.00	\$39,229.57	\$11,550.00	\$23,800.25	\$22,636.07	\$9,834.66	\$40,026.48	\$17,831.45	\$ 66,356.90	\$21,415.51	\$ 799,637.77					
Employees and Extra Labor	367.08	861.00	737.09	2,217.13	2,163.34	30.62			247.63	10,110.08	1,677.10	1,023.20	396.99	118.00	1,306.09	11,176.83	285.74	27.90	1,455.25	67.10	3,483.42	159.20	67.08	1,304.03	180.68	1,444.83	2,300.01	2,259.69	4,497.04	2,916.07	62,043.15						
Stationery and Office Supplies	1,129.18	3,314.90	2,821.83	27.20	59.08	18.21	80.73	11.05	116.63		4.70	182.32	311.78	131.64	2,471.64	632.03	969.29	344.42	241.97	55.22	59.60	540.97	284.36		110.89	795.34	107.31	603.03	340.76	6,012.51	1,741.62	23,971.39					
Incidental Expense	186.00	581.00	5.00	172.50		14.70					28.60	7.05	585.35	49.35		224.08	1.32	35.00	19.62		49.66	185.29	12.83					488.54	12.50	355.94	10.00	3,050.65					
Laboratory and Educational Supplies	114.00																																				
Materials and General Supplies	47.60	135.12	89.06	709.11	1,621.76	13.27	78.80		207.13	2,932.49	1,014.64	2,252.15	698.35	60.70	1,111.74	6,073.92	827.75	216.19	2,568.93	60.41	4.85	1,492.63	32.25			9.60	713.12	130.22	4,383.36	2,425.40	181.05	303.66	3,223.03	39,997.00			
Repairs to Equipment		328.11	5.00	115.51	64.54	18.83	2.50	53.03	93.81		6.07	133.23	32.56	49.11		46.22	13.16	21.85	27.82																		
Telephone and Telegraph	162.30	2,436.17	78.60	8.47			18.83	2.50	53.03		6.07	133.23	32.56	49.11		46.22	13.16	21.85	27.82		2.85	33.19	21.14			260.88	39.40	69.90	36.03	143.17	654.17	2,981.60	7,154.75				
Freight and Cartage	25.03	155.83	20.99	4,970.73	71.18	29.10		72.01	31.10	272.68	616.14	244.95	109.13		471.55	562.71	181.14	36.57	624.45	12.79	21.11	525.73	1.81		377.23		220.89	105.20	165.70	9.14	169.60	253.08	10,502.91				
Travel Expense	1,996.16	118.07	273.16					74.17	830.02	65.67		87.50	160.29	287.17	175.95	2,455.62	913.37	857.57	211.88		109.00	644.30	1,090.80			45.89		228.39		312.80	611.10	12,464.20	1,429.72	24,913.03			
Fuel, Heat, Light and Power				6,885.80									895.60			354.18	62.46					1,292.82															
Printing Bulletins and Catalogues	251.20	1,421.48	4,801.52				109.95	13.60	2.70			65.00		290.65	15.00	17.75		532.15				17.45	5.76	205.90													
Advertising	168.25	1,333.09					218.30							35.00	35.00	80.00																					
Commemorative Expense	350.00	299.30	1,040.16																																		
Feed																2,484.71						98.79															
Livestock																622.00						14.25															
Books	32.93	25.55	7.87										34.00			265.29	2.25	131.32	84.05			2,184.34	1,251.37	165.63	8,859.52			12,961.02	15.00	872.44	2.73	2,849.72	288.35				
Laundry																																					
Apparatus									176.04																												
Furniture and Fixtures																3,656.29	3,779.12		653.33	141.76		3,201.82	5.00	236.73													
Machinery and Tools	1,397.68	6,680.28	1,187.93						12.76			502.52	5,747.64	155.65	2,830.92	2,986.01	1,476.46	1,584.61	1,170.84	454.06		9,958.76	786.70					4,921.60	3,188.83	496.65							
Equipment				265.00	35.85	99.57					1,114.75	209.06			60.10	703.90						320.20															
Additions to Buildings		94.07		1,979.85	25.00	470.92			1,172.04	166.95	8,819.67	683.60	97.20		1,052.35	1,769.66	46.00		1,670.71			94.50	24.17			36.00	298.00	4,363.46									
Roads and Walks				1,549.86											4,844.09	661.88																					
Campus Development																																					
Refunds																																					
Total	\$30,465.66	\$38,393.48	\$23,708.63	\$10,890.45	\$15,098.61	\$720.51	\$3,527.67	\$6,601.75	\$9,832.17	\$18,881.00	\$12,603.35	\$13,453.75	\$15,602.05	\$1,117.92	\$14,697.10	\$114,307.15	\$162,521.75	\$50,235.80	\$58,363.65	\$12,184.68	\$33,386.09	\$79,616.71	\$41,940.74	\$21,830.16	\$26,590.82	\$42,449.87	\$24,613.45	\$46,424.29	\$21,430.70	\$120,945.61	\$54,176.75	\$1,175,202.43					

* This includes the expense of moving and rebuilding the old infirmary for use as the service department and F Club room.

BUILDING FUND DISBURSEMENTS

1929-1931

UNIVERSITY OF FLORIDA, CHAPTER NO. 12012—1929-1930.

New Dormitory	\$ 33,926.78
Artillery Unit	7,353.17
Central Heating Plant	13,696.53
	<hr/>
Total	\$ 54,976.48
	<hr/>
Total Disbursements from Chapter No. 12012, 1929-31.....	\$ 54,976.48

UNIVERSITY OF FLORIDA, CHAPTER NO. 14573—1929-1930.

New Dormitory	\$ 33,357.47
Artillery Unit	264.91
Central Heating Plant	40,168.69
Land	10,000.00
Everglades Experiment Station	1,011.50
Remodeling Thomas Hall	700.00
	<hr/>
Total Disbursements—Chapter No. 14573, 1929-30.....	\$ 85,502.57

UNIVERSITY OF FLORIDA, CHAPTER NO. 14573—1930-1931.

Infirmary	\$ 87,272.90
Library	28,880.73
Central Heating Plant	24,936.80
Remodeling Thomas Hall	5,544.46*
Chemistry-Pharmacy	450.00
Everglades Experiment Station.....	31,501.34
	<hr/>
Total Disbursements—Chapter No. 14573, 1930-31.....	\$178,586.28
	<hr/>
Total Disbursements from Chapter No. 14573—1929-1931.....	\$264,088.85

*An additional \$10,000.00 for the remodeling of Thomas Hall was paid from Cafeteria Funds.

PART II

FLORIDA AGRICULTURAL EXPERIMENT STATION RECEIPTS AND
DISBURSEMENTS WITH SCHEDULES

A-1 1929-30 Distribution of Funds as to Type of Expense

A-2 1930-31 Distribution of Funds as to Type of Expense

EXPERIMENT STATION
INCOME AND DISBURSEMENTS
Bicennium 1929-1931

	BALANCE JULY 1, 1929	INCOME 1929-30	INCOME 1930-31	TOTAL INCOME 1929-31	DISBURSE- MENTS 1929-30	DISBURSE- MENTS 1930-31	TOTAL DISBURSE- MENTS 1929-31	BALANCE JUNE 30, 1931	REVERTED JULY 1, 1931	BALANCE FORWARD
Hatch Fund, Federal.....		\$ 15,000.00	\$ 15,000.00	\$ 30,000.00	\$ 15,000.00	\$ 15,000.00	\$ 30,000.00			
Adams Fund, Federal.....		15,000.00	15,000.00	30,000.00	15,000.00	15,000.00	30,000.00			
Purnell Fund, Federal.....		60,000.00	60,000.00	120,000.00	60,000.00	60,000.00	120,000.00			
Main Station, Incidental Fund.....	\$ 4,722.50	207,247.93	20,169.14	47,399.66	21,573.53	13,261.18	34,834.71	\$12,561.95		\$12,561.95
Main Experiment Station Fund.....		267,245.00	267,245.00	534,490.00	213,425.71	311,065.43	524,491.14	10,005.86	\$10,005.86	
Citrus Experiment Station Fund.....		15,950.00	15,950.00	31,900.00	15,709.75	16,190.25	31,900.00			
Tobacco Experiment Station Fund.....		25,600.00	25,600.00	51,200.00	23,182.86	27,997.20	51,180.06	19.94	19.94	
Everglades Experiment Station Fund, Chap- ter No. 11808.....		63,100.00	63,100.00	126,200.00	57,298.44	68,893.39	126,191.83	8.17	8.17	
Everglades Experiment Station Fund, Chap- ter No. 8442.....		5,000.00	5,000.00	10,000.00	5,000.00	5,000.00	10,000.00			
Everglades Station, Incidental Fund.....	3,415.74		64.86	3,480.60		25.00	25.00	3,455.60		3,455.60
Farmers' Week.....		2,500.00	2,500.00	5,000.00	2,477.04	2,522.27	4,999.28	.72	.72	
State Smith-Lever Fund.....		48,872.25	48,872.25	97,744.50	48,870.73	48,873.77	97,744.50			
Federal Smith-Lever Fund.....	33.70	58,838.55	58,872.25	117,714.50	58,872.25	58,872.25	117,744.50			
Federal Smith-Lever Interest Fund.....	343.68		443.16	1,573.91	263.26	\$41.09	1,104.35	469.56		469.56
Federal Lever Supplemental Fund.....		18,774.46	18,774.46	37,548.92	18,774.46	18,771.46	37,548.92			
Federal Lever Supplemental Interest Fund.....	352.25		237.52	727.97				727.97		727.97
Extending County Agent Work.....		25,180.00	25,180.00	50,360.00	16,787.38	25,501.29	42,288.67	8,071.33	8,071.33	
Boys' Short Course.....		300.00	300.00	600.00	299.98	291.55	591.53	5.47	5.47	
Florida National Egg-Laying Contest.....		12,500.00	12,500.00	25,000.00	7,000.00	10,368.53	17,368.53	7,631.47	7,631.47	
Federal Capper-Ketchum Fund.....	2,862.38	23,009.34	25,914.28	51,813.00	25,911.28	25,871.72	51,813.00			
Federal Capper-Ketchum Interest Fund.....			24.45	24.45						24.45
Watermelon Disease Investigation.....		15,000.00	10,000.00	25,000.00	13,815.56	11,024.75	24,840.31	159.69	159.69	
Sub-Tropical Experiment Station Fund.....		15,000.00	15,000.00	30,000.00	8,114.07	21,882.38	29,996.45	3.55	3.55	
Federal Fund for Additional Cooperative Agricultural Extension.....			22,000.00	22,000.00	20,315.82		20,315.82	1,651.48	1,651.48	
Federal Fund for Additional Cooperative Agricultural Extension Interest Fund.....			35.09	35.09				35.09		35.09
Total.....	\$11,730.31	\$710,460.98	\$727,645.28	\$1,449,842.60	\$627,406.27	\$777,595.03	\$1,405,004.30	\$44,838.30	\$25,906.20	\$18,932.10

EXPENDITURES BY FUNDS

FISCAL YEAR 1929-1930

	BATR	ADAMS	FURNELL	MAIN STATION	CITRUS STATION	EVER-GLADES EXPERIMENT STATION	TOBACCO STATION	MAIN STATION INCIDENTAL SALES	SUB-TROPICAL STATION	WATER-MELON DISEASE INVESTIGATION	FEDERAL SMITH-LEVER	STATE SMITH-LEVER	FEDERAL CAPPER-KETCHAM	COUNTY AGENT WORK	FEDERAL S. L. INTEREST	FEDERAL LEVER SFP	BOYS' SHORT COURSE	FLA. NAT'L EGG LAYING CONTEST	FARMERS' WEEK	TOTAL
Salaries.....	\$15,000.00	\$15,000.00	\$10,230.00	\$109,969.99	\$ 5,457.77	\$14,014.90	\$ 5,650.00	\$ 4,272.73	\$1,050.00	\$ 2,633.34	\$58,872.25	\$13,867.53	\$25,315.42	\$16,787.38	.....	\$18,774.46	.....	\$2,200.00	.....	\$349,125.77
Labor.....	6,163.24	26,764.77	2,822.16	14,613.32	3,635.91	2,688.57	1,041.37	.....	829.82	.....	62.30	312.86	.....	.....	.....	.....	\$100.40	\$2,071.56	\$ 442.22	61,548.50
Stationery and Office Supplies.....	.....	335.38	3,080.32	30.02	428.45	25.72	464.03	.....	9.00	.....	2,999.71	.....	.....	.....	.....	.....	.....	265.26	519.98	8,158.47
Laboratory Supplies.....	2,014.12	4,814.51	180.65	1,484.96	303.25	272.86	441.30	.....	158.62	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	9,670.27
Feeds.....	843.53	5,039.48	412.72	93.70	121.32	4,321.93	.....	.....	1.45	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	10,864.13
General Supplies.....	1,071.59	5,119.41	387.19	2,285.03	421.96	1,521.31	80.23	.....	96.67	.....	428.25	.....	.....	\$ 87.26	.....	.....	10.50	1,853.57	568.95	13,931.78
Fertilizers.....	151.00	1,283.65	1,077.11	544.24	496.99	441.40	.....	.....	204.75	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7,199.14
Telephone and Telegraph.....	17.60	1,831.03	93.55	223.14	69.07	86.97	.....	.....	13.67	.....	409.45	.....	.....	.....	.....	.....	.....	61.70	25.78	2,835.86
Travel Expense.....	3,402.20	11,982.03	255.10	1,251.53	660.80	439.80	37.91	.....	383.41	.....	24,785.54	.....	.....	151.85	.....	.....	.....	.....	617.36	43,968.08
Freight and Cartage.....	90.53	1,563.95	55.58	489.40	156.41	547.76	.....	.....	59.80	.....	10.04	.....	.....	.....	.....	.....	.....	35.00	191.96	3,227.93
Printing.....	1,651.09	4,907.50	.....	.....	.....	91.70	.....	.....	.....	.....	5,209.19	.....	.....	13.65	.....	.....	.....	.....	29.50	11,903.32
Fuel, Heat, Light and Power.....	7.75	3,855.92	600.44	2,389.00	279.97	1,035.07	32.51	.....	89.28	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8,460.37
Furniture and Fixtures.....	1,343.83	4,085.97	60.00	814.40	529.75	303.95	371.01	.....	1,445.58	.....	1,003.47	.....	.....	7.00	.....	.....	109.04	.....	.....	10,104.00
Books.....	28.41	3,300.52	27.13	517.67	71.31	108.67	.....	.....	31.93	.....	3.96	.....	.....	.....	.....	.....	.....	.....	10.00	4,159.63
Equipment, Misc Live Stock.....	1,610.59	7,280.50	306.37	354.72	257.80	1,567.34	1,400.45	.....	872.14	.....	20.99	313.00	.....	.....	.....	.....	10.49	43.11	9.90	13,997.46
Machinery and Tools.....	132.25	617.77	265.00	.....	1,060.72	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2,075.74
Buildings and Land.....	230.05	3,716.44	477.01	3,608.66	203.58	738.66	.....	.....	239.74	.....	36.40	.....	.....	.....	.....	.....	.....	.....	.....	9,271.47
Miscellaneous Expenses.....	641.94	10,306.09	2,980.37	18,404.79	10,280.56	1,072.26	3,552.29	.....	6,746.36	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	54,184.63
.....	13.20	861.81	190.73	550.53	18.40	537.77	107.00	.....	.....	.....	33.90	.....	.....	3.50	.....	.....	34.55	186.11	182.12	2,719.72
Total.....	\$15,000.00	\$15,000.00	\$90,080.00	\$213,125.71	\$16,700.75	\$62,208.44	\$23,182.86	\$21,573.53	\$8,114.07	\$13,815.56	\$58,872.25	\$48,870.73	\$25,941.28	\$16,787.38	\$263.26	\$18,774.46	\$209.98	\$7,000.00	\$2,477.01	\$627,406.27

EXPENDITURES BY FUNDS

FISCAL YEAR 1930-1931

	HATCH	ADAMS	FURNELL	MAIN STATION	MAIN STATION INCIDENTAL	CITRUS STATION	TOBACCO STATION	EVER-GLADES STATION	WATER-MELON INVESTIGATION	SUB-TROPICAL STATION	FEDERAL SMITH-LEVER FUND	EVER-GLADES INCIDENTAL FUND	FEDERAL SMITH-LEVER INTER-EST	LEVER SUPPLEMENTAL	CAPPER-KETCHAM	ADDITIONAL COOPERATION	STATE SMITH-LEVER	EXTENSION COUNTY AGENTS WORK	FARMERS' WEEK	EGO CONTEST	BOYS' SHORT COURSE	TOTAL
Salaries	\$15,000.00	\$15,000.00	\$42,276.67	\$140,509.97	\$ 1,500.00	\$ 5,800.00	\$ 8,799.99	\$27,306.43	\$ 5,600.00	\$ 4,800.00	\$58,872.25		\$ 47.50	\$18,664.89	\$25,871.72	\$15,282.63	\$13,673.11	\$23,417.25	\$ 49.85	\$ 3,655.00		\$126,127.25
Employees and Extra Labor			7,176.56	37,348.62	2,100.76	4,196.60	4,746.42	12,109.53	1,325.95	5,305.90			63.25				25.55	123.50	405.88	2,314.35	\$51.80	77,294.67
Stationery and Office Supplies			142.68	5,741.42	64.73	160.35	133.91	339.37	98.62	109.54			25.30			470.24	3,211.70	438.99	477.39	608.60		12,022.74
Laboratory Supplies			1,547.24	7,249.49	110.25	324.13	106.91	2,056.01	560.41	599.81												12,514.25
Feeds			843.23	8,883.89	347.00	490.23	344.51	91.52	90													11,001.28
General Supplies			898.07	6,975.51	407.11	685.96	1,404.17	3,446.12	421.00	1,082.55			113.61			92.94	504.62	201.38	693.41	2,440.91	65.29	19,429.65
Fertilizers			301.93	4,626.52	101.07	1,303.53	739.93	617.16	346.67	338.83												8,375.64
Telephone and Telegraph				1,624.27		73.60	63.65	131.55	24.74	31.24			24.46			12.02	643.92	12.17	2.92	61.87		2,709.71
Travel Expense			3,133.14	14,845.66	293.72	357.13	382.35	1,325.08	518.27	733.38			116.82	109.57		2,373.99	25,242.76	704.63	531.03	55.83		50,723.30
Freight and Cartage			149.99	2,011.06	290.57	41.95	294.94	632.85	18.20	257.17		\$25.00	17.92			7.00	25.31		57.41	275.94		4,165.01
Printing Bulletins and Catalogs			1,439.25	15,960.00			95										3,664.46					21,246.02
Fuel, Heat, Light and Power			39.52	7,484.81	299.57	489.58	574.13	2,817.35	101.51	591.45			4.48			5.50	43.25	68.00		113.30		12,632.75
Furniture and Fixtures			270.78	7,063.23	384.15	327.46	192.53	4,263.12	637.40	667.49			1.25			2,037.90	1,317.82	454.12	33.00		137.46	17,791.21
Books			14.00	4,090.19	6.00		42.31	242.22	854.61	23.36	117.21					16.00	39.65			9.77		5,455.82
Apparatus			552.71	4,463.30		335.57	25.76	1,466.37	390.56	548.41							58.21					7,834.19
Live Stock			545.25	686.93	1,437.15		185.00			168.30												2,772.63
Machinery and Tools			375.35	10,301.33	339.08	546.32	1,578.83	5,697.65	205.38	1,881.49			3.50			13.25	116.39		12.13	227.81		21,298.41
Buildings and Land			293.63	29,301.09	5,332.29	912.58	7,926.75	10,627.61	742.09	4,884.12												59,730.66
Incidental Expense			200.00	1,901.20	247.73	99.65	306.95	111.23	9.39	102.49				423.00		34.05	307.32	81.25	259.25	420.39	40.00	4,543.90
	\$15,000.00	\$15,000.00	\$60,000.00	\$311,058.43	\$13,261.18	\$16,190.25	\$27,997.20	\$73,893.39	\$11,024.75	\$21,882.38	\$58,872.25	\$25.00	\$841.09	\$18,774.46	\$25,871.72	\$20,345.52	\$48,873.77	\$25,501.29	\$2,522.27	\$10,368.53	\$294.55	\$777,598.03

PART III

UNIVERSITY OF FLORIDA CUSTODIAN FUNDS
BALANCE SHEET WITH SCHEDULES

- A University Cafeteria
- B Old Dormitories
- C New Dormitories
- D Student Activity
- E Student Cash Deposit Account
- F University Bookstore
- G Scholarship Accounts
- H University Sport Shop
- I Room Reservation and Damage Fund
- J Laboratory Breakage Accounts
- K Southern Railway Fund
- L Vocational Fund
- M Locker Service Fund
- N National Academy of Research
- O R. O. T. C. Account
- P Return Check Account—General Extension Division
- Q Florida Agricultural Experiment Station
- R University Incidentals

CUSTODIAN

BALANCE

June 30.

ASSETS

CURRENT ASSETS:

Cash on Hand.....		\$ 505.13
First National Bank, Checking Account.....	\$ 2,393.96	
First National Bank, Savings Account.....	<u>12,627.67</u>	15,021.63
Phifer State Bank, Checking Account.....		14,577.51
Florida National Bank, Checking Account.....	8,877.55	
Florida National Bank, Savings Account.....	<u>10,106.65</u>	18,984.20
First National Bank, Fla. Agri. Exp. Station.....		8,596.80
Vouchers of J. B. Goodson, Cashier, submitted to Board of Control.....		8,776.60
Bonds.....		50.00
Petty Cash—Book Store.....	100.00	
Cafeteria.....	<u>40.00</u>	140.00

 \$66,651.87

Protection by Security Bonds in the Amount of—	<u>50,000.00</u>
First National Bank.....	\$40,000.00
Phifer State Bank.....	17,000.00
Florida National Bank.....	<u>10,000.00</u>
	<u>20,000.00</u>

Rate of Interest Received on Savings:

3 Percent on Savings Deposits

 $\frac{1}{2}$ Percent Charged to Cover Premium on Bonds

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3 $\frac{1}{2}$ Percent—Total

ACCOUNTS

SHEET
1931

LIABILITIES

CURRENT LIABILITIES:

University Cafeteria.....	\$ 2,228 59
Room Rent, Old Dormitories.....	8,138 40
Room Rent, New Dormitories.....	11,040 51
Student Activities.....	7,687 25
Student Cash Deposit Account.....	3,991 27
Book Store.....	8,781 94
Scholarships.....	1,506 87
University Sport Shop.....	190 80
Room and Damage Fund.....	6,886 62
Chemistry and Breakage Fund.....	2,085 62
Pharmacy Breakage Fund.....	132 61
Electrical Engineering Breakage.....	86 24
Biology Breakage.....	1,203 77
Physics Breakage.....	73 85
Southern Railway Loan Fund.....	376 26
Vocational Fund.....	308 45
Locker Fund.....	7 50
National Academy Research.....	282 93
R. O. T. C. Fund.....	44 14
Returned Check Account—General Extension.....	1 75
Florida Agricultural Experiment Station.....	8,596 80

 \$66,651 87

SCHEDULE "A"

UNIVERSITY CAFETERIA
RECEIPTS AND DISBURSEMENTS
July 1, 1929, to June 30, 1931

RECEIPTS	1929-30	1930-31	
Cash Balance, July 1, 1929			\$ 31,283.54
July	\$ 2,665.73	\$ 8,472.35	
August	4,879.46	2,156.52	
September	23,549.87	10,251.29	
October	7,121.90	9,469.29	
November	7,046.22	7,357.41	
December	44.15	4,747.84	
January	6,293.20	6,232.68	
February	16,902.97	7,529.32	
March	6,268.47	7,300.07	
April	5,245.75	6,197.95	
May	3,852.20	4,136.28	
June	11,679.51	9,446.30	
	<hr/>	<hr/>	
	\$ 95,549.43	\$ 83,297.30	\$178,846.73
			<hr/>
			\$210,130.27
DISBURSEMENTS			
July	\$ 11,149.36	\$ 15,120.70**	
August	5,272.20	7,229.26**	
September	7,415.83	16,843.69*	
October	7,916.74	9,330.29	
November	10,009.14	11,229.05	
December	7,702.98	5,869.14	
January	7,844.29	6,348.51	
February	7,245.19	6,580.82	
March	9,112.02	6,523.12	
April	9,937.13	5,869.12	
May	6,300.47**	6,380.09	
June	13,410.31**	7,262.23	
	<hr/>	<hr/>	
	\$103,315.66	\$104,586.02	\$207,901.68
			<hr/>
			Cash Balance, June 30, 1931.....\$ 2,228.59

*Of this amount \$10,000.00 was paid on contract for remodeling Section D, Thomas Hall.

**\$8,068.20 of this amount was expended for steam tables and other equipment used in converting the old style Commons into Cafeteria Service.

SCHEDULE "B"

BUCKMAN AND THOMAS HALLS DORMITORY ACCOUNT

RECEIPTS AND DISBURSEMENTS
July 1, 1929, to June 30, 1931

Receipts for Biennium	\$ 32,178.71
Disbursements for Biennium	21,040.61
	<hr/>
Balance, June 30, 1931.....	\$ 8,138.10

SCHEDULE "C"

NEW DORMITORY ACCOUNT

RECEIPTS AND DISBURSEMENTS
July 1, 1929, to June 30, 1931

Receipts	\$ 30,712.43
Disbursements	16,671.92
	<hr/>
Balance, June 30, 1931	\$ 14,040.51

SCHEDULE "D"

STUDENT ACTIVITY ACCOUNTS

RECEIPTS AND DISBURSEMENTS
July 1, 1929, to June 30, 1931

Name of Account	Balance July 1, 1929	Receipts	Disburse- ments	Balance June 30, 1931
Athletic Funds:				
Major Sports		\$ 42,555.00	\$ 42,670.00	\$ 115.00*
Minor Sports		8,513.00	8,511.00	2.00
Florida Alligator	\$ 1,659.89	8,595.22	7,434.82	2,820.29
Literary Society Fund.....	306.96	1,076.35	1,228.42	154.89
Literary Society Sinking Fund		407.50	348.94	58.56
Debating Council	49.21	3,342.32	3,361.54	29.99
Lyceum Council	6.65	5,369.78	5,375.43	1.00
Gymnasium Fund	213.88	2.50	216.38	.....
Seminole	1,107.30	24,361.23	21,306.11	4,162.42
"F" Book	21.93*	1,049.75	849.21	178.61
Swimming Pool		10,628.50	10,626.00	2.50
Glee Club	6.89*	1,510.09	1,502.60	.60
Special Fund	138.28	4,894.87	4,665.19	367.96
Junior Fund		330.00	330.00	.....
Freshman Cap Fund.....		589.75	589.75	.....
Interest—Business Mgr's Office		224.01	200.58	23.43
	<hr/>	<hr/>	<hr/>	<hr/>
	\$ 3,453.35	\$113,449.87	\$109,215.97	\$ 7,687.25

*Debit Balance.

SCHEDULE "E"

STUDENTS' CASH DEPOSIT ACCOUNT

RECEIPTS AND DISBURSEMENTS

July 1, 1929, to June 30, 1931

Balance, July 1, 1929.....	\$	177.80
Receipts for Biennium		104,762.72
		<hr/>
Total	\$	104,940.52
Withdrawals for Biennium		100,949.25
		<hr/>
Balance, June 30, 1931	\$	3,991.27

SCHEDULE "F"

UNIVERSITY OF FLORIDA BOOK STORE

RECEIPTS AND DISBURSEMENTS

July 1, 1929, to June 30, 1931

RECEIPTS	1929-30	1930-31	
Cash Balance, July 1, 1929.....			\$ 4,517.99
July	\$ 1,624.05	\$ 1,363.33	
August	255.08	852.38	
September	12,105.08	16,724.87	
October	6,384.32	7,011.32	
November	2,669.44	1,849.88	
December	1,610.22	1,899.07	
January	1,761.88	1,695.31	
February	7,238.21	8,854.10	
March	2,800.72	2,266.20	
April	1,665.30	1,223.02	
May	1,603.86	1,600.29	
June	5,789.88	5,751.40	
	<hr/>	<hr/>	
	\$ 45,508.04	\$ 51,091.17	\$ 96,599.21
			<hr/>
			\$101,117.20
DISBURSEMENTS			
July	\$ 2,502.34	\$ 2,131.31	
August	2,240.00	1,337.14	
September	8,242.04	3,896.16	
October	1,473.36	16,394.71	
November	9,014.12	3,469.85	
December	5,900.35	3,860.48	
January	964.02	2,772.83	
February	4,142.82	1,799.32	
March	5,474.97	3,491.92	
April	1,367.44	4,297.78	
May	1,587.23	3,127.89	
June	1,870.28	976.90	
	<hr/>	<hr/>	
	\$ 44,778.97	\$ 47,556.29	\$ 92,335.26
			<hr/>
Balance, June 30, 1931.....			\$ 8,781.94

SCHEDULE "G"

SCHOLARSHIP ACCOUNTS

RECEIPTS AND DISBURSEMENTS

July 1, 1929, to June 30, 1931

Balance, July 1, 1929.....	\$	878.25
Receipts for Biennium.....		98,034.31
		<hr/>
Total	\$	98,912.56
Withdrawals for Biennium		97,405.69
		<hr/>
Balance, June 30, 1931	\$	1,506.87

SCHEDULE "H"

UNIVERSITY SPORT SHOP

RECEIPTS AND DISBURSEMENTS

July 1, 1929, to June 30, 1931

RECEIPTS FROM SALES	1929-30	1930-31	
Balance of Cash, July 1, 1929.....			\$ 554.66
July	\$ 51.67	.....
August	24.22	\$ 14.14	
September .....	.....	.....
October	616.00	870.06	
November	223.51	54.30	
December	19.85	33.23	
January	100.82	29.25	
February	139.40	94.55	
March	133.50	187.84	
April	56.10	63.72	
May	67.65	77.15	
June	129.84	34.75	
	<hr/>	<hr/>	
	\$ 1,562.56	\$ 1,458.99	\$ 3,021.55
			<hr/>
			\$ 3,576.21

DISBURSEMENTS

July	\$ 3.50	\$ 1.80	
August	7.26	15.00	
September .....	.....	.....
October	3.40	12.80	
November	291.06	228.60	
December	52.82	159.25	
January	387.80	59.13	
February	387.59	7.20	
March	32.05	1,126.59	
April	127.21	150.62	
May .....	.....	1.40	
June	30.33	.....
	<hr/>	<hr/>	
	\$ 1,323.02	\$ 2,062.39	\$ 3,385.41
			<hr/>
Balance, June 30, 1931.....			\$ 190.80

SCHEDULE "I"

ROOM RESERVATION AND DAMAGE FUND

RECEIPTS AND DISBURSEMENTS

July 1, 1929, to June 30, 1931

Balance, July 1, 1929	\$ 4,899.70
Receipts for Biennium	16,163.00
	<hr/>
Total	\$ 21,062.70
Refunds made during Biennium.....	14,176.08
	<hr/>
Balance, June 30, 1931.....	\$ 6,886.62
Balance consists of:	
374 Girls' Reservations @ \$5.00.....	\$ 1,870.00
489 Boys' Reservations @ \$10.00.....	4,893.00
Miscellaneous—to cover keys lost and general damage	123.62
	<hr/>
	\$ 6,886.62

SCHEDULE "J"

LABORATORY BREAKAGE

RECEIPTS AND DISBURSEMENTS

July 1, 1929, to June 30, 1931

Account	Balance July 1, 1929	Receipts	Disburse- ments	Balance June 30, 1931
Biology	\$ 3,793.00	\$ 3,793.00	\$ 2,589.23	\$ 1,203.77
Chemistry	1,587.24	7,739.83	7,241.45	2,085.62
Electrical Engineering	17.35	875.60	806.71	86.24
Pharmacy	123.72	555.78	546.89	132.61
Physics		954.00	880.15	73.85
	<hr/>	<hr/>	<hr/>	<hr/>
	\$ 1,728.31	\$ 13,918.21	\$ 12,064.43	\$ 3,582.09

SCHEDULE "K"

SOUTHERN RAILWAY LOAN FUND

RECEIPTS AND DISBURSEMENTS

July 1, 1929, to June 30, 1931

Balance, July 1, 1929.....	\$ 7.62
Receipts for Biennium	668.64
	<hr/>
Total	\$ 676.26
Disbursements for Biennium	300.00
	<hr/>
Balance, June 30, 1931	\$ 376.26

SCHEDULE "L"

VOCATIONAL FUND

RECEIPTS AND DISBURSEMENTS

July 1, 1929, to June 30, 1931

Balance, July 1, 1929	\$	528.37
Disbursements for Biennium		219.92
		-
Balance, June 30, 1931	\$	308.45

SCHEDULE "M"

LOCKER SERVICE FUND

REPORT OF RECEIPTS AND DISBURSEMENTS

July 1, 1929, to June 30, 1931

Receipts for Biennium	\$	10,210.50
Disbursements and Refunds		10,203.00
		-
Balance, June 30, 1931	\$	7.50

SCHEDULE "N"

NATIONAL ACADEMY OF RESEARCH FUND

RECEIPTS AND DISBURSEMENTS

July 1, 1930, to June 30, 1931

Receipts	\$	985.00
Disbursements		702.07
		-
Balance, June 30, 1931	\$	282.93

SCHEDULE "O"

R. O. T. C. ACCOUNT

RECEIPTS AND DISBURSEMENTS

July 1, 1930, to June 30, 1931

Receipts	\$	7,356.80
Disbursements		7,312.66
		-
Balance, June 30, 1931	\$	44.14

SCHEDULE "P"

RETURNED CHECK ACCOUNT—GENERAL EXTENSION DIVISION

RECEIPTS AND DISBURSEMENTS

July 1, 1930, to June 30, 1931

Receipts	\$	1,226.05
Disbursements		1,224.30
		-
Balance, June 30, 1931	\$	1.75

SCHEDULE "Q"

FLORIDA AGRICULTURAL EXPERIMENT STATION

RECEIPTS AND DISBURSEMENTS

January 1, 1931, to June 30, 1931

Receipts	\$ 45,000.00
Disbursements	36,403.20
	<hr/>
Balance, June 30, 1931	\$ 8,596.80

NOTE: These are the Hatch, Adams and Purnell Funds received directly from the Federal Government and are included in the report of the Experiment Station.

SCHEDULE "R"

UNIVERSITY INCIDENTALS

RECEIPTS AND DISBURSEMENTS

July 1, 1929, to June 30, 1931

Balance, July 1, 1929	\$ 32,408.54
Receipts during Biennium	366,729.30
	<hr/>
Total	\$399,137.84
Remitted to State Treasurer	399,137.84
	<hr/>
Balance, June 30, 1931 .....	.00

SCHEDULE "S"

EXPERIMENT STATION INCIDENTALS

RECEIPTS AND DISBURSEMENTS

July 1, 1929, to June 30, 1931

Balance, July 1, 1929	\$ 3,728.46
Receipts during Biennium	42,677.07
	<hr/>
Total	\$ 46,405.53
Remitted to State Treasurer	46,405.53
	<hr/>
Balance, June 30, 1931 .....	.00

PART IV

BALANCE SHEET
AS OF JUNE 30, 1931

INCLUDING ALL DEPARTMENTS AND DIVISIONS OF THE UNIVERSITY
WITH SUPPORTING SCHEDULES

RECAPITULATION OF INVENTORY
AS OF JUNE 30, 1931

a—University Proper

b—Agricultural Experiment Station

UNIVERSITY

BALANCE

June 30,

		ASSETS		
CURRENT FUNDS ASSETS:				
General Funds:				
Operating Funds, Appropriated (Exhibit I)				
University Proper	\$ 43,954.36			
Experiment Stations	18,932.10			
				\$ 62,886.46
Inventory of Supplies				
University Proper	89,585.00			
Experiment Stations	48,623.80			
				138,208.80
Total General Funds				\$ 201,095.26
Restricted Funds:				
Cash (Exhibit II)				
On Hand	\$ 645.13			
On Checking Deposit	34,445.82			
On Savings Deposit	22,734.32			
				\$ 57,825.27
Accounts Receivable, Vouchers of J. B. Goodson (in transit)		8,776.60		
Liberty Bond		50.00		
Total Restricted Funds				66,651.87
Total Current Funds Assets				\$ 267,747.13
ENDOWMENT FUNDS ASSETS:				
Investments in Bonds				\$ 325,488.39
Total Endowment Funds Assets				325,488.39
PLANT FUND ASSETS:				
Unexpended:				
Permanent Building Fund Appropriated				\$ 135,421.20
Total Unexpended				\$ 135,421.20
Museum Exhibits				\$ 210,251.20
Total Museum Exhibits				240,251.20
Invested In Plant:				
		EXPERIMENT	UNIVERSITY	
		STATIONS		
Live Stock	\$ 9,665.00	\$	8,128.50	
Books			185,345.48	
Furniture, Equipment and Machinery	263,896.58		582,800.11	
Buildings	150,468.00		2,258,853.40	
Land and Campus Development	97,450.00		353,666.70	
Total Invested in Plant	\$521,479.58	\$3,388,794.19		3,910,273.77
Total Plant Funds Assets				4,285,946.17
Grand Total Assets				\$4,879,181.69

OF FLORIDA

SHEET
1931

LIABILITIES AND FUNDS

CURRENT LIABILITIES AND FUNDS:

General:

Appropriations for Operations	\$ 62,886 46	
Reserve for Supplies Inventory	138,298 80	
	<hr/>	
Total General Funds, . . .		\$ 201,095 26

Restricted:

Deposits (Exhibit III)	23,707 49	
Special Funds (Exhibit IV)	9,564 44	
Auxiliary Enterprises (Exhibit V)	33,379 94	
	<hr/>	
Total Restricted Funds		66,651 87

Total Current Liabilities and Funds \$ 267,747 13

ENDOWMENT FUNDS:

American Legion	40,000 00	
Seminary Interest	131,400 44	
Agricultural College	154,087 98	
	<hr/>	
Total Endowment Funds		325,488 39

PLANT LIABILITIES AND FUNDS:

Unexpended:

Permanent Building Fund Appropriation	\$ 135,421 20	
	<hr/>	
Total Unexpended		\$ 135,421 20
Gifts to Museum	\$ 240,251 20	
	<hr/>	
Total Gifts to Museum		\$ 240,251 20

Invested in Plant:

Investment in Plant	\$3,910,273 77	
	<hr/>	
Total Invested in Plant		\$3,910,273 77

Total Plant Liabilities and Funds 1,285,946 17

Grand Total Liabilities and Funds \$4,879,481 69

EXHIBIT I

UNEXPENDED OPERATING FUNDS APPROPRIATED

June 30, 1931

Experiment Station:

Main Station, Incidental	\$ 12,564.95	
Everglades Station, Incidental	3,455.60	
Smith-Lever, Federal	469.56	
Lever Supplemental	727.97	
Capper-Ketcham	24.45	
Additional Cooperative Work	1,689.57	\$ 18,932.10
		<hr/>

University Proper:

University Incidental	\$ 31,391.06	
General Extension, Incidental	39.38	
Radio Station, Incidental	2,192.25	
Seminary Interest Fund	2,709.19	
Agricultural College Fund	2,633.16	
Department of Architecture	4,989.32	\$ 43,954.36
		<hr/>
		\$ 62,886.46

EXHIBIT II

CASH

On Hand:

J. B. Goodson, Cashier, U. of F.	\$ 505.13	
Book Store, Petty Cash	100.00	
Cafeteria, Petty Cash	40.00	\$ 645.13
		<hr/>

On Checking Deposit:

First National Bank	2,393.96	
Phifer State Bank	14,577.51	
Florida National Bank	8,877.55	
First National Bank—Florida Agricultural Experiment Station	8,596.80	\$ 34,445.82
		<hr/>

Savings Deposits:

First National Bank	12,627.67	
Florida National Bank	10,106.65	\$ 22,734.32
		<hr/>
		\$ 57,825.27

EXHIBIT III

DEPOSITS

Scholarship Accounts	\$ 1,506.87
Student Cash Deposit Accounts	3,991.27
Laboratory Breakage	3,582.09
Room Reservation Fund	6,886.62
Locker Fund	7.50
R. O. T. C. Fund	44.14
Returned Check Account—General Extension.....	1.75
Student Activities	7,687.25

EXHIBIT IV

\$ 23,707.49

SPECIAL FUNDS

Southern Railway Loan Fund	\$ 376.26
Vocational Fund	308.45
National Academy Research	282.93
Florida Agricultural Experiment Station	8,596.80

EXHIBIT V

\$ 9,564.44

AUXILIARY ENTERPRISES

University Cafeteria	\$ 2,228.59
Old Dormitories	8,138.10
New Dormitories	14,040.51
University Book Store	8,781.94
University Sport Shop	190.80

\$ 33,379.94

UNIVERSITY OF FLORIDA

INVENTORY AT JUNE 30, 1931

Furniture

ACCOUNT	PRESENT VALUE
Bookcases	\$ 3,839.20
Beds	5,188.26
Benches	512.61
Chairs	19,291.43
Stools	807.00
Cabinets	29,004.79
Desks	41,727.81
Dressers	1,325.70
Files	14,934.05
Mattresses	2,739.05
Stands	857.60
Safes	3,650.30
Sinks	1,458.35
Shelves and Racks	7,762.17
Tables	18,817.40
Miscellaneous Furniture	12,963.35
	<hr/>
Total Furniture	\$164,879.07

Office Equipment

Adding Machines	\$ 8,972.45
Costumers	111.97
Electric Fans	2,829.45
Heaters	296.40
Smokadors	9.00
Typewriters	9,688.80
Line-a-times	77.40
Water Coolers	1,045.55
Miscellaneous Office Equipment	2,976.80
	<hr/>
Total Office Equipment	\$ 26,007.82

Machinery

ACCOUNT	PRESENT VALUE
Electrical Engineering	\$ 28,653.16
Printing	3,595.21
Agricultural	7,744.66
Commons	9,053.29
Cars	1,612.06
Engines and Motors	15,451.18
General Machinery	19,815.20
Power Plant	6,800.15
Scientific	10,128.60
Refrigeration	9,407.52
Tractors	1,546.85
Miscellaneous Machinery	3,359.85
Total Machinery	\$117,137.67

Apparatus

Civil Engineering	\$ 4,494.55
Dairy	654.50
Educational Apparatus	21,456.12
Gymnasium	4,647.45
Heating	3,186.25
Microscopes	14,450.75
Physics	7,950.95
Photography	2,637.60
Scientific	4,499.05
Surgical	3,262.95
Weighing	5,472.95
Miscellaneous Apparatus	633.15
Total Apparatus	\$ 73,396.27

Miscellaneous

General Miscellaneous	\$ 21,852.08
Musical Instruments and Equipment	1,301.50
Live Stock	8,128.50
Buildings	2,258,853.40
Campus Development	353,666.70
Supplies	89,585.00
Museum Exhibits	240,251.20
Military	178,225.70
Books	185,315.48
Total Miscellaneous	\$3,337,209.56

Grand Total **\$3,713,630.39**

AGRICULTURAL EXPERIMENT STATIONS

OF THE

UNIVERSITY OF FLORIDA

VALUE OF EQUIPMENT, SUPPLIES, LIVESTOCK, ETC., AS OF JUNE 30, 1931

	Equipment	Supplies	Livestock	Buildings	Land
Main Station	\$192,555.00	\$ 37,861.00	\$ 8,110.00	.....	.....
Citrus Station	10,978.00	1,875.00	550.00	\$ 26,860.00	\$ 45,100.00
Everglades Station	38,357.35	3,853.40	255.00	88,075.00	26,000.00
Tobacco Station . . .	9,812.55	560.00	750.00	20,203.00	15,100.00
Subtropical Station	4,387.68	619.40	.....	9,830.00	11,000.00
Watermelon Investi- gations Lab.	4,806.00	855.00	.....	5,500.00	250.00
Total	\$260,896.58	\$ 45,623.80	\$ 9,665.00	\$150,468.00	\$ 97,450.00

NOTE: Values of buildings are estimated by deducting depreciation from original cost. The value of land is based upon approximate per acre value of lands in vicinity and includes such improvements as orchards and other plantings, ditches, fences, etc., but not buildings.

The University Record

of the

University of Florida

Bulletin of the

College of Pharmacy

With Announcements for the Year

1932-33



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The Reports of the President and the Board of Control, the Bulletin of General Information, the annual announcements of the individual colleges of the University, announcements of special courses of instruction, and reports of the University Officers.

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GENERAL STATEMENT

The College of Pharmacy was established in the University in 1923 as the School of Pharmacy. Fostered by the druggists of Florida, to whom the school owed its inception, and aided by liberal support of the Legislature, the school grew to a point where it was recognized as the College of Pharmacy in 1925.

The College of Pharmacy is an integral part of the University, and is governed by the same general policies as are the other colleges of the University.

Standard of Work.—All work offered in the College of Pharmacy meets the highest requirements of pharmaceutical instruction in this country. As a member of the American Association of Colleges of Pharmacy, the College receives due recognition for its courses from all state boards requiring attendance in a school of pharmacy as a prerequisite for examination and registration.

Registration and Reciprocity.—Every applicant applying to the Board of Pharmacy for the State of Florida for examination to become a registered pharmacist in the State of Florida, as a prerequisite to making such application, shall:

a. Furnish the Secretary of the Board with the written statement of at least two reputable citizens, who shall not be related to the applicant by either consanguinity or affinity, certifying that the applicant is a person of good moral character;

b. Furnish the Secretary with a certificate in writing that he is over twenty-one years of age;

c. Present to the Board, through its Secretary, a diploma from an accredited school or college of pharmacy, such accredited school being a school or college of pharmacy holding membership in the American Association of Colleges of Pharmacy, provided that a diploma of any other school or college of pharmacy not a member of said American Association of Colleges of Pharmacy, but whose standard of requirements for the issuance of its diploma are equal or equivalent to the requirements of an accredited school as now established by said American Association of Colleges of Pharmacy, shall be recognized by the Board as a diploma sufficient to entitle the applicant to be examined by the Board. And further provided that the requirements herein provided shall not apply to any person who has been apprenticed for a period

of one year or more under the provisions of the Laws of this State as the same existed prior to the passage of said Chapter 1021 of the 1925 Laws of Florida, and further providing that the provisions of these rules shall not apply to any legally qualified physician, practicing in the State of Florida for three years, prior to June 5, 1915, and further provided that nothing in these rules shall be deemed or held to impair or affect the now existing rules and regulations of this Board or the laws of this State as now in force governing the right of a pharmacist registered in some other state, whose standards of requirement and examination shall be fully equal to the standard of requirements and examination as established and maintained by the Board, from registering with the Board without examination.

Further information concerning registration in Florida may be obtained by writing Mr. J. H. Haughton, Secretary of the State Board of Pharmacy, Palatka, Florida.

Opportunities for Graduates.—The curriculum is designed to provide a broad scientific education, to train retail pharmacists, and, through the wise selection of approved electives, to provide an opportunity for specialization either in Commercial Pharmacy, in Pharmaceutical Chemistry, or in Pharmacognosy and Pharmacology. Specialization in Commercial Pharmacy should qualify a man for a position as manager in a drug store, or as a salesman of drugs and chemicals. The work in Pharmaceutical Chemistry is designed to train men for positions in food and drug laboratories, or as manufacturing pharmacists. The completion of the work of the fourth year in pharmacognosy or pharmacology should qualify one to act in the capacity of pharmacognocist or inspector of crude drugs with a manufacturing concern, or with the Federal Customs Service, or as pharmacologist for manufacturing houses or for hospitals. The foregoing are only a few of the many positions open to men who possess training along any of the above lines. This curriculum also provides opportunity, through careful selection of approved electives, for the completion of minimum requirements for entrance into certain medical colleges.

According to a Government leaflet: "Ninety per cent of the graduates of colleges of pharmacy enter employment in the drug stores and pharmacies where they may become proprietors, branch managers of chain stores, assistants, chemists, research workers, etc. Private ownership of a drug store is profitable when the location is chosen with consideration for population, trade, competition, etc., and business principles applied. Hospitals provide pharmaceutical departments in charge of pharmacists. Manufacturing plants and industrial laboratories employ pharmacists for control and research work involving medicines, drugs, cosmetics, vaccines, and similar products. The Federal Government employs many pharmacists. The inspection service (Treasury Department) of the Industrial Alcohol Bureau and of the Narcotic Bureau employs pharmacists that do not practice their profession, but *must be trained* in pharmacy. The Parker Public Health Act (46 Stat. 150), enacted by Congress and signed by the President on April 9, 1930, authorizes the President to appoint pharmacists as commissioned officers in the Public Health Service in the grade of assistant surgeon corresponding to first lieutenant in the Army."

EQUIPMENT

Grounds and Buildings.—The University occupies a tract of nine hundred and fifty-three acres situated in the western part of Gainesville. Ninety acres of this tract are devoted to campus, drillgrounds, and athletic fields; the remainder is used by the College of Agriculture and Agricultural Experiment Station.

The University is one of the few institutions in the United States that made plans for all future development of the campus, as far as this could be foreseen, before laying the foundation of a single building.

The liberality of the State has permitted the erection of substantial and attractive modern buildings as they were needed. The present buildings on the campus of interest to the College of Pharmacy are:

The Pharmacy-Chemistry Building, which contains all of the class rooms, laboratories, offices and equipment used by the College of Pharmacy and the Department of Chemistry. Kewaunee furniture and alberene wall type hoods are standard equipment in all of the laboratories. The laboratories are piped for hot and cold water, high pressure steam, gas, compressed air, and A. C. and D. C. electricity. They are well equipped for graduate as well as undergraduate work in pharmacy and chemistry.

Science Hall, which now houses the departments of Botany, Biology and Bacteriology, and the Florida State Museum.

Language Hall, in which are located the departments of Languages and Economics, together with the executive offices of the University. The Colleges of Commerce and Journalism and the General Extension Division offices are also located in this building.

The Administration Building, one unit of which has been completed and is now used as an auditorium seating 2200 persons. In this building has been installed the \$50,000 Anderson Memorial organ, the gift of Dr. Andrew Anderson, of St. Augustine.

The University Library Building, which contains the main library of some 60,000 volumes. The Pharmaceutical and Chemical Library of technical books and periodicals is located in the Pharmacy-Chemistry Building.

The University Commons, which building contains the University cafeteria, also the campus Y. M. C. A.

The classrooms, laboratories, and offices of the College of Pharmacy are located in the Pharmacy-Chemistry Building. The laboratories are piped for hot and cold water, high pressure steam, gas, compressed air, and A. C. and D. C. electricity. They are equipped for graduate as well as undergraduate work in pharmacy and chemistry.

For further information concerning equipment, see the *Bulletin of General Information*.

MEDICINAL PLANT GARDEN

A ten-acre tract has been allotted to the College of Pharmacy for use as a medicinal plant garden. This tract has been divided into three sections: (1) about three acres in the natural wooded state and including a small lake for aquatic plants, (2) about three acres from which all underbrush has been cleared and which is used largely for the development of trees and of plants that require shade, (3) about four acres under cultivation and which is used for the propagation of medicinal plants that grow under cultivation.

The garden is used as a teaching adjunct and as a source of supply for fresh material for study, investigation, and classroom illustration. Students use the garden to learn to recognize the medicinal plants in the growing state and to study the methods of propagation, cultivation, harvesting, and curing of plants for the commercial market. Accordingly, as many as possible of the official medicinal plants are grown. Investigations pertaining to the successful growth of exotic plants are being carried on, particularly in reference to tropical and sub-tropical medicinal plants. Whenever possible, rootstock or seeds are furnished to individuals who are interested in the production of medicinal plants.

CHEMISTRY-PHARMACY LIBRARY

The Chemistry-Pharmacy branch of the main library is housed in the Chemistry-Pharmacy building. The library includes text and reference books and several of the American and foreign periodicals on chemical and pharmaceutical subjects. Additional volumes are added each year.

RULES AND REGULATIONS

Students are referred to the handbook "By-Laws of the University of Florida" for complete information concerning the rules and regulations by which they are to be governed. A copy of this handbook is furnished each student upon registering in the University. Every student is held responsible for reading and abiding by these By-Laws.

EXPENSES

Information concerning general expenses may be found in the *Bulletin of General Information*. The following is an estimate of expenses for fees and books for a student in the College of Pharmacy:

Freshman Year:

Military, \$1; Biology, \$15; Chemistry, \$15; Pharmacy, \$10; Books,	
\$27.50	\$68.50

Sophomore Year:

Military, \$1; Chemistry, \$15; Biology, \$10; Pharmacy and Pharmacognosy, \$25; Books, \$27.50	78.50
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Junior Year:

Pharmacy and Pharmacognosy-Pharmacology, \$38; Books, \$27.50	65.50
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Senior Year:

Laboratory work, elective; Books, \$27.50	27.50
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SCHOLARSHIPS AND LOAN FUNDS

Fairchild Scholarship (National).—Mr. Samuel W. Fairchild, of New York City, offers annually a scholarship amounting to \$500. The award is made, by competitive examination, to a graduate in pharmacy who will do post-graduate work in the year immediately following his graduation. Examinations are held in June at the various colleges of pharmacy which are members of the American Association of Colleges of Pharmacy.

Further information may be obtained from the Dean of the College of Pharmacy.

Other Scholarships.—For information concerning other scholarships offered consult the *Bulletin of General Information*.

AWARDS AND MEDALS

For information concerning awards and medals consult the *Bulletin of General Information*.

HONOR SOCIETIES

Rho Chi Honorary Pharmaceutical Fraternity.—Iota Chapter of Rho Chi, national honorary pharmaceutical fraternity, was established at the University in 1928. Chapters of this organization are established only at colleges that are members in good standing of the American Association of Colleges of Pharmacy and which meet the high standards established by the national chapter. Membership is based primarily on scholastic ability as indicated by average percentage of grades, participation in student activities, and gentlemanly qualities. All candidates for membership must have completed at least seventy-five hours of scholastic work and be recommended by the Dean of the College of Pharmacy.

Gamma Sigma Epsilon Honorary Chemical Fraternity. Gamma Sigma Epsilon is a national honorary chemical fraternity. Its members are elected from those students whose grades in chemistry for the two years prior to election are up to the standard set by the local chapter. Graduate students majoring in chemistry are also eligible for membership.

Phi Kappa Phi.—A chapter of the Honor Society of Phi Kappa Phi was established at the University during the spring of 1912. To be eligible for membership a student must have been in attendance at the University for at least one year, or three summer sessions, have been guilty of no serious breaches of discipline, have had at least three years of collegiate training, be within one semester of finishing a course leading to a degree, and stand among the first tenth of the senior class of the University. Candidates for election to Phi Kappa Phi must have attained an honor point average of two on all scholastic work, whenever done, for which credit toward a degree is received.

STUDENT ORGANIZATIONS

Mortar and Pestle Society.—The Mortar and Pestle Society of the University of Florida was organized by the students of the College of Pharmacy in 1923. Lectures and debates on interesting phases of scientific and commercial pharmacy are held each month.

Student Branch, American Pharmaceutical Association.—The Florida Student Branch of the American Pharmaceutical Association was organized in December, 1931, through the initiative of the students of the College of Pharmacy. Members of this organization are also associate members of the American Pharmaceutical Association and receive the *Journal* and *Yearbook* without additional dues. Monthly meetings, at which scientific, professional, and historic phases of pharmacy are discussed, are held regularly throughout the academic year.

Leigh Chemical Society.—The Leigh Chemical Society was organized by and for the students of the Department of Chemistry. The purpose of the society is to stimulate the interest of the beginning student of chemistry by giving him a correct idea of the broadness of the field and its far-reaching importance in the arts and industry. All chemistry students are urged to affiliate with the society and attend its programs, which are held on the second Thursday evening of each month.

For information concerning other student organizations consult the *Bulletin of General Information*.

ADMISSION

For admission to the College of Pharmacy, the candidate must present a certificate of graduation from an accredited high school or preparatory school. The candidate must offer a total of fifteen units, *including* the following:

- a. Three units in English, one in algebra, one in plane geometry, one in history, and one in science;
- b. Two units of a foreign language: However, this requirement may be waived in case the candidate presents a total of four units in history and science.

For further information concerning admission, see the *Bulletin of General Information*.

DEGREES

The College has been offering a three-year curriculum leading to the Certificate of Graduate in Pharmacy (Ph.G.). The last Freshman Class for this course was registered in September, 1931. The members of this Class have the privilege of completing the three-year course and receiving their certificates in June, 1934. They likewise have the privilege of completing the four-year curriculum as it existed at the time of their entrance and of receiving the Degree of Bachelor of Science in Pharmacy (B.S. in Pharm.) not later than June, 1935. This four-year course, which is being discontinued, is designated as the old curriculum, and is found on page 101.

Freshmen entering in 1932 can register only for the four-year course designated as the new four-year curriculum leading to the Degree of Bachelor of Science in Pharmacy and found on page 99. For the convenience of the student the date of discontinuing the different years of the old curriculum is designated after each year. Likewise in the new curriculum the date on and after which the freshman, sophomore, junior, and senior courses are offered will be found after each course respectively.

The Degree of Master of Science.—Courses are offered leading to the degree of Master of Science in Pharmacy. Candidates for that degree must possess the Bachelor of Science Degree in Pharmacy from an institution of recognized standing.

The student must spend at least one entire academic year in residence at the University as a graduate student, devoting his full time to the pursuit of his studies.

For further requirements for the Master's Degree, see the *Bulletin of the Graduate School*.

The Degree of Doctor of Philosophy. Courses are offered leading to the degree of Doctor of Philosophy with specialization in Chemistry, Pharmacy, Pharmacognosy and Pharmacology. For further information consult the special Bulletin of the Graduate School.

THE NEW FOUR-YEAR CURRICULUM

Leading to the Degree of Bachelor of Science in Pharmacy

Freshman (Offered September, 1932, and thereafter)

Pharmacy 103	1	Pharmacy 101	1
English 101	3	English 102	3
Botany 101	4	Botany 102	4
Chemistry 101	5	Chemistry 104	5
Military Science 103	2	Military Science 101	2
Physical Education 101	1	Physical Education 102	1
	—		—
	16		16

Sophomore (Offered September, 1933, and thereafter)

Chemistry 0262	5	Biology 0101	5
Chemistry 303	2	Pharmacognosy 212	2
Pharmacognosy 221	3	Pharmacognosy 222	3
Pharmacy 211	5	Pharmacy 222	5
Military Science 203	2	Military Science 204	2
	—		—
	17		17

Junior (Offered September, 1934, and thereafter)

Pharmacology 351	3	Pharmacology 362	4
Bacteriology 301	4	Pharmacognosy 312	3
Pharmacy 353	5	Pharmacy 354	5
Physics 111-115	5	Physics 112-116	5
	—		—
	17		17

Senior (Offered September, 1935, and thereafter)

Pharmacology 451	3	Pharmacy 362	3
French or German	3	French or German	3
Pharmacy 361	3	Pharmacy 372	4
Pharmacy 381	2	Pharmacy 402	2
Approved Electives	6	Approved Electives	5
	—		—
	17		17

THE OLD THREE-YEAR CURRICULUM

Leading to the Certificate of Graduate in Pharmacy

First Year (Discontinued June, 1932)

First Semester		Second Semester	
Names of Courses	Credits	Names of Courses	Credits
English 101	3	English 102	3
Botany 101	4	Botany 102	4
Chemistry 101	5	Chemistry 104	5
Pharmacy 101	3	Pharmacy 102	3
Military Science 103	2	Military Science 104	2
Physical Education 101	1	Physical Education 102	1
	18		18

Second Year (Discontinued June, 1933)

Chemistry 361	5	Chemistry 362	5
Chemistry 303	2	Biology 0105	2
Pharmacognosy 221	3	Pharmacognosy 222	3
Pharmacy 211	5	Pharmacy 222	5
Military Science 203	2	Military Science 204	2
	17		17

Third Year (Discontinued June, 1934)

Pharmacology 351	3	Pharmacy 372	4
Pharmacy 351	5	Pharmacognosy 342	3
Pharmacy 331	3	Pharmacology 362	4
Pharmacy 361	3	Pharmacy 332	2
Pharmacy 381	2	Pharmacy 362	3
	16		16

THE OLD FOUR-YEAR CURRICULUM

Leading to the Degree of Bachelor of Science in Pharmacy

The first three years of this four-year curriculum, which is being discontinued, are identical with the three-year curriculum as outlined above. In the senior year a major may be selected in Commercial Pharmacy, Pharmaceutical Chemistry, Pharmacognosy, or Pharmacology.

Wherever the term "approved elective" occurs in the curriculum it shall be understood that the electives are to be recommended by the Head of the Department concerned and approved by the Dean.

Senior Year (Discontinued June, 1935)

Commercial Pharmacy Major

First Semester		Second Semester	
Names of Courses	Credits	Names of Courses	Credits
Pharmacy 471	2		
Business Administration 331	3	Business Administration 332	3
Business Administration 211	3	Business Administration 212	3
French, German or Spanish	3	French, German or Spanish	3
Business Administration 401, or Approved Elective	3	Business Administration 402, or Approved Elective	3
Approved Elective	2	Approved Elective	4
	<hr/> 16		<hr/> 16

Pharmaceutical Chemistry Major

Chemistry 0232	4	Pharmacy 432	3
Pharmacy 451	3	Chemistry 406	3
French or German	3	French or German	3
Approved Electives	6	Approved Electives	7
	<hr/> 16		<hr/> 16

Pharmacognosy Major

Pharmacognosy 425	4	Pharmacognosy 426	4
*Pharmacognosy 435	1	*Pharmacognosy 436	4
Pharmacognosy 491, or Approved Elective	2	Pharmacognosy 492, or Approved Elective	2
French or German	3	French or German	3
Approved Electives outside Department	3	Approved Electives outside Department	3
	<hr/> 16		<hr/> 16

Pharmacology Major

Pharmacology 451	4	Pharmacology 452	4
Pharmacology 455	4	Pharmacology 456	4
Pharmacology 491, or Approved Elective	2	Pharmacology 492, or Approved Elective	2
French or German	3	French or German	3
Approved Electives outside Department	3	Approved Electives outside Department	3
	<hr/> 16		<hr/> 16

*Pharmacognosy 231-232 may be substituted if student has not already completed this course.

DEPARTMENTS OF INSTRUCTION

Subjects with odd numbers are given in the first semester and subjects with even numbers are given in the second semester unless the number begins with 0, in which case the reverse is true.

The number of hours given is the number of hours which the class meets per week.

The number of credits is the number of semester credit hours earned by each student who receives a passing grade (A, B, C, or D) when the subject is completed.

As a rule subjects numbered 200 or above are not open to freshmen; subjects numbered 300 or above are not open to sophomores; subjects numbered 400 or above are not open to juniors; subjects numbered 500 or above are for graduate students.

The abbreviations used are wherever possible the first and last letter of the first word of the department name. Occasionally, a third central letter is demanded to distinguish between departments where first and last letters are identical.

Three hours of laboratory work or the equivalent are considered of equal value to one hour of recitation.

BIOLOGY

Bly. 101-0101.—Principles of Animal Biology. 2 hours and 4 hours laboratory and 1 hour recitation. 5 credits. ROGERS AND STAFF.

An introduction to the subject matter and principles of zoology.

Laboratory fee: \$5.

A prerequisite for all other courses in this department except **Bly. 0105**. Required of first year pre-medical, physical education and agricultural students, and of all B.S. students.

Bly. 0105.—Elementary Anatomy and Physiology. 2 hours. 2 credits. SHERMAN.

The elements of vertebrate anatomy with an introduction to the physiological systems of man.

Fee for demonstration material: \$2.

Not offered after 1932.

BOTANY AND BACTERIOLOGY

Bty. 101.—General Botany. 2 hours and 4 hours laboratory. 4 credits.

No credit toward a degree will be allowed until credit in Bty. 102 is earned. CODY, CARROLL.

The plant cell; structure and life histories of spore plants.

Laboratory fee: \$5.

Bty. 102.—General Botany. 2 hours and 4 hours laboratory. 4 credits. CODY, CARROLL.

Structure, life histories and principles of classification of seed plants.

Laboratory fee: \$5.

Bcy. 301.—General Bacteriology. 2 hours and 4 hours laboratory. 4 credits. CARROLL.

The morphology, physiology and cultivation of bacteria and related microorganisms.

Prerequisite: College Botany or Biology. A knowledge of chemistry is desirable.

Laboratory fee: \$5.

BUSINESS ADMINISTRATION

Bs. 201E-202E.—Principles of Economics. 3 hours. 6 credits. No credit toward a degree will be allowed until the entire 6 credits are earned. ANDERSON, BIGHAM, DOLBEARE, ELDRIDGE, HICKS.

An analysis of production, distribution, and consumption. Attention is devoted to the principles governing value and market price with a brief introduction to money, banking and credit, industrial combinations, transportation and communication, labor problems, and economic reform.

Bs. 211-212 or 0211-0212.—Principles of Accounting. 2 hours and 2 laboratory hours. 6 credits. No credit toward a degree will be allowed until Bs. 212 is completed. GRAY, WARD.

Lectures, problems, and laboratory practice. An introductory study of the underlying principles of double entry records; basic types of records and reports; accounting procedure and technique; the outstanding features of partnerships and corporations; the form and content of the balance sheet and the statement of profit and loss.

Bs. 331.—Principles of Salesmanship. 3 hours. 3 credits. WILSON.

Actual practice in sales methods, including preparation for and obtaining the interview; presenting the sales talk; meeting and overcoming objections; detailed study of the stages of the sale; attention, interest, desire and action; sales tactics; sales personality. Principles covered apply to all kinds of selling specialties, styles, etc.

Bs. 332.—Retail Store Management. 3 hours. 3 credits. WILSON.

Retail store problems; types of stores; executive control; purchasing; accounts; location; service; organization; management of employees and price policies.

Bs. 401.—Business Law. 3 hours. 3 credits. HURST.

Contracts and agency; the formation, operation, interpretation, and discharge of binding agreements; creation of the relation of agency; types of agents; rights and obligations of the agent, principal, and third party; termination of the relationship of agency.

Bs. 402.—Advanced Business Law. 3 hours. 3 credits. HURST.

Conveyances and mortgages of real property; sales and mortgages of personal property; the law of negotiable instruments; partnership.

CHEMISTRY

Cy. 101.—General Chemistry. 4 hours and 3 hours laboratory. 5 credits. No credit toward a degree will be allowed until credit in Cy. 102 or 104 is earned. HEATH, BEISLER, OTTE, ELLIS, THRONSON.

The fundamental laws and theories of chemistry, and the preparation and properties of the common non metallic elements and their compounds. Students may begin this course either the first or second semester.

Laboratory fee: \$5.

Cy. 102.—General Chemistry, continued. 4 hours and 3 hours laboratory. 5 credits. HEATH, BEISLER, OTTE, ELLIS, THRONSON.

Devoted largely to a study of the metallic elements and their compounds.

Laboratory fee: \$5.

Cy. 104.—General Chemistry, continued, and Qualitative Analysis. 4 hours and 3 hours laboratory. 5 credits. JACKSON.

A study of the metallic elements and their compounds, and the qualitative analysis of the metals and acid radicals.

Laboratory fee: \$5.

Required of first-year pharmacy students.

Cy. 105.—General Chemistry. 3 hours and 3 hours laboratory. 4 credits. No credit toward a degree will be allowed until credit in Cy. 106 is earned. BLACK.

The fundamental laws and theories of chemistry and the preparation and properties of the common non-metallic elements and their compounds.

Laboratory fee: \$5.

Required of first-year agricultural students.

Cy. 106.—General Chemistry, continued, and Qualitative Analysis. 3 hours and 6 hours laboratory or its equivalent. 5 credits. BLACK, JACKSON.

A study of the metallic elements and their compounds and the essentials of qualitative analysis.

Laboratory fee: \$5.

Required of first-year agricultural students.

Cy. 107-108.—Elementary Descriptive Chemistry. 3 hours and 3 hours laboratory. 8 credits. No credit toward a degree will be allowed until the entire 8 credits are earned. POLLARD.

A study of the elements and their compounds with a minimum of the underlying principles of chemistry. The laboratory work will be of general nature and will include no systematic qualitative analysis. This course does not fulfill prerequisite requirements for a second course in chemistry.

Laboratory fee: \$5 per semester.

Cy. 0203.—Qualitative Analysis. 2 hours and 6 hours laboratory. 4 credits. JACKSON.

A systematic study of the metals and their chemical reactions and theoretical considerations of qualitative analysis. Practice in the separation and identification of the common metals and acid radicals.

Prerequisite: Cy. 0232.

Laboratory fee: \$5.

Cy. 0215.—Water and Sewage. 2 hours and 3 hours laboratory or its equivalent. 3 credits. BLACK.

A theoretical and practical study of the examination and treatment of water and sewage.

Prerequisite: General Chemistry.

Laboratory fee: \$5.

Required of fourth-year Civil Engineering students.

Cy. 0232.—Elementary Physical Chemistry. 3 hours and 3 hours laboratory. 4 credits. JACKSON.

A study of the gaseous, liquid and solid states of matter, the properties of solutions, and colloids.

Prerequisite: General Chemistry.

Laboratory fee: \$5.

Cy. 0262.—Organic Chemistry. 3 hours and 6 hours laboratory. 5 credits. POLLARD and THRONSON.

A brief course embracing the more important aliphatic and aromatic compounds, designed chiefly for students in applied biological fields. Suitable for those premedical students who desire only 5 hours of organic chemistry.

Prerequisite: General Chemistry.

Laboratory fee: \$5.

Cy. 303.—Quantitative Analysis. 6 hours laboratory or its equivalent. 2 credits. BLACK.

A brief survey of the fundamental methods of gravimetric and volumetric analysis. The laboratory work is selected especially for students of pharmacy.

Prerequisite: Cy. 104.

Laboratory fee: \$5.

Required of second-year pharmacy students.

Cy. 305 or 0305.—Quantitative Analysis. 2 hours and 9 hours laboratory. 5 credits. BLACK.

The fundamental principles of gravimetric and volumetric analysis. The laboratory work may be varied somewhat to fit the needs of individual students.

Prerequisite: Cy. 0203.

Laboratory fee: \$5.

Cy. 335.—Unit Processes of Chemical Engineering. 3 hours or its equivalent. 3 credits. BEISLER.

A critical study of the fundamental chemical engineering processes, such as filtration, evaporation and drying.

Prerequisites: Cy. 0232, College Physics and Calculus.

Required of fourth-year chemical engineering students.

Cy. 343.—Industrial Chemistry, Inorganic. 3 hours. 3 credits. BEISLER.

Consideration of chemical principles involved in manufacturing and refining inorganic products of commercial importance.

Prerequisites: Cy. 0232 or General Chemistry and College Physics.

Required of fourth-year Chemical Engineering students.

Cy. 351.—Metallurgy. 2 hours and 3 hours laboratory. 3 credits. HEATH, YEATON.

A study of the preparation, properties, structure and uses of the more important metals and alloys.

Prerequisites: General Chemistry and College Physics.

Required of fourth-year chemical engineering students.

Laboratory fee: \$5.

Cy. 361-362.—Organic Chemistry. 3 hours and 6 hours laboratory or its equivalent. 10 credits. No credit toward a degree will be allowed until the entire 10 credits are earned. LEIGH.

A study of the preparation and properties of various aliphatic and aromatic compounds.

Prerequisites: Cy. 104, Cy. 0203, or Cy 0232.

Laboratory fee: \$5 per semester.

Cy. 403.—Water Analysis. 9 hours laboratory or its equivalent. 3 credits. BLACK.

The analysis of waters to determine their potability and fitness for steam raising and other purposes.

Prerequisite: Cy. 305.

Laboratory fee: \$5.

Cy. 405.—Gas Analysis. 1 hour and 6 hours laboratory. 3 credits.

The analysis of fuel and illuminating gas and products of combustion. Some attention given to the theory and use of automatic gas recorders.

Prerequisite: Cy. 305.

Laboratory fee: \$5.

Not offered in 1932-1933.

Cy. 406.—Physiological Chemistry. 2 hours and 3 hours laboratory. 3 credits. POLLARD.

The chemistry and physiology of carbohydrates, fats, proteins, and body tissues. The examination of body fluids such as milk, blood, urine, etc. An elementary course.

Prerequisite: Organic Chemistry.

Laboratory fee: \$5.

Required of fourth-year pharmaceutical chemistry students.

Cy. 410.—Historical Chemistry. 3 hours. 3 credits.

The historical development of the more important chemical theories and their influence on the development of the science.

Prerequisites: Cy. 361, Cy. 362 and Cy. 305.

Not offered in 1932-1933.

Cy. 415.—Fuels Laboratory. 6 hours laboratory or its equivalent. 2 credits. BEISLER.

Analysis and calorimetry of gaseous, liquid and solid fuels.

Prerequisite: Cy. 305.

Laboratory fee: \$5.

Required of fourth-year chemical engineering students.

Cy. 0421.—Advanced Physical Chemistry. 3 hours and 3 hours laboratory. 4 credits. JACKSON.

A study of electrical theory of matter, radioactivity, atomic structure, relation between physical properties and chemical constitution, equilibrium, phase rule, thermodynamics, thermo-chemistry, chemical kinetics, and photo-chemistry.

Prerequisites: Cy. 0203, Cy. 0232, Cy. 361 and Cy. 362.

Laboratory fee: \$5.

Cy. 432.—Agricultural Analysis. 2 hours and 9 hours laboratory. 5 credits. BLACK.

The quantitative analysis of agricultural products. The laboratory work may be varied somewhat to fit the needs of individual students.

Prerequisites: Cy. 305, Cy. 361, and Cy. 362.

Laboratory fee: \$5.

Cy. 444.—Chemical Engineering Laboratory. 9 hours laboratory or its equivalent. 3 credits. BEISLER.

A practical study of the processes used for the manufacture and purification of chemicals.

Prerequisites: Cy. 335, Cy. 343.

Laboratory fee: \$5.

Required of fourth-year chemical engineering students.

Cy. 446.—Industrial Chemistry, Organic. 3 hours. 3 credits. BEISLER.

Consideration of chemical principles involved in manufacturing and refining organic products of commercial importance. Visits are made to accessible factories and chemical plants.

Prerequisites: Cy. 361-362; Cy. 343.

Required of fourth-year chemical engineering students.

Cy. 462.—Photographic Chemistry. 3 hours or its equivalent. 3 credits. HEATH.

Deals with the chemical action of light, the preparation, properties, and uses of photographic materials. The practical applications of photography will be shown, as well as the theory of the subject.

Prerequisites: Cy. 262, or Cy. 361 and 362; Cy. 0232 or College Physics.

Given alternate years. Not offered in 1932-1933.

Cy. 481.—Chemical Literature. 1 hour or its equivalent. POLLARD.

A general study of the present sources of published chemical information.

GRADUATE COURSES

Cy. 501.—Organic Preparation.**Cy. 504.—Inorganic Preparations.****Cy. 505.—Organic Nitrogen Compounds.****Cy. 506.—Special Chapters in Organic Chemistry.****Cy. 508.—Synthesis and Structure of Organic Compounds.**

- Cy. 509.—Electrochemistry.
 Cy. 510.—The Phase Rule and Its Applications.
 Cy. 513.—Colloid Chemistry.
 Cy. 516.—Chemistry of the Rare Elements.
 Cy. 519.—Atomic Structure.
 Cy. 525-526.—Chemistry of the Terpenes.
 Cy. 531.—Advanced Qualitative Analysis.
 Cy. 533.—Advanced Quantitative Analysis.
 Cy. 537.—Qualitative Organic Chemistry.
 Cy. 538.—Quantitative Organic Chemistry.
 Cy. 542.—Catalysis.
 Cy. 551-552.—Chemical Research.

See the *Bulletin of the Graduate School* for a description of graduate courses.

ENGLISH

- Eh. 101-102.—Rhetoric and Composition.** 3 hours. 6 credits. No credit toward a degree will be allowed until the entire 6 credits are earned. ROBERTSON AND STAFF.

To train students in methods of clear and forceful expression. Instruction is carried on simultaneously in formal rhetoric, and in theme writing.

Required of all freshmen.

MILITARY SCIENCE

- My. 103-104.—Freshman Field Artillery, Compulsory.** 2 hours theory and 3 hours practical. 4 credits. CAPTAINS HEPNER AND DONNOVIN.

The work is divided as follows: (a) Theoretical: organization hygiene and first aid—elementary gunnery—explosives, ammunition and fuzes—military courtesy and discipline—drill and command. (b) Practical: dismounted drill ceremonies—pistol instruction—individual equipment—materiel—75 mm. gun drill gunner's examination. Text: *Wilson Field Artillery Manual*, Vol. 1.

- My. 203-204.—Sophomore Field Artillery, Compulsory.** 2 hours theory and 3 hours practical. 4 credits. CAPTAIN BARCO.

The work is divided as follows: (a) Theoretical: care of animals map reading and sketching—fire control instruments communications. (b) Practical: dismounted drill—ceremonies equation—driving mounted drill reconnaissance, selection and occupation of position. Text: *Wilson Field Artillery Manual*, Vol. I.

Prerequisite: **My. 103 and 104.**

Students may take four years Military Science, if desired. See the *Bulletin of the Division of Military Science and Tactics*.

MODERN LANGUAGES

At least one year of modern language is required for the degree of B.S. in Pharmacy.

FRENCH

- Fh. 21-22.—Elementary French.** 3 hours. 6 credits. No credit toward a degree will be allowed until the 6 credits are earned. HUSTON, MCDOWELL.

Elements of pronunciation and grammar; reading of simple prose.

For beginners.

Fh. 101-102.—Third and Fourth Semester French. 3 hours. 6 credits.
No credit toward a degree will be allowed until the 6 credits are earned. HUSTON.

Second-year college French: Reading of modern texts; grammar review; translation of simple English into French.

Prerequisite: **Fh. 21 and 22** (or the equivalent, such as two years of high school French).

GERMAN

Gn. 21-22.—Elementary German. 3 hours. 6 credits. No credit toward a degree will be allowed until the entire 6 credits are earned. CROW AND HAUPTMANN.

Gn. 101-102.—Intermediate. 3 hours. 6 credits. CROW.

Second-year College German.

Prerequisite: **Gn. 21 and 22** or their equivalent.

SPANISH

Sh. 21-22.—Elementary. 3 hours. 6 credits. No credit toward a degree will be allowed until the entire 6 credits are earned. DE-GAETANI.

Sh. 101-102.—Intermediate. 3 hours. 6 credits. DEGAETANI.

Second-year college Spanish.

PHARMACOLOGY AND PHARMACOLOGY

The Department of Pharmacognosy and Pharmacology offers courses designed to provide a practical foundation for professional pharmacy and a fundamental training for scientific work in related fields and in addition, such electives as are deemed adequate to enable students to acquire the technical information and skill necessary for scientific work in Pharmacognosy and Pharmacology. Courses in Pharmacognosy are supplemented with field work in the Medicinal Plant Garden conducted by the Department. Laboratories are well equipped for both undergraduate and graduate work.

Pgy. 221-222.—Practical Pharmacognosy. 12 hours laboratory. 6 credits. CHRISTENSEN.

Sources of crude drugs and a systematic classification of the vegetable and animal drugs of the United States Pharmacopoeia and National Formulary. Laboratory work on the methods of identifying the crude drugs, illustrated with authentic specimens.

Laboratory fee: \$5 per semester.

Required of second-year pharmacy students.

Pgy. 231-232.—Cultivation of Medicinal Plants. Lectures and field periods to be arranged according to credits, which may vary from 4 to 10 credits. CHRISTENSEN, HINER.

Medicinal plants that are being cultivated, methods of cultivation, harvesting, curing, and preparation for the market. Field work with plants grown in the Medicinal Plant Garden.

Pgy. 242.—Drug Plant Histology. 4 hours laboratory. 2 credits. CHRISTENSEN, HINER.

Internal structure of medicinal plants. Cellular elements and types of tissues used as diagnostic characters in identification and detection of adulterations.

Laboratory fee: \$3.

Required of second-year pharmacy students.

Pgy. 342.—Microscopy of Drugs. 1 hour and 4 hours of laboratory. 3 credits. CHRISTENSEN, HINER.

Microscopic structure and characteristics of types of drugs, methods of identifying powdered drugs and food products, and of detecting adulterations.

Prerequisite: Pgy. 222 and 242.

Laboratory fee: \$3.

Required of third-year pharmacy students.

Ply. 351.—Pharmacology. 3 hours. 3 credits. CHRISTENSEN.

The manner of action, dosage, therapeutic uses and toxicology of official and non-official drugs and poisons. Illustrated with carefully planned demonstrations.

Prerequisite: Pgy. 222.

Required of third-year pharmacy students.

Ply. 362.—Pharmacological Standardization. 2 hours and 4 hours laboratory. 4 credits. CHRISTENSEN, HINER.

Biological assaying, employing the official methods of the United States Pharmacopoeia.

Prerequisite: Ply. 351.

Laboratory fee: \$5.

Required of third-year pharmacy students.

Pgy. 425-426.—Classification of Drug Plants. 2 to 3 hours and 8 to 14 hours laboratory and field work. 6 to 10 credits. CHRISTENSEN.

Systems of classification, family characteristics and methods of identification. Preparation and filing of herbarium specimens and use of herbarium.

Prerequisites: Pgy. 221 and Pgy. 222.

Laboratory fee: To be arranged.

Pgy. 435-436.—Comminution of Crude Drugs. 2 to 3 hours and 8 to 14 hours laboratory. 6 to 10 credits. CHRISTENSEN.

Types of milling machinery and milling processes. Legal standards for powdered drugs. Deterioration of drugs, causes and prevention. Preservation from insects. Lectures and laboratory, collateral reading, oral and written reports.

Prerequisites: Pgy. 221 and Pgy. 222.

Laboratory fee: To be arranged.

Ply. 451-452.—The Principles of Biologicals. 2 to 3 hours and 4 to 14 hours laboratory. 4 to 10 credits. CHRISTENSEN.

Advanced study of the pharmacology of drugs and pharmacological standardization with special reference to serums, vaccines, antitoxins, enzymes, pollen extracts, and gland products.

Prerequisite: Ply. 362.

Laboratory fee: To be arranged.

First semester (3 hrs.), required of fourth-year pharmacy students.

Ply. 455-456.—New Remedies. 4 to 10 hours. 4 to 10 credits. CHRISTENSEN.

A brief history of the organization, policies and accomplishments of the Council on Pharmacy and Chemistry of the American Medical Association. The Pharmacology of new remedies accepted and placed on the market. Lectures, discussions, collateral reading, oral and written reports. Open to seniors and graduates.

Prerequisite: Ply. 362.

Pgy., or

Ply. 491-492.—Pharmacognosy Thesis or Pharmacology Thesis. 4 credits. CHRISTENSEN.

Research problems in Pharmacognosy or Pharmacology for senior thesis or equivalent electives may be arranged upon consultation.

GRADUATE COURSES

- Pgy. 501.—Advanced Histology and Microscopy of Vegetable Drugs.
 Pgy. 521-522.—Special Problems in Pharmacognosy.
 Pgy. 525-526.—Drug Plant Analysis.
 Pgy. 533-534.—Seminar in Pharmacognosy.
 Pgy. 551-552.—Pharmacognosy Research.
 Ply. 512.—Advanced Pharmacology.
 Ply. 551-552.—Special Problems in Pharmacology.
 Ply. 555-556.—Pharmacological Testing.
 Ply. 571-572.—Pharmacology Research.
 Pgy., or
 Ply. 591-592.—Pharmacognosy Thesis or Pharmacology Thesis.

See the *Bulletin of the Graduate School* for description of the courses above.

PHARMACY

The Department of Pharmacy offers courses designed to give the proper emphasis to Pharmacy in its professional, scientific, commercial, and legal aspects. Particular attention is given to the scientific side of Pharmacy, and the extensive laboratory courses afford opportunity for acquiring the technical skill needed in identifying, preparing, testing and dispensing drugs and medicines. The application of the principles of chemistry, physics, mathematics, bacteriology, etc., to the work of the pharmacist is emphasized.

Phy. 101.—Pharmaceutical Arithmetic. 2 hours and 2 hours laboratory. 3 credits.

The application of arithmetic to pharmacy; a thorough study of the systems of weight and measure in use in the United States, and their relation to each other. Laboratory work acquaints the student with the weights and measures studied, and experiments are carried out on specific gravity, percentage solutions, thermometry, etc.

Not offered after the first semester of 1931-1932.

Phy. 102.—Theoretical Pharmacy. 2 hours and 2 hours laboratory. 3 credits.

The history and nomenclature of the United States Pharmacopoeia and the National Formulary, and of the apparatus and processes of operative pharmacy. Students conduct in the laboratory operations illustrating the principles considered in lecture, and perform the simpler pharmaceutical operations.

Not offered after the second semester of 1931-1932.

Phy. 103-104.—Introductory Lectures. 1 hour. 2 credits. FOOTE.

A series of general lectures by different faculty members, designed to help orient the freshmen. The history, development, and present status of the various branches of pharmacy.

Required of first-year pharmacy students.

Phy. 211.—Inorganic Pharmacy. 3 hours and 4 hours laboratory. 5 credits. FOOTE.

Consideration of the inorganic compounds used in medicines; their Latin titles, origin and physical, chemical and physiological properties; the preparation of these inorganic substances, and their use in compounding remedies.

Prerequisites: Cy. 104 and Phy. 102.

Laboratory fee: \$5.

Required of second-year pharmacy students.

Phy. 222.—Galenic Pharmacy. 3 hours and 4 hours laboratory. 5 credits. FOOTE.

Galenic preparations, such as syrups, spirits, tinctures, extracts, emulsions, etc. The preparation of these materials extemporaneously on a small scale, and also their manufacture in larger amounts by use of pharmaceutical machinery.

Prerequisites: **Cy. 361** and **Phy. 102**.

Laboratory fee: \$5.

Required of second-year pharmacy students.

Phy. 331.—Qualitative Drug Analysis. 1 hour and 4 hours laboratory. 3 credits. FOOTE.

The detection of the common synthetics, glucosides, and alkaloids in pharmaceutical preparations, particularly those of high toxicity. The tests used are those commonly accepted as evidence in medico-legal cases. Laboratory work on powders, solutions, emulsions, etc.

Prerequisite: **Cy. 302**. Corequisite: **Phy. 351**.

Laboratory fee: \$5.

Required of third-year pharmacy students.

Not offered after the first semester of 1933-34.

Phy. 332.—Quantitative Drug Analysis. 1 hour and 2 hours laboratory. 2 credits. FOOTE.

The quantitative analysis of medicinal preparations by physical means or by chemical methods. Certain analyses are made by the use of the polariscope and the refractometer, while alkaloids are determined both gravimetrically and volumetrically.

Prerequisites: **Cy. 362** and **303**, **Phy. 351**.

Laboratory fee: \$5.

Required of third-year pharmacy students.

Not offered after the second semester of 1933-34.

Phy. 351.—Organic Pharmacy. 3 hours and 4 hours laboratory. 5 credits. FOOTE.

The preparation, properties, and uses of natural and synthetic organic drugs.

Prerequisites: **Cy. 362** and **Phy. 222**.

Laboratory fee: \$5.

Required of third-year pharmacy students.

Not offered after the first semester of 1933-34.

Phy. 353-354.—Organic and Analytical Pharmacy. 3 hours and 6 hours laboratory. 10 credits. FOOTE.

The chemistry and pharmacy of natural and synthetic organic drugs, including qualitative and quantitative drug analysis.

Prerequisites: **Cy. 262** and **303**, **Phy. 222**, **Pgy. 222**.

Laboratory fee: \$5 per semester.

Not offered until 1934-35.

Phy. 361.—Prescriptions and Dispensing. 2 hours and 2 hours laboratory. 3 credits. No credit toward a degree will be allowed until credit in **Phy. 362** is earned. HUSA.

Training for practical and efficient work at the prescription counter; each student is given extensive practice in filling prescriptions. Incompatibilities, with emphasis on the methods for overcoming apparent incompatibilities. Prescription reading, translation of prescription Latin, accepted methods of checking and filling prescriptions, and prescription pricing.

Prerequisites: **Phy. 211** and **Phy. 222**.

Laboratory fee: \$5.

Required of third-year pharmacy students.

Phy. 362.—Prescriptions and Dispensing, continued. 1 hour and 4 hours laboratory. 3 credits. HUSA.

Prerequisites: **Phy. 211, Phy. 222** and **Phy. 361**.

Laboratory fee: \$5.

Required of third-year pharmacy students.

Phy. 372.—Commercial Pharmacy. 4 hours. 4 credits. HUSA.

The management of the retail pharmacy; business management, including merchandise information, retail buying, advertising, salesmanship, and accounting.

Prerequisites: **Phy. 211** and **Phy. 222**.

Required of third-year pharmacy students.

Phy. 381.—Pharmaceutical Jurisprudence. 2 hours. 2 credits. HUSA.

National, state and local laws and regulations governing the practice of pharmacy, and the pharmacist's liability, both criminal and civil, for his own violation of laws and for violation on the part of his agents.

Prerequisites: **Phy. 211** and **Phy. 222**.

Required of third-year pharmacy students.

Phy. 402.—Pharmaceutical Arithmetic. 2 hours. 2 credits. HUSA.

Calculations used in pharmaceutical work with emphasis on practical problems.

Prerequisite or corequisite: **Phy. 354**.

Phy. 432.—Advanced Drug Analysis. 6 hours laboratory. 3 credits. HUSA.

The more difficult analytical methods of the United States Pharmacopoeia, supplemented by other methods recommended by the Bureau of Chemistry.

Prerequisites: **Phy. 331** and **Phy. 332**.

Laboratory fee: \$6.

Required of fourth-year pharmacy students majoring in pharmaceutical chemistry.

Phy. 451.—Synthetic Pharmaceuticals. 2 hours and 2 hours laboratory. 3 credits. FOOTE.

The manufacture and use of the newer synthetic remedies. A comparative study of the different manufacturing methods for each product. The laboratory work consists of the preparation of these products.

Prerequisite: **Phy. 351**.

Laboratory fee: \$2.50.

Required of fourth-year pharmacy students majoring in pharmaceutical chemistry.

Phy. 453.—Pharmaceutical Formulas. 1 hour and 3 hours laboratory. 2 credits. FOOTE.

A study of various classes of formulas such as are used in cosmetics, hospitals, dental work, veterinary practice, insecticides, fumigants, etc.

Prerequisites: **Phy. 354**.

Laboratory fee: \$5.

Phy. 471.—Advanced Commercial Pharmacy. 2 hours. 2 credits. HUSA.

A study of the commercial problems and business methods of the manufacturer, wholesaler, and retail chain store executive.

Prerequisite: **Phy. 372**.

Required of fourth-year pharmacy students majoring in commercial pharmacy.

GRADUATE COURSES

Phy. 502.—Selected Topics in Pharmacy.

Phy. 503.—Advanced Pharmacy.

Phy. 504.—Advanced Galenical Pharmacy.

Phy. 541.—Manufacturing Pharmacy.

Phy. 553.—Advanced Synthetic Pharmaceuticals.

Phy. 554.—Advanced Pharmacy.

See the *Bulletin of the Graduate School* for a description of the foregoing courses.

PHYSICAL EDUCATION

Pl. 101-102.—Gymnastics. 2 hours. 2 credits. DR. L. G. HASKELL AND STAFF.

Instruction in free exercises for general development and muscular coordination. Elementary work on apparatus, emphasizing form, approach, and execution.

Instruction and play in tennis, football, basketball, playground ball, track and baseball.

PHYSICS

Ps. 111-112.—Elementary Theory of Mechanics, Heat, Sound, Electricity and Light. 3 hours. 6 credits. Credit will be given for the first semester without the second, if the student so desires; however, the second semester cannot be taken without the first. WILLIAMSON in charge.

A college course designed to meet the needs of the general student.

Ps. 115-116.—Elementary Laboratory Physics. 1 hour demonstration and 3 hours laboratory. 4 credits. Credit will be given for the first semester without the second, if the student so desires; however, the second semester cannot be taken without the first. BLESS in charge.

A series of laboratory experiments in general physics designed to supplement Ps. 111-112 and should be taken by all students electing those courses.

Laboratory fee: \$2.25 each semester.

OTHER DEPARTMENTS

For a description of courses which may be used for approved electives and those courses listed above, consult the bulletins of the respective colleges in which the courses are offered.

AWARDS AND HONORS

Fairechild Scholarship, 1931	Louis Magid
F. C. Groover Loving Cup, Classes of 1925, 1926, 1927, 1929, 1930, 1931	
Groover-Stewart Scholarship, 1924-1927	J. Webster Merritt
" " " " , 1925-1928	Joseph H. Pearce, Jr.
" " " " , 1926-1929	Arnold D. Welch
" " " " , 1927-1930	Joseph M. Carter
" " " " , 1928-1931	Wesley J. Alonso
W. D. Jones Medal, 1925	Lloyd M. Chew
Ladies' Auxiliary Award for Scholarship, 1926	Lloyd M. Chew
Blanche Winfield Leigh Medal, 1925	Robert A. Jones
" " " " , 1926	Thomas J. Edwards, Jr.
" " " " , 1927	J. Webster Merritt
" " " " , 1928	Richard H. Swaine
" " " " , 1929	Clarence J. Lee
" " " " , 1930	Arnold D. Welch
" " " " , 1931	Lea G. Gramling
Pi Kappa Phi Fraternity Cup, 1926	Joseph H. Pearce, Jr.
D. W. Ramsaur Medal, 1925	Lloyd M. Chew
" " " " , 1926	John A. Gardner
" " " " , 1927	J. Webster Merritt
" " " " , 1928	Joseph H. Pearce, Jr.
" " " " , 1929	Arnold D. Welch
" " " " , 1930	Louis Magid
U. D. C., Florida Division Competitive Medal, 1926	Joseph H. Pearce, Jr.

ADDITIONAL INFORMATION

For further information address Townes R. Leigh, Dean, College of Pharmacy, University of Florida, Gainesville, Florida.

THE UNIVERSITY CALENDAR

1932-1933

First Semester

- September 9, 10, Friday-Saturday.....Entrance examinations.
 September 12, Monday, 11:00 a.m.1932-33 session begins.
 September 12-17, Monday-Saturday.....Freshman Week.
 September 16-17, Friday-Saturday
 noonRegistration of upperclassmen.
 September 19, Monday 8:00 a.m.....Classes for 1932-33 session begin; late
 registration fee \$5.
 September 24, Saturday 12:00 noon.....Last day for changing course without
 paying the \$2 fee.
 September 24, Saturday 12:00 noon.....Last day for registration for the first
 semester 1932-33.
 November 11, Friday.....Armistice Day; special exercises but
 classes are not suspended.
 November 23, Wednesday 5:00 p.m.....Thanksgiving recess begins.
 November 28, Monday 8:00 a.m.....Thanksgiving recess ends.
 December 17, Saturday 12:00 noon.....Christmas recess begins.

1933

- January 2, Monday 8:00 a.m.Christmas recess ends.
 January 23, Monday 8:00 a.m.....Final examinations for the first se-
 mester begin.
 January 29, Sunday.....Baccalaureate Sermon.
 January 30, Monday 10:00 a.m.....Commencement Convocation.
 February 1, Wednesday.....Inter-Semester Day, a holiday.

Second Semester

- February 2-3, Thursday-Friday.....Registration for second semester: all
 students whose names begin with "A"
 through "M" register on Thursday; all
 others on Friday.
 February 4, Saturday 8:00 a.m.....Classes for second semester begin;
 change of course fee, \$2; late registra-
 tion fee, \$5.
 February 10, Friday 5:00 p.m.....Last day for registration for second
 semester.
 April 5, Wednesday 5:00 p.m.....Spring recess begins.
 April 10, Monday 8:00 a.m.....Spring recess ends.
 May 25, Thursday 8:00 a.m.....Final examinations begin.
 June 3-5, Saturday-Monday.....Commencement Exercises.

Entrance Examinations

Entrance examinations for admission to the various colleges of the University will be conducted for students whose credits do not meet the requirements.

Candidates wishing to take any of these examinations should notify the Registrar in writing, not later than September 1, January 15, June 1, or June 20.

For further information concerning these examinations see the *Bulletin of General Information*.

The University Record

of the

University of Florida

Bulletin of the

Additions to the Student Roll

Second Semester

1931-32



Vol. XXVII, Series 1 No. 4 February 15, 1932

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The Record comprises:

The Reports of the President and the Board of Control, the Bulletin of General Information, the annual announcements of the individual colleges of the University, announcements of special courses of instruction, and reports of the University Officers.

These bulletins will be sent gratuitously to all persons who apply for them. The applicant should specifically state which bulletin or what information is desired. Address

THE REGISTRAR
University of Florida
Gainesville, Florida

Research Publications.—Research publications will contain results of research work. Papers are published as separate monographs numbered in several series.

There is no free mailing list of these publications. Exchanges with institutions are arranged by the University Library. Correspondence concerning such exchanges should be addressed to the University Librarian, University of Florida, Gainesville, Florida. The issue and sale of all these publications is under the control of the Committee on Publications. Requests for individual copies, or for any other copies not included in institutional exchanges, should be addressed to the University Library, University of Florida, Gainesville Florida.

The Committee on University Publications
University of Florida
Gainesville, Florida

ADDITIONS TO THE STUDENT ROLL, UNIVERSITY OF FLORIDA
SECOND SEMESTER 1931-32

The information is given in the following order: Name, Home Address, Class, Course, Gainesville Address, Fraternity, Telephone Number. Abbreviations used in designating classifications are: 1, 2, 3, 4, and 5, to indicate freshman, sophomore, junior, senior and special, respectively.

Alderman, John Daniel , 1923 Hubbard St. Jacksonville	Church, Daniel Duncan, 970 E. University Ave., Gainesville
1BA&L—17 Buckman Hall	5BAE
Anderson, Allan Malcolm, 1666 W. University Ave., Gainesville	Claywell, William Henry, 619 E. Hillshoro Ave., Tampa
1A	3BAE—1708 W. University Ave.
Arnold, P. T. Dix.....Bradenton	Coley, Herbert S., 503 N. 16th Ave., Pensacola
G—Experiment Station	2PL
Ashmore, John Durent, 313 N. Oak St., Gainesville	Crosby, Paul.....105 S. Fielding St., Tampa
1BA	1BA—325 Colleger Park Ave.
Barnett, Harlow.....217 E. 1st St., Jacksonville	Culbreth, Grey B.....Shamrock
2BA—Sigma Chi House—Sigma Chi	5BAE—211 Washington St.
Belcher, William Alexander.....Gloucester, Va.	Cullen, Ralph Osborne, 918 Ft. King Ave., Ocala
1PM—1638 Mechanic St.	1L 203 Cedar St.
Bennett, Russell Hardy, 108 W. 17th St., Jacksonville	Dicks, Roy.....Lulu
1E—1732 W. University Ave.	5BAE
Bialolenki, Andre Scara, 3506 Jamaica Ave., Long Island City, N. Y.	Dickson, Ray C, 1402 Rensselaire Ave., Jacksonville
1BAE—143 New Dormitory	5BAE
Bone, Elmer Edward, 2023 W. Leon St., Gainesville	Dorsett, Luke Monk, 231 Rubel St., Jacksonville
1Ag	3BAE—Phi Delta Theta House Phi Delta Theta
Borders, Huey Ingles, 1050 E. University, Gainesville	Duchesney, Clement, 1276 Challen St., Jacksonville
5Ag	1J—22 Buckman Hall
Boyette, James Ancil, 2723 Forbes St., Jacksonville	Elton, Robert Wilson , 1332 Avondale Ave., Jacksonville
2HP1—Sigma Chi House—Sigma Chi	2EE 1420 W. University Ave.
Bremer, DeLa Wilmore, 1824 Marshall St., Jacksonville	Emerson, Roy Wade, 241 Wagner Road Morgantown, W. Va.
1BSMA—1321 University Ave.	2PM Sigma Chi House Sigma Chi
Bridges, George Ford, 1431 W. Union St., Jacksonville	Entz, Noel Webster.....1212 Line St., Leesburg
1AB	1L 9 Thomas Hall
Buckley, John Albert, 116-16 Ave., S.E., St. Petersburg	Fenn, Wm. Browning , 2100 SW 12th St., Miami
4BAE—Beta Kappa House Beta Kappa	2BAJ Phi Kappa Tau House Phi Kappa Tau
Burgis, Donald Stafford 720 33d St., Bradenton	Fitz, Herman Fajen, 1629 Ionia Ave., Jacksonville
1J—159 New Dormitory	1E 56 Thomas Hall
Burgis, Wallace McKee.....720 33d St., Bradenton	Franklin, Benjamin Otis, Micanopy
1J—159 New Dormitory	1 BA&L Sigma Nu House Sigma Nu
Burkett, James Walton.....Macclenny	Fripp, Ethel Ione.....Bluffton, S. C.
1BS—56 Thomas Hall	5LD 1819 W. Seminary St.
Butler, William Oliver, Route 1, Box 675, South Jacksonville	Goldsmith, Jerome Harry , 2129 S.W. 1st St., Miami
G 1832 Court St.	1BA&L 1637 Mechanic St.
Byrnes, Robert Edward, 3219 Riverside Ave., Jacksonville	Gomez, John Richards, San Jose Biv L., Jacksonville
3BA&L Alpha Delta House—Alpha Delta	1BAE
Caldwell, Robert Clayton , 422 Osceola St., Orlando	Graham, Harry Thompson, 217 N. Calhoun St., Tallahassee
5HP1—Sigma Phi Epsilon House Sigma Phi Epsilon	2ME Sigma Phi Epsilon House Sigma Phi Epsilon
Cameron, Lindsay Evan, 3109 Plymouth St., Jacksonville	Gramling, Owen Irvin, N. Adams St., Tallahassee
5Ag—200 Washington St.	1BA 199 New Dormitory
Canova, Oscar Nolan, Jr.,.....Waldo	Griggs, Orris Bass.....Rockledge
1HP1 Kappa Sigma House Kappa Sigma	5HP1 Kappa Sigma House Kappa Sigma
Carnes, Carl Clinton.....Florahome	Grinstead, Alan Douglas, 259 High St., Orange, N. J.
G 507 E. Seminary St.	G 809 N. Virginia Ave.
Carter, Morgan Higdon, 970 E. University Ave., Gainesville	Hamilton, Wilbur J......Newberry
G	1Ag
Chace, William Henry, Jr., 28 Hendricks Ave., South Jacksonville	Hampton, Howell Morton, Jr., 1AB 200 Washington St.
1BA&L	Hart, Allen Ethrel.....Kathleen
Chipley, Edmund Lee, Jr.,.....Pineland	5BAE University Station
4ChE 1804 Hernando St.	Helliwell, Paul Lionel.....Setfner
	2AB 39 Buckman Hall
	Hill, J. Clarence.....Branford
	5BAE 891 W. Masonic St.
	Hogan, Ivey William.....Trenton
	3Av Florida Hall

Holland, Hilliard St. Petersburg
 2AB 135 DeSoto St.

Horn, Albert Wayne, 1918 E. Lakeview, Pensacola
 2PM 1137 W. University Ave.

Howell, Oscar Devier, Jr., 2806 Hillsboro, Tampa
 1BA&L

Hunter, Homer Glenn Pax, W. Va.
 3BS Peta Theta Pi House—Beta Theta Pi

Hurwitz, Edward L., St. Nicholas, Jacksonville
 1BAD 1410 W. University Ave. Phi Beta
 Delta

Hutchinson, Arnold Glen Penney Farms
 2Ag 129 College Park Ave.

Jamison, Jas. Ro't. Wabasso
 1Ag 1039 W. University Ave. Delta Sigma
 Phi

Johnwick, E. B. Gainesville
 5BS 525 Washington St.

Jones, Floyd Q. Wausau
 1BAE 330 Roux St.

Jones, Marcellus E. 966 E. Strong St., Pensacola
 1PM Delta Chi House Delta Chi

Kalinowsky, John Joseph Gainesville
 1HPI 224 W. Arlington St.

Kelly, Birdie L. Gainesville
 5BAE 1631 W. University Ave.

Knight, Paul Ernest Walnut St., Starke
 2BAD Kappa Sigma House—Kappa Sigma

Knight, William Henry Gainesville
 2PL—1548 W. Court St.

Lane, Thomas Warren, 4020 Central Ave., Tarapa
 5Ag—624 Garden St.

Larson, John Edwin Keystone Heights
 2L

Leffers, Richard 320 S. Iowa Ave., Lakeland
 1BAD

Levey, Bernard Frank, 1700 E. Jackson, Pensacola
 2ChE—New Dormitory

Lewis, George 316 E. Park Ave., Tallahassee
 1BAD—192 New Dormitory

Link, Howard Milton, 812 S. Orange Ave., Orlando
 1LD 1227 University Ave.

Leessner, Arno George Lake City
 1BSE—Sigma Alpha Epsilon House Sigma
 Alpha Epsilon

McArthur, Gertrude Melrose
 G

McCoy, Robert Collins Winter Haven
 2BAD—Sigma Alpha Epsilon House Sigma
 Alpha Epsilon

Mahone, John Thomas Tallahassee
 5CE—2084 Leon St.

Martin, James C. Moss Bluff
 3P Delta Chi House—Delta Chi

Mehrhof, Norman Ripley, 152 Main St., Ridgefield Park, N. J.
 G 327 N. Cedar St.

Merchant, Thomas Curry, 109 N. Washington, Madison
 5BS 335 E. University Ave.

Merrill, Ralph Standish, 1100 East Lloyd, Pensacola
 2ME

Middleton, Norma Leesburg
 G—2090 W. University Ave.

Mitchell, W. K. 1324 Seminole, Gainesville
 5FS

Mondul, Moses 1206 South St., Key West
 1E—N. Roux St.

Moon, Clyde Lee Gainesville
 1BAE—322 Roux St.

Mulrennan, Joseph Bernard Sydney
 3Pg Crane Hall

Murphy, James 317 E. Park St., Tallahassee
 1PL 322 Roux St.

Murphy, Sam Garrett, 1816 Ninth St., Bradenton
 2BA 1/2 Phi Delta Theta House—Phi Delta
 Theta

Padgett, Hansford Duncan Gainesville
 1L 1628 W. University Ave.

Priest, Clarence Patrick Route 1, Sanford
 5BAE 2039 W. Seminary St.

Reid, John Arthur 254 N.E. 30th St., Miami
 5A 511 E. Orange Ave.

Richards, LeRoy Franklin Ellenton
 2PM Phi Delta Theta House—Phi Delta
 Theta

Richards, Tom Gainesville
 2BAD Sigma Nu House—Sigma Nu

Richardson, Leitha James High Springs
 2Ag 352 W. Market St.

Robbins, Alex Gainesville
 1BS 1031 W. University

Rogers, Charles Buxton, 1412 Wolfe Ave., Jacksonville
 1HPI Delta Tau Delta House—Delta Tau
 Delta

Sapp, Howard William Panama City
 2 PL 1053 W. Union St.

Schirard, John Rozovo Sanford
 5BAD—Pi Kappa Alpha House—Pi Kappa
 Alpha

Sherard, Hoyt Graham, Ala.
 G 310 Washington St.

Sherman, Harley Bakwell, 11 Hampton Place, Ontario, N. Y.
 G—763 W. Hibiscus Park

Simmons, Russell Wausau
 1BAE—330 Roux St.

Smithy, Horace Gilbert, 2132 Wyoming Ave., N.W., Washington, D. C.
 1PM

Southwell, John Leon Blountstown
 1BSE—21 Buckman Hall

Stembler, John H., 1706 Country Club Prado, Coral Gables
 1BS Sigma Alpha Epsilon House—Sigma
 Alpha Epsilon

Stumph, Richard Myron, Route 6, Box 461, Jacksonville
 5Ag—Alpha Gamma Rho House—Alpha Gam-
 ma Rho

Tebakarian, Hagop Hunter, Box 456, Coral Gables
 5E 35 Buckman Hall

Tully, Emerson Glover, 304 S. Duval St., Tallahassee
 1BAE 940 W. University Ave.

VanLandingham, Herbert Casper, 321 Datura St., West Palm Beach
 3BA—Kappa Sigma House—Kappa Sigma

Wansker, Harry 2660 Forbes St., Jacksonville
 1BAD—1410 W. University Ave.

Weeks, Howell Tucker Trenton
 2PM Florida Hall

Weisner, John T. Waldo
 3HPI

Wiggert, Dohren William Gainesville
 5CE—133 Washington St.

Wilson, Delmar Grant, 111 So. Boulevard, Tampa
 1AB—211 Washington St.

Wilson, Henry Y., 426 E. 3rd St., Uhrichsville, Ohio
 G—2081 W. Leon St.

Wimer, Charles Augustus, 3246 Remington St., Jacksonville
 5BAD&E—1122 University Ave.—Theta Kap-
 pa Nu

Wishart, Elna Wells, 810 S. Orleans Ave., Tampa
 5A—528 N. Virginia St.

Witt, Alton C. Fort White
 1BAE

Wolfe, Lyndsay C. Clermont
 1E—68 Toomas Hall

Wolf, George Raymond, Thornton St., Orlando
 G Sigma Nu House—Sigma Nu

Wood, Fred William Evinston
 3Ag 946 E. University Ave.

The University Record

of the

University of Florida

General Information for the Year

1932-33



Vol. XXVII, Series 1

No. 5

March 1, 1932

Published semi-monthly by the University of Florida, Gainesville, Florida

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The Reports of the President and the Board of Control, the Bulletin of General Information, the annual announcements of the individual colleges of the University, announcements of special courses of instruction, and reports of the University Officers.

These bulletins will be sent gratuitously to all persons who apply for them. The applicant should specifically state which bulletin or what information is desired. Address

THE REGISTRAR
University of Florida
Gainesville, Florida

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The Committee on University Publications
University of Florida
Gainesville, Florida

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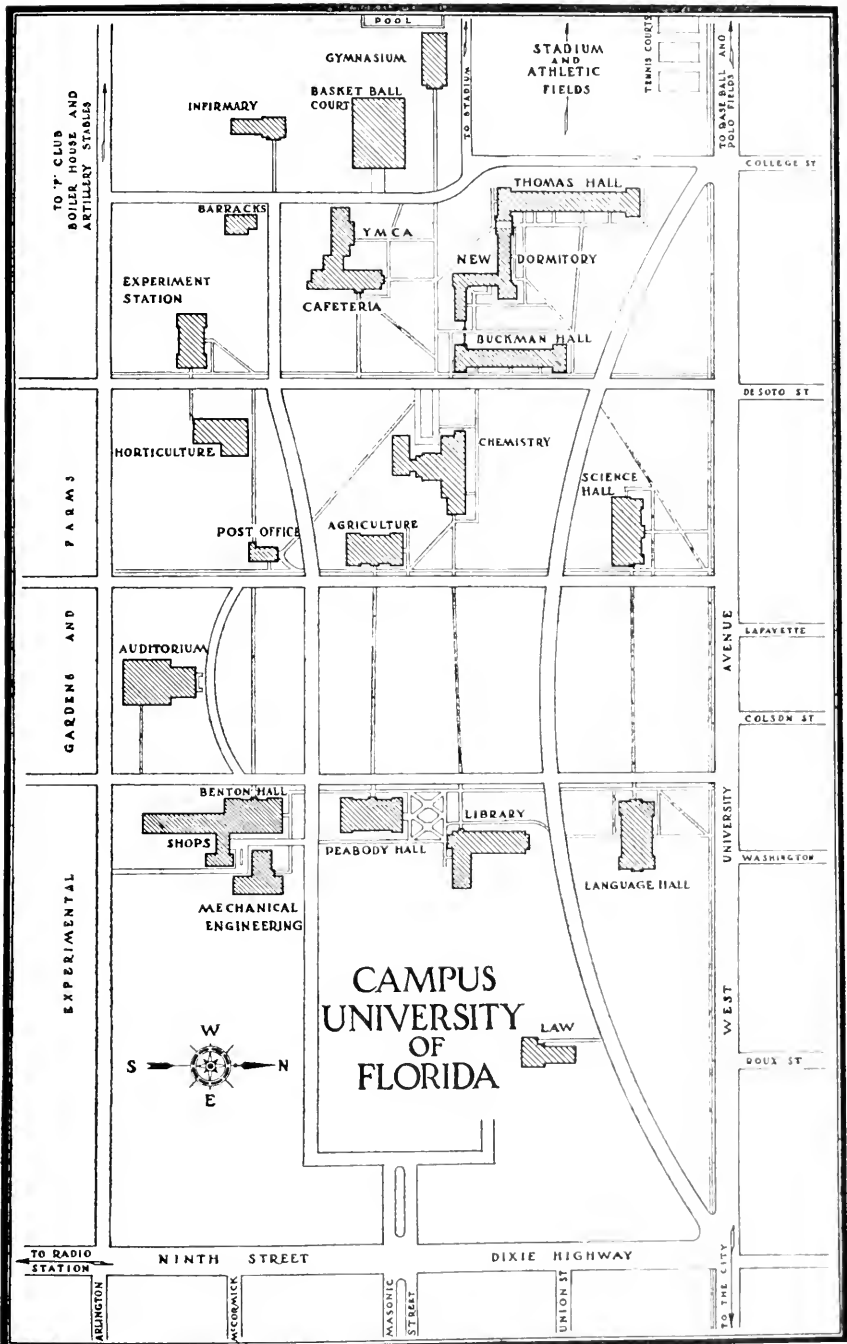
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HARLEY WILLARD CHANDLER, M.S.....	Secretary of the Council Director of Admissions and Registrar
BENJAMIN ARTHUR TOLBERT, B.A.E.....	Dean of Students

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EDGAR CHARLES JONES, LL.B.....	Director of Athletics
FRANK S. WRIGHT, B.S.J.....	Director of Publicity

THE UNIVERSITY CALENDAR

1932-33

Second Semester

1932

- February 4, 5, Thursday, Friday.....Registration for second semester: all students whose names begin with "A" through "L" register on Thursday; all others on Friday.
- February 6, Saturday 8:00 a.m.....Classes for second semester begin; change of course fee, \$2; late registration fee, \$5.
- February 11, Thursday.....Last day for registration for second semester.
- February 13, Saturday 2:00 p.m.....Meeting of the General Faculty.
- February 20, Saturday 12:00 noon.....Last day for filing applications for re-examinations.
- February 27, Saturday 12:00 noon.....Last day for making application for a degree at the end of the second semester.
Part I of re-examinations.
- March 5, Saturday 12:00 noon.....First delinquency reports due in the offices of the Registrar and the Dean of Students; Part II of re-examinations at 2:00 p.m.
- March 10, Thursday.....Last day for dropping a course without a grade.
- March 15, Tuesday.....Last day for those beginning graduate work in the second semester to file with the Dean an application (Form 2) to be considered candidates for advanced degrees.
- March 31, Thursday 5:00 p.m.....Mid-semester grades are due in the office of the Registrar; delinquency reports are due in the office of the Dean of Students.
- April 6, Wednesday 5:00 p.m.....Spring recess begins.
- April 11, Monday 8:00 a.m.....Spring recess ends.
- April 30, Saturday 12:00 noon.....Final delinquency reports due in the offices of the Registrar and the Dean of Students.
- May 2, Monday.....Last day for graduate students, graduating at the end of the semester, to submit theses to the Dean.
- May 26, Thursday 8:00 a.m.....Final examinations begin.
- June 4, Saturday 2:00 p.m.....Meeting of the General Faculty.
- June 4-6, Saturday to Monday.....Commencement Exercises.
June 4, Saturday.....Class Day Exercises and Oratorical Contests.
June 5, Sunday 11:00 a.m.....Baccalaureate Sermon.
June 6, Monday 10:00 a.m.....Commencement Convocation.

- June 6, Monday 5:00 p.m.....All grades are due in the office of the Registrar.
 June 6, Monday.....Boys' Club Week begins.

Summer Session

- June 13, 14, Monday, Tuesday.....Registration.
 June 15, Wednesday 8:00 a.m.....Classes begin 1932 Summer Session.
 June 25, Saturday noon.....Last day for filing with the Registrar an application for a degree at the end of the summer session.
 July 4, Monday.....Independence Day, a holiday.
 July 9, Saturday.....Last day for graduate students graduating at the end of the summer session to submit theses to the Dean.
 July 11, Monday.....Last day for those beginning graduate work to file with the Dean an application (Form 2) to be considered candidates for advanced degrees.
 July 16, Saturday.....Classes suspended.
 July 30, Saturday.....Classes suspended.
 July 31, Sunday 8:00 p.m.....Summer Session Baccalaureate Sermon.
 August 4, Thursday 8:00 p.m.....Summer Session Commencement Exercises.
 August 5, Friday 12:00 noon.....Summer Session ends.
 August 8-13, Monday, Saturday.....Annual Farmers' Week.
 August 31, Wednesday.....Last day for filing applications for fall re-examinations.

First Semester

- September 9, 10, Friday-Saturday.....Entrance examinations.
 September 12, Monday, 11:00 a.m.....1932-33 session begins.
 September 13, 14, Tuesday-Wednesday..Re-examinations.
 September 12-17, Monday-Saturday.....Freshman Week.
 September 16, 17, Friday-Saturday
 12 noonRegistration of upperclassmen.
 September 19, Monday 8:00 a.m.....Classes for the 1932-33 session begin; late registration fee \$5.
 September 24, Saturday 12:00 noon.....Last day for changing course without paying the \$2 fee.
 September 24, Saturday 12:00 noon.....Last day for registration for the first semester 1932-33.
 October 3, Monday 7:00 p.m.....Meeting of the General Faculty.
 October 8, Saturday 12:00 noon.....Last day for making applications for a degree at the end of the first semester.
 October 15, Saturday 12:00 noon.....Last day for dropping courses without receiving grade.
 Freshmen and Sophomore delinquency reports are due in the office of the Registrar and the office of the Dean of Students.

- November 1, Tuesday.....Last day for those beginning graduate work to file with the Dean an application (Form 2) to be considered candidates for advanced degrees.
- November 11, Friday.....Armistice Day; special exercises, but classes are not suspended.
- November 16, Wednesday 5:00 p.m.....Mid-semester grades are due in the office of the Registrar; delinquent grades for freshmen and sophomores are due in the office of the Dean of Students.
- November 23, Wednesday 5:00 p.m.....Thanksgiving recess begins.
- November 28, Monday 8:00 a.m.....Thanksgiving recess ends.
- December 10, Saturday 12:00 noon.....Delinquency reports of freshmen and sophomores are due in the offices of the Registrar and the Dean of Students.
- December 17, Saturday 12:00 noon.....Christmas recess begins.
1933
- January 2, Monday 8:00 a.m.....Christmas recess ends.
Last day for those graduating at the end of the first semester to submit theses to the Dean.
- January 23, Monday 8:00 a.m.....Final examinations for the first semester begin.
- January 29, Sunday.....Baccalaureate Sermon.
- January 30, Monday 10:00 a.m.....Commencement Convocation.
- January 31, Tuesday 12:00 noon.....First semester ends; at 5 p.m. all grades are due in the office of the Registrar
- February 1, Wednesday.....Inter-Semester Day, a holiday.

Second Semester

- February 2-3, Thursday-Friday.....Registration for second semester; all students whose names begin with "A" through "M" register on Thursday; all others on Friday.
- February 4, Saturday 8:00 a.m.....Classes for second semester begin; change of course fee, \$2; late registration fee, \$5.
- February 10, Friday 5:00 p.m.....Last day for registration for second semester.
- February 11, Saturday 2:00 p.m.....Meeting of the General Faculty.
- February 18, Saturday 12:00 noon.....Last day for filing applications for re-examinations.
- February 25, Saturday 12:00 noon.....Last day for making application for a degree at the end of the second semester. Part I of re-examinations at 2:00 p.m.

- March 4, Saturday 12:00 noon.....First delinquency reports due in the offices of the Registrar and the Dean of Students; Part II of re-examinations at 2:00 p.m.
- March 9, Thursday 5:00 p.m.....Last day for dropping a course without a grade.
- March 15, Wednesday.....Last day for those beginning graduate work in the second semester to file with the Dean an application (Form 2) to be considered candidates for advanced degrees.
- March 29, Wednesday 5:00 p.m.....Mid-semester grades are due in the office of the Registrar; delinquency reports are due in the office of the Dean of Students.
- April 5, Wednesday 5:00 p.m.....Spring recess begins.
- April 10, Monday 8:00 a.m.....Spring recess ends.
- April 29, Saturday 12:00 noon.....Final delinquency reports due in the offices of the Registrar and the Dean of Students.
- May 1, Monday.....Last day for graduate students, graduating at the end of the semester, to submit theses to the Dean.
- May 25, Thursday 8:00 a.m.....Final examinations begin.
- June 3, Saturday 2:00 p.m.....Meeting of the General Faculty.
- June 3-5, Saturday-Monday.....Commencement Exercises.
- June 3, Saturday.....Class Day Exercises and Oratorical Contests.
- June 4, Sunday 11:00 a.m.....Baccalaureate Sermon.
- June 5, Monday 10:00 a.m.....Commencement Convocation.
- June 5, Monday 5:00 p.m.....All grades are due in the office of the Registrar.
- June 5, Monday.....Boys' Club Week begins.

1933

The Summer Session

- June 12, Monday.....1933 Summer Session begins.
- August 4, Friday 12:00 noon.....1933 Summer Session ends.
- August 7-12, Monday- Saturday.....Farmers' Week.

First Semester

- September 11, Monday 11:00 a.m.....1933-34 Session begins

Entrance Examinations

Entrance examinations for admission to the various colleges of the University will be conducted for students whose credits do not meet the requirements.

Candidates wishing to take any of these examinations should notify the Registrar in writing, not later than September 1, January 15, June 1, or June 20.

For further information concerning these examinations see under "Admission by Examination".

INTRODUCTORY STATEMENT

PURPOSE

The general information bulletin contains such material as will be helpful to the high school graduate or prospective student, and his parents. In it is found the necessary information about the entrance requirements, living conditions, fees, University organizations, etc.

It is sent out on request for such help as it may give young men who are thinking of coming to the University. It is not designed to urge a college education on any or all who may receive it. It will serve its purpose if it helps in the thoughtful consideration that should be given by parents and high school graduates when they choose a college education from among the many opportunities for further training. It presents a certain type of training which should be considered in relation to other opportunities such as vocational and trade schools of the better kind, normal schools and teachers colleges, junior and private colleges, and extension courses and correspondence schools. The controlling factor in any decision should be the best interests of the individual and his capacity to make successful use of the opportunities offered by the University or by any of the agencies suggested above. The choice is often not an easy one. Perhaps the following suggestions may be helpful.

As the boy approaches the period of responsible manhood the kind of training in final preparation for life may often be clearly indicated by the character of the individual's high school work.

The first choice which the student has to make is that between a long period of studies and some immediate employment such as a mechanical trade, buying and selling, clerical work, and many others, perhaps preceded by a shorter period of special study or training.

The wise student will make his decision after an inventory of his own real interests and abilities and will in any case avoid a choice that does not open up to him opportunities to use to the fullest his abilities as they are or as they develop.

Generally speaking, those who like their high school studies and are successful in them are more likely to succeed in college studies. Of those who stand in the lowest one fourth of their high school classes, very few are successful in college work. Most of these would do well to consider other types of training for a vocation in which they may be successful. About 80% of those who stand in the highest one-fourth of their high school classes make satisfactory records in college. It is very unfortunate for those young people who have shown their aptitude for studies to be drawn into employment immediately after high school when most of them are capable of preparing for and assuming positions of high responsibility and honor in industrial and social life of state and nation. Given good health and the power of application, those who like their high school studies and stand high in them ought to make every effort to secure college training.

College work is very different from high school work. It deals with a higher order of studies and demands constant advancement to more difficult studies which require intellectual growth and expansion. The college conducts

its work with a view to developing initiative, independent judgment, and responsibility in its students for the two reasons that the studies require these qualities and that the students are just becoming men and must assume the duties and obligations of men.

FRESHMAN WEEK

The University recognizes the need of giving its newly entering students an introduction to their work and to university life, which is new and strange to them. Accordingly, freshmen are required to come to the University for one week before classes begin, for a period of adjustment known as Freshman Week. This period, from September 12th to September 17th inclusive, will be used by the freshman for the following duties:

1. Making his living arrangements.
2. Registration and paying his fees.
3. Physical examinations.
4. Psychological tests.
5. Other tests or examinations which will enable the faculty to place him in the classes for which he is best fitted.
6. Hearing lectures on such subjects as the use of the Library and how to study.
7. Making visits to acquaint himself with the University Library, scientific laboratories, and other points of interest in connection with his choice of studies and future occupations.
8. Special exercises intended to acquaint him with the peculiar conditions or requirements of the college which he enters.
9. Musical and social entertainments in the evenings arranged with the cooperation of the Student Council and the various religious bodies.
10. Meeting with student government bodies in order to understand their activities.

During the process of registration, faculty advisers talk with all students, helping them to make the best selection of studies.

A committee on educational guidance maintains an office for conference with freshmen regarding their general vocational and educational problems.

Administrative officers, faculty, student government councils, upper-class students, and organizations for religious work all cooperate to make Freshman Week a period during which the freshmen find themselves, learn how to go about their university work, and how to profit by the opportunities for recreation and other activities in addition to their studies.

A detailed program of Freshman Week will be supplied each applicant for registration.

NOTICE THAT ATTENDANCE FROM SEPTEMBER 12TH TO 17TH, INCLUSIVE, IS A REQUIREMENT.

A strict attendance check will be kept on all Freshman Week conferences. Absences will be charged as class absences. The University reserves the right to refuse admission to any student who wilfully absents himself from any of these conferences.

NOTICE TO PROSPECTIVE STUDENTS

1. Credentials should be submitted as soon as possible after the close of the spring term, and in no case later than September 1, 1932.

2. Students who do not observe this regulation must expect to undergo the inconvenience of delay in being notified of their status. This may lead to embarrassing results in the event the candidate in question is not qualified for admission, as the time for removing deficiencies is thereby curtailed.

3. Credits must be sent directly to the Registrar, University of Florida, by the proper official at the school last attended. Credits received otherwise will have to be returned for verification, thus causing delay and inconvenience to the candidate in question.

ORGANIZATION OF THE UNIVERSITY

The university is organized in schools, colleges, and divisions, as follows:

THE GRADUATE SCHOOL

THE COLLEGE OF ARTS AND SCIENCES

THE COLLEGE OF AGRICULTURE including

THE COLLEGE PROPER

THE AGRICULTURAL EXPERIMENT STATIONS

THE AGRICULTURAL EXTENSION SERVICE

THE COLLEGE OF ENGINEERING including

THE ENGINEERING EXPERIMENT STATION

THE COLLEGE OF LAW

THE COLLEGE OF EDUCATION

THE COLLEGE OF PHARMACY including

THE MEDICINAL PLANT GARDEN

THE COLLEGE OF COMMERCE AND JOURNALISM

THE SCHOOL OF ARCHITECTURE AND ALLIED ARTS

THE GENERAL EXTENSION DIVISION

THE SUMMER SESSION

THE DIVISION OF ATHLETICS AND PHYSICAL EDUCATION

THE DIVISION OF MILITARY SCIENCE AND TACTICS

THE DIVISION OF MUSIC

THE FLORIDA STATE MUSEUM

THE UNIVERSITY LIBRARY

THE STUDENT HEALTH SERVICE

THE BROADCASTING STATION WRUF

COURSES AND DEGREES

Brief summarized statements of the courses of study offered by the University of Florida, together with the degree to which each leads, are listed below.

The University does not issue a complete catalog of courses in one volume, but a full outline of each of these courses of study, together with descriptions of the subject matter courses which they include, will be found in the announcement of the college or school in which the course of study is offered.

These announcements may be obtained by addressing the Registrar, University of Florida, Gainesville, Florida.

COLLEGE OF ARTS AND SCIENCES

The curricula offered in the College of Arts and Sciences are designed to give the student a broad, basic knowledge of the humanities, the social sciences, and the physical and biological sciences. Opportunity is provided for concentration and the development of special techniques.

The course of study leading to the Bachelor of Arts Degree.—This is a four-year course in which the humanities and social sciences are emphasized. The study of foreign language is given some prominence, both ancient and modern languages being offered. College English, foreign language, history, and mathematics are required of every student electing this course, and to insure some understanding of scientific fact and method, every student is required to study a basic year course in one of the natural sciences, in addition to which he may elect a limited amount of work in natural science if he so desires.

The course of study leading to the Bachelor of Science Degree.—Students who are interested primarily in the sciences may hope to gain a thorough introduction to the natural sciences and a working grasp of scientific methods by pursuing this four-year curriculum. Each student must select one science, in which he is expected to gain a mastery. A limited amount of foreign-language study is required in order that the student may have a reading knowledge of scientific writings from other countries. The candidate for this degree is expected also to acquire breadth of viewpoint and training by devoting some time to the study of mathematics, English, and kindred subjects.

The combined Academic and Law Course.—Students of superior ability may meet the requirement for admission to the College of Law by pursuing the combined academic law course. In this course a fixed amount of law credit may be substituted for free electives in either the A. B. course or the B. S. course. Under this arrangement the student may earn one of the above degrees, together with a degree in law, by three years of intensive study in the College of Arts and Sciences, followed by three years of study in the College of Law. The work in the College of Arts and Sciences must be completed before the student will be admitted to the College of Law. The bachelor's degree in arts or sciences will be conferred after the candidate has satisfactorily completed one full year in the College of Law.

The Pre-Medical Course.—A two-year pre-medical course is offered to meet the requirements of some medical schools. Students wishing to attend medical schools requiring more than two years of pre-medical training can meet the requirement by taking the two-year pre-medical course here described, following which they can be registered as B.S. students. Emphasis is placed on a good foundation in biology and physics, while special emphasis is given to the study of chemistry.

Pre-Dental Course.—For most students this course is identical with the first year of the pre-medical course. The student should correspond with the dean of the dental college which he wishes to enter, however, in order that he may know the exact requirements for entrance to that college. Every legitimate effort will be made to meet these requirements within one academic year, unless the dental college specifies a longer period of pre-dental training.

COLLEGE OF AGRICULTURE

The College of Agriculture provides opportunities for gaining technical knowledge and training in the art and science of agriculture in order to enable graduates to become leaders in agricultural education or effective producing agriculturists.

The course leading to the degree of Bachelor of Science in Agriculture.—The student may major in Agricultural Education or in any one of the following departments: Agricultural Economics, Agricultural Engineering, Agronomy, Animal Husbandry and Dairying, Agricultural Chemistry, Entomology and Plant Pathology, and Horticulture. By the beginning of his junior year the student must have selected his major, in which he must take not less than fifteen nor more than thirty hours.

The course leading to the degree of Bachelor of Science in Landscape Design.—This is a four-year course designed to train the student in the laying out of areas of land for use and beauty. Theory is stressed, problems are given, and sound landscape practice is emphasized.

The Short Courses.—Students 18 years old or over, who desire more knowledge in agriculture either along general lines or in some special field such as dairying, poultry husbandry, fruit growing, etc., may enter at the beginning of either the first or second semester, and select from a list of subjects such as they think will be of greatest value to them.

Those having only a knowledge of common school branches should select first the subjects numbered below 100. Those with high school or college training may select those marked above 100.

Each semester is, as nearly as possible, complete in itself; a student may, therefore, attend but one semester a year and continue doing so until four semesters have been completed.

The Agricultural Experiment Station.—The Agricultural Experiment Station, including its branch stations and field laboratories, constitutes the research division of the College of Agriculture. A Congressional act, known as the Hatch Act of 1882, provided for the establishment of agricultural experiment stations at each land-grant college, and the Florida Station was established in 1887. Its purpose is to acquire and diffuse agricultural knowledge.

The Station is supported by both Federal and State appropriations. Such appropriations must be used for acquiring new and important knowledge in regard to crops, soils and livestock and for research in agriculture and home economics. No funds can be expended for teaching purposes or for extension work, and only a very small part of the Federal funds may be used for buildings or repairs.

The Dean of the College of Agriculture is also Director of the Experiment Station. The organization of the Station's work, in so far as Federal funds are concerned, must comply with Federal law and is under the immediate supervision of the Office of Experiment Stations of the United States Department of Agriculture, Washington, D. C.

Information acquired by the Station is immediately available to the Teaching and Extension Divisions of the College and is also published in bulletin form for free distribution.

Agricultural Extension Work.—The cooperative Agricultural Extension Service provides for instruction and practical demonstration in agriculture and home economics to persons not attending or resident in the college.

Agricultural extension work is conducted in accordance with the terms of the Smith-Lever, Capper-Ketcham, and supplementary acts of Congress. These acts provide that agricultural extension work in each state shall be conducted in such a manner as shall be mutually agreed upon by the Secretary of Agriculture, United States Department of Agriculture, and the state colleges of the respective states.

The acts provide for annual Congressional appropriations, and require that each state provide additional funds as offset.

Extension agents conduct demonstration work in agriculture and home economics in counties under a cooperative agreement with the county board whereby in each county where extension agents are employed, the county pays a pro rata part of the agents' salaries and expenses.

The program for extension work provides for eighteen active projects as follows: administrative, publications, county agents, boys' club work, home demonstration work, home improvement, nutrition, foods and marketing, dairy husbandry, poultry husbandry, animal husbandry, agricultural economics, extension schools, citrus culture, farm and home makers' clubs for negroes, agronomy, rodent control, Florida National Egg Laying Contest.

The supervisory agents for home demonstration work are located at the Florida State College for Women, and for negro extension at the Florida A. & M. College for Negroes, Tallahassee, Florida.

The state is divided into three districts. Each district has a supervisor for men's and boys' work, and a supervisor for women's and girls' work. For the direction of negro work there is one district supervisor for men's work, and one district supervisor for women's work.

Fourteen specialists are employed to assist the State extension programs.

The Florida National Egg Laying Contest is maintained at Chipley, Florida, by a state appropriation. It is under the direction of the Agricultural Extension Service. Housing facilities for one hundred pens of ten birds each are provided.

Special events.—

- 4-H Club Boys' Annual Meeting, University of Florida
- 4-H Club Girls' Annual Meeting, State College for Women
- Annual 4-H Club summer camp, Choctauhatchee Bay
- Extension Agents' Annual Meeting, University of Florida
- Farmers' and Fruit Growers' Week, University of Florida

THE COLLEGE OF ENGINEERING

The College of Engineering offers professional four-year courses of study in the four fields described below. The work of the freshman year is the same for all engineering students, so that each student has the opportunity to choose the branch of engineering he wishes to follow before the beginning of his sophomore year.

The course leading to the degree Bachelor of Science in Chemical Engineering.—The courses in chemical engineering are designed to familiarize the student with the efficient construction and economic operation of chemical plants. The problems involved in the commercial manufacture of organic and inorganic chemicals, and the methods employed to solve these problems, are considered in detail.

The course leading to the degree Bachelor of Science in Civil Engineering.—In this department the courses are designed to give the student a comprehensive grasp of the principles underlying the practice of civil engineering, so that upon graduation he will be prepared to fill such positions as are usually allotted to young engineers in general engineering, or in the special branches such as highway, railroad, hydraulic, sanitary, structural, and topographical engineering.

The course leading to the degree Bachelor of Science in Electrical Engineering.—The department of electrical engineering endeavors to give the student thorough instruction in the principles of electrical design, installation, and operation. Considerable time is given to problems pertaining to the generation, transmission, distribution, and utilization of electrical energy. During the coming year additional emphasis will be given to the field of communication.

The course leading to the degree Bachelor of Science in Mechanical Engineering.—Mechanical Engineering is a basic engineering course. Instruction in this department is given in both theory and practice. Accuracy, neatness, and systematic presentation are required in all class and home-study drawings and problems. It is the aim of the course to produce engineers of independent thought and original power. The graduate is well qualified to readily adjust himself and give efficient service in the industries and public utility companies.

Engineering Experiment Station.—The Engineering Experiment Station is an organization in the College of Engineering for the purpose of investigating problems of importance to professional engineers and to the industries of manufacturing, transportation, and public utilities.

Engineering Pre-Business Course.—This course requires much of the first two years of the work in the College of Engineering, and of the last two years in the College of Commerce and Journalism. Upon the completion of the

course the degree Bachelor of Science in Business Administration is conferred. The student registers in the College of Commerce and Journalism for the entire course.

COLLEGE OF LAW

The aim of the College, which is a member of the Association of American Law Schools, registered by the New York Board of Regents, and an approved school of the American Bar Association, is to impart a thorough, scientific, and practical knowledge of the law. Receiving only students of good academic preparation, it gives them intensive training for the practice of law. Instruction covers the cultural, ethical, technical, and practical aspects of the profession. Sufficient courses are offered to enable a student to gain some specialization in the field of his choice. As much as six semester hours in Legal Research, under faculty supervision, may be offered for a degree, thereby enabling a student to do considerable creative work. Emphasis is given to Pleading and Practice, and the theory is applied in the Practice Court. Students are given an extensive working knowledge of Florida law, and graduates are admitted to the state and federal bars without examination.

A three-year course is offered, eighty-five semester hours being required for the degree of Bachelor of Laws (LL.B.) or Juris Doctor (J.D.). Students with the degree of Bachelor of Arts or an equivalent degree from an approved college or university who maintain an average standing of B in their law studies will be awarded the degree of Juris Doctor.

THE COLLEGE OF EDUCATION

The College of Education offers courses designed to furnish its students with such training as will be most useful to them in the profession of teaching, preparing them for positions as teachers, principals, supervisors, and city and county superintendents of public instruction.

The course leading to the Normal Diploma is a two-year course leading to what is sometimes called the L.I. degree. The diploma entitles the holder to a Graduate State Certificate, valid for five years, and permits the holder to teach, through the ninth grade, the subjects in which he has specialized.

The course leading to the degree of Bachelor of Arts in Education is a four-year course which entitles the holder of the degree to receive a Graduate State Certificate, valid for five years, and renewable for life upon the successful completion of twenty-four months' teaching in Florida.

The course leading to the degree of Bachelor of Science in Education is a four-year course including a required natural science group. The degree entitles the holder to a Graduate State Certificate, valid for five years, and renewable for life on the successful completion of twenty-four months' teaching in Florida.

The course leading to the degree of Bachelor of Arts or Bachelor of Science in Physical Education is a four-year course including a required group of studies in physical education. The degree entitles the holder to a Graduate State Certificate, valid for five years, and renewable for life on the successful completion of twenty-four months' teaching in Florida.

The course leading to the degree of Bachelor of Science in Agricultural Education is a four-year course offered for students who expect to become teachers of agriculture in the high schools of Florida. The degree entitles the holder to a Graduate State Certificate, valid for five years, and renewable for life upon the successful completion of twenty-four months' teaching in Florida.

The course leading to the degree of Bachelor of Science in Manual Arts is a four-year course entitling the holder of the degree to a Graduate State Certificate, valid for five years, and renewable for life upon the successful completion of twenty-four months' teaching in Florida.

The course leading to the degree of Bachelor of Science in Commercial Education is a four-year course designed for those who expect to teach commercial education in the public schools of Florida. The holder of this degree will be authorized to teach all courses in commercial education and will be entitled to a Graduate State Certificate, valid for five years, and renewable for life upon the successful completion of twenty-four months' teaching in Florida.

The Employment Bureau.—In order to assist graduates of the University and to serve the state as a whole, a Teachers' Employment Bureau has been established by the College of Education. Services are furnished free of charge by the Director. The Bureau is open throughout the year.

THE COLLEGE OF PHARMACY

As a member of the American Association of Colleges of Pharmacy the College receives due recognition for its courses from state boards of pharmacy requiring graduation from a school of pharmacy of membership rank as a prerequisite for examination and registration. The curricula are designed to provide a broad scientific education, to train retail pharmacists, and through the selection of electives to provide opportunities for specialization in commercial pharmacy, pharmaceutical chemistry, pharmacognosy or pharmacology.

The Three-Year Course. This course, which leads to the diploma of Graduate in Pharmacy, requires 102 semester hours for its completion. The course is being discontinued. Only the second and third years of this course are being offered in 1932 and 1933, and its third year in 1933-34. Therefore, freshmen students entering in 1932 and thereafter can register only for the four-year course. Students of advanced standing may, upon presentation of the proper credits, be admitted for the present year to the second or third-year class.

The Four-Year Course. This course leads to the degree of Bachelor of Science in Pharmacy. It is now the only course open to freshmen.

Graduate Courses.—Courses under the direction of the Graduate School are offered leading to the degrees of Master of Science in Pharmacy and Doctor of Philosophy, with Chemistry, Pharmacognosy or Pharmacy as the major subject.

Medicinal Plant Garden.—The Department of Pharmacognosy and Pharmacology maintains a drug garden which serves for three purposes: (1) as a teaching adjunct offering the students an opportunity to study the methods of propagation, cultivation, curing, and preparation of drug plants for mar-

ket; (2) as a source of supply of fresh plant material for classroom and laboratory, and also for investigation; (3) to carry on cultural experiments in the growing of various medicinal plants.

THE COLLEGE OF COMMERCE AND JOURNALISM

The College of Commerce and Journalism offers two degrees: Bachelor of Science in Business Administration, and Bachelor of Science in Journalism. These degrees are granted on completion of four types of curricula; the curriculum leading to the Bachelor of Science in Business Administration, the curriculum leading to the Bachelor of Science in Business Administration in combination with Law, the curriculum leading to the Bachelor of Science in Journalism, and the curriculum leading to the Bachelor of Science degree in Business Administration in combination with Engineering.

The Curriculum in Business Administration.—The course in Business Administration extends over a period of four years. It contains both general and professional courses. The first two years are devoted wholly to required subjects largely cultural in nature and are intended to provide the student with a broad intellectual foundation. The last two years provide an opportunity for professional specialization in eight different fields of business. When the student has completed his freshman and sophomore years, he is required to elect one of the eight groups, and adhere strictly to that group throughout his junior and senior years. These eight groups are arranged in such a way as to represent the principal fields of business and to provide the student with an arrangement of courses leading to professional specialization in the field that best fits his needs and interests.

The Curriculum in Combination with Engineering.—The College of Commerce and Journalism offers a four-year course leading to the degree of Bachelor of Science in Business Administration in combination with Engineering. This curriculum has been arranged for students who wish to prepare for executive and selling positions in the field of manufacturing and railway and public utility operation. The student registers in the College of Commerce and Journalism, but takes his first two years largely in fundamental engineering subjects in the College of Engineering.

The Curriculum in Combination with Law.—The College of Commerce and Journalism combines with the College of Law in offering a six-year program of study to students who desire ultimately to enter the College of Law. Students register during the first three years in the College of Commerce and Journalism and when they have fully satisfied the academic requirements of these three years, they are eligible to register in the College of Law and may during their last three years complete the course in the College of Law. When students, after entering the College of Law, have satisfactorily completed one year's work in law, they may offer this year of work as a substitute for the fourth year in the College of Commerce and Journalism and receive the degree of *Bachelor of Science in Business Administration*. The foregoing regulations, in so far as they apply to admission to the College of Law, become effective September 1, 1933.

The Curriculum in Journalism.—The course in Journalism extends over a period of four years. The technical training, embracing thirty-nine semester hours in journalism, is supplanted by a broad range of training in English, history, economics, sociology, psychology, government, and business management in order to provide the proper background for such dealing with the problems of complex, modern civilization as is required of newspaper men.

SCHOOL OF ARCHITECTURE AND ALLIED ARTS

The School of Architecture and Allied Arts offers two four-year courses, one leading to the degree of Bachelor of Science in Architecture and the other to the degree of Bachelor of Fine Arts. Special courses which do not lead to a degree are also offered, under certain circumstances, for mature students who are adequately prepared.

The Curriculum in Architecture has been devised to meet the needs of those who desire to become general practitioners or architectural designers, draftsmen, building inspectors, contractors or structural designers, etc.

The curriculum leading to the degree of Bachelor of Fine Arts is devised to prepare students by means of sound training in drawing, composition and design, and in the use of color, for such fields of endeavor as advertising design, illustration, mural and portrait painting.

SUMMER SESSION

The University Summer Session is an integral part of the University. The College of Education, the College of Arts and Sciences, the College of Law, the College of Commerce and Journalism, the College of Agriculture, and the Graduate School are kept open during the summer. Emphasis is placed upon college and graduate work, no work of high school rank being offered.

Since women are admitted to the Summer Session, many professional courses for primary and elementary school teachers are offered in addition to those usually given in the winter session.

THE GRADUATE SCHOOL

Organization.—The Graduate School is administered by the Dean and the Graduate Council appointed annually by the President of the University. The Dean is Ex-Officio Chairman of this Council.

Prerequisite Degrees.—Graduates of the University of Florida or of other institutions of like rank who have a satisfactory record, including the required foundation-courses, are eligible for admittance to the Graduate School.

Degrees Offered.—The following degrees are offered in this school: Master of Arts, Master of Arts in Architecture, Master of Arts in Education, Master of Science, Master of Science in Agriculture, Master of Science in Engineering, Master of Science in Journalism, Master of Science in Pharmacy.

In a very few departments, the University is prepared to offer the degree of Doctor of Philosophy.

GENERAL EXTENSION DIVISION

The General Extension Division of the University of Florida serves the people of the state by offering educational opportunities to those who are removed from the campus, and assists in promoting the general advancement of the people through numerous service functions.

The Division represents the Colleges of Arts and Sciences, Education, Engineering, Law, Pharmacy, Commerce and Journalism of the University, and the Colleges of Arts and Sciences and the Schools of Education and Music of the State College for Women.

The work is carried on through departments. The Extension Teaching Department offers courses by correspondence study and in extension classes. Short courses, community institutes, and conferences are held to give opportunity for discussion on problems confronting groups or communities. The Department of Auditory Instruction offers cultural programs, instruction, information, and entertainment by lectures and discussion for the benefit of special groups, schools, and individuals.

Training for naturalization, citizenship schools, and cooperation with the War Department in enrolling young men for the Citizens' Military Training Camps because of their educational value, are some phases of the work of the Department of Citizenship Training.

Through the Departments of Visual Instruction and General Information and Service, the outside world of letters and arts and music is carried to thousands in the back country through the traveling libraries and art exhibits which are sent out. A picture of the world and its work is circulated in the slides and filmstrips furnished for instruction and entertainment. The best in recorded music is provided for work in music appreciation and for culture.

These and the various service functions of the Division establish contacts which enable the University to aid individuals, organizations, and communities, and contribute much to adult education.

THE DIVISION OF MUSIC

The Division of Music offers opportunity for membership in four musical organizations: The Military Band, the Orchestra, the Glee Club, and the Convocation Choir.

The *Band* is made up in part of students in the freshman and sophomore years who take military training. The Band frequently plays at athletic contests and takes several trips a year.

The *Orchestra* plays at the regular Thursday morning Convocation.

The *Glee Club* makes several trips a year throughout the state.

The *Convocation Choir* attends Thursday morning Convocation and assists in the singing.

Opportunities are afforded qualified students to broadcast as soloists, instrumentally or vocally, over the radio station WRUF.

Private lessons in violin, orchestra instruments, band instruments, voice, organ, and piano may be arranged. A tuition will be required of all students taking private lessons.

DIVISION OF MILITARY SCIENCE AND TACTICS
RESERVE OFFICERS' TRAINING CORPS

Senior Infantry and Field Artillery Units.—Students are assigned to the Infantry or Field Artillery courses according to the college or department in which they are first registered, as follows:

<i>Infantry</i>	<i>Field Artillery</i>
College of Agriculture	College of Engineering
College of Commerce and Journalism	College of Pharmacy
School of Architecture	College of Education
College of Arts and Sciences	College of Arts and Sciences
(Pre-medical students)	(A.B. and B.S. students)

The course in Military Science is compulsory for freshmen and sophomores except for students in the College of Law, and for adult special students.

Students who complete the basic course and are selected by the Professor of Military Science and Tactics and the President of the University, may elect the advanced courses. Students electing these courses must carry them to completion as a prerequisite to graduation. Upon their completion, those students recommended by the Professor of Military Science and Tactics and the President of the University will, upon their own application, be offered a commission in the Officers Reserve Corps, United States Army. An advanced course in summer camp is compulsory, usually between the junior and senior years. The War Department pays all expenses, including mileage, rations, medical attendance, clothing, and laundry service, and in addition the pay of the seventh grade, United States Army.

DEGREES

The Board of Control will confer the degree appropriate to the course pursued under the following conditions:

1. *Curriculum requirements.*—Certification by the Registrar of the completion of all requirements of the course of study as outlined in the college announcement, or its equivalent as determined by the faculty of the college offering the course.

2. *Recommendation of the faculty.*

3. *Residence requirements.*—Advanced standing will be allowed on certification from other recognized institutions and may be obtained also by examination held before a committee of the faculty appointed for that purpose provided that the following minimum requirement for residence at the University of Florida has been met.

The student must earn at least one year's credit in residence in this University. If the term of residence is only one year, that year must be the senior year. In addition, special residence requirements must be met in several of the schools and colleges. See individual announcements.

4. *Attendance at commencement.*—All candidates for degrees are required to be present at commencement exercises. A student who fails to attend shall not receive his diploma until he complies with this requirement.

BUREAU OF VOCATIONAL GUIDANCE AND MENTAL HYGIENE

A program of vocational guidance is carried on for the students through a series of tests, through interviews, and through the application of scientific occupational information. In addition, the Bureau offers a service to those encountering mental difficulties which interfere with their scholastic work. Further information concerning these services may be obtained from the *Bulletin of the Bureau of Vocational Guidance and Mental Hygiene*.

HEALTH SERVICE

Through the Student's Health Service the University makes available to any student physical examinations, health consultations, and medical attention. General service is provided free of charge, but special fees are charged for services which are individual in character, such as dentistry, X-rays, board and laundry in the Infirmary, special drugs and serums, major surgery, special nurses, etc. No student, however, will be denied service because of inability to pay these fees.

The University Infirmary and the offices of the Health Service are located on the campus. The services of the Infirmary are available in emergency cases at all hours of the day and night. Physicians are in attendance daily, from 7:30 to 9:00 A.M., from 12:00 to 1:00 P.M., and from 4:00 to 7:00 P.M. Visiting hours are from 4:00 P.M. to 9:00 P.M. daily. The telephone number of the Infirmary is 1000, extension 29.

The facilities of the Dispensary are such that any number of students can be given attention in a day. The normal capacity of the Infirmary is 45 beds. In emergencies, this capacity can be increased. Ample provisions are made for the isolation of communicable diseases.

The Health Service has been established for the purpose of safeguarding the health of students. Its aims are: (1) to help each student entering the University of Florida to possess a healthy, vigorous, active and harmoniously developed body, thereby contributing much to his success while in college and in later life; (2) to reduce to the very minimum the prodigious academic and economic loss due to indisposition and illness of students. Positive health is its goal.

There are three main lines to the activities of the University Health Service: (1) personal attention, (2) sanitation, and (3) education.

1. Personal division.—This division is concerned with the physical examination of students. A complete record of the physical condition of each student is made and filed on admission. From this record can be determined, in a large measure, what procedure is essential to keep the student in the best physical condition during his academic life. The following are some of the phases of the work in the personal division:

a. Provisions for maintaining the health of normal, physically sound students; cooperation with the Department of Physical Education regarding physical exercise; education along lines of right living; safeguarding of environment.

b. Protection of the physically sound students from communicable diseases; early detection and isolation of all cases of communicable diseases—tuberculosis, diphtheria, scarlet fever, measles, typhoid fever, smallpox, mumps, etc.

c. Provision for the care and treatment of such cases of communicable diseases—isolation hospital.

d. Treatment and professional care of all students who are ill or in need of medical advice or treatment. For extended care by the Health Service it is necessary that the student enter the Infirmary. To this Infirmary any student may be admitted upon the recommendation of the University Physician. To all patients in the Infirmary the staff will furnish medical and nursing services.

e. Reconstruction and reclamation: corrections of defects, advice, and treatment of all subnormals.

2. Division of sanitation.—The student's environment should be made as hygienic as possible. Hence, this division concerns itself with the sanitary conditions both on and off the campus.

3. Education.—Every student in the University is made familiar with the fundamentals of both personal and public hygiene. Through personal conferences on this subject, education in hygiene and right living is conducted.

LIBRARY

A new addition to the University Library has been recently completed, greatly improving the library facilities of the University. A separate reading room for the use of reserve books has been opened on the first floor. The stack rooms are equipped with the latest type of steel stacks; an electric book conveyor and a pneumatic tube system simplify the securing of books from the stacks. Individual cubicles for the use of faculty members and graduate students are provided on each floor. A new graduate seminar room has been opened. The seating capacity of the Library is now 750; the stack capacity is 200,000 volumes.

The Library receives 652 magazines of a general and scientific nature. Many daily and weekly state newspapers send complimentary copies to the Library. The files are added to each year, by gift and purchase, with the aim of building up a large research collection.

The General Library contains 67,906 bound volumes. The number of volumes in each of the other libraries on the campus is as follows:

Law Library	10,519
General Extension Division Library.....	7,503
Florida State Museum Library.....	2,321
Agricultural Experiment Station Library.....	11,082
	31,430

The Library strives to be of assistance to the students, encouraging them in their reading and assisting them in obtaining the material they desire.

Bibliographies are prepared, references are found, help is given in the use of the catalog and indexes. For debate work, a special room has been prepared and material assembled. Instructive lectures on the use of the Library are given to the Freshmen during Freshman Week.

The Library is open from 7:45 A.M. to 10:00 P.M. every week day except Saturdays, when it closes at 5:00 P.M. On Sundays it is open from 2:00 to 5:00 P.M.

OFFICE OF THE DEAN OF STUDENTS

The Office of the Dean of Students deals with students' personal problems and with organized student activities. While this office deals mainly with students in organized groups, the problems of the individuals are never neglected. Special attention is given to those students who need help in matters of adjustment to courses, housing conditions, employment, scholarships, delinquent grades, etc. Communications from parents relative to the work of their sons while at the University will be appreciated, and this office will take pleasure in making every effort to secure proper adjustment of the student to his college environment.

FRESHMAN WEEK

During Freshman Week every possible effort is made to orient the incoming freshman. The entire period is given over to activities which will guide him in his selection of the right course of study. For detailed information concerning the activities of Freshman Week, see the *Bulletin of Freshman Week*.

DELINQUENT GRADES

Any student making a grade of below C for the month is required to interview the dean of his college and the Dean of Students.

BUREAU OF PLACEMENTS

The Bureau of Placements, under the direction of the Dean of Students, seeks to assist all graduates in securing positions. Students are urged to avail themselves of the facilities of this Bureau.

SOCIAL ACTIVITIES

The Dean of Students is Chairman of the Committee on Social Activities, which has charge of working out the social calendar of the student organizations.

SELF-HELP

In view of the fact that there are comparatively few positions on the campus and in the city of Gainesville, it is strongly urged that no freshman come to the University with the expectation of depending very largely upon his earnings during his first college year.

The Committee on Self-Help, of which the Assistant Dean of Students is Chairman, undertakes to award positions on the campus to deserving UPPER-CLASSMEN. The following conditions will govern it in making assignments:

- a. The scholastic record of the student will be taken into consideration. No student failing as much as six hours will be considered. No student falling below an average of C will be considered.
- b. Preference will be given to those having experience.
- c. The financial condition of the student will be taken into consideration.
- d. No graduate students will be used except as graduate assistants in positions requiring the training which the student has secured in college.
- e. No student on probation of any kind will be given a position. If, while holding one, he is placed on probation, he will be required to resign the position.
- f. A student may not hold two University positions the combined salaries of which exceed \$100 per year.

Unskilled labor is paid for at the present time at the rate of thirty cents per hour; skilled labor is proportionately compensated. Undergraduate laboratory assistants are paid by the hour according to the following schedule:

Sophomores	\$.35
Juniors .....	.40
Seniors .....	.45

A few students are employed as waiters, as janitors, and in other capacities. Such employment, as a rule, is not given to a student otherwise financially able to attend the University. Application for employment should be made to the Dean of Students.

ADMISSION

NOTICE TO NON-RESIDENT STUDENTS

The University, through its Committee on Admissions, reserves the right to deny admission to students who are not residents of the State of Florida.

METHODS OF ADMISSION

Admission to the schools or colleges of the University which accept students directly from high schools may be obtained:

- (1) By presenting a certificate of graduation from an accredited high school,
- (2) By passing entrance examinations,
- (3) By qualifying as an adult special student, or
- (4) By submitting a certified record of credits from a recognized institution of higher learning.

These methods are described in detail below.

ADMISSION BY CERTIFICATE

GENERAL REQUIREMENTS

The candidate for admission must present a certificate of graduation from an accredited preparatory school (a list of accredited high schools in the State of Florida will be found on pages 155 to 158). Certificates representing examinations given by the College Entrance Board or the New York Regents are likewise accepted. The candidate must offer at least fifteen acceptable units, of which twelve must be academic units (English, mathematics, science, history, and foreign language), including nine required units: 3 in English, 1 in algebra, 1 in plane geometry, 1 in history, 1 in science, and two as specified by the individual colleges. (See pages 151 to 153.)

No condition will be permitted.

LIST OF ENTRANCE UNITS

Below is shown the minimum and maximum number of units in any one subject that will be accepted by the various colleges of the University. The term "unit" means not less than five recitations of forty minutes each week for a school year of thirty-six weeks. In manual subjects and kindred courses it means the equivalent of ten recitation periods a week for thirty-six weeks.

I. English (see Note 4 below):

Composition and rhetoric, two units

American and English literature, two units

II. Foreign language (see Notes 1 and 4 below):

French, two, three, or four units

German, two, three, or four units

Greek, two, three, or four units

Latin, two, three, or four units

Spanish, two, three, or four units

- III. History and social sciences (see Notes 2 and 4 below):
 Ancient history, one unit
 English history, one unit
 Medieval and modern history, one unit
 American history, one-half, or one unit
 Civics, one-half, or one unit
 Sociology, one-half unit
 Economics, one-half unit
- IV. Mathematics (see Notes 2 and 4 below):
 Elementary algebra, one unit
 Plane geometry, one unit
 Advanced algebra, one-half, or one unit
 Solid geometry, one-half unit
 Trigonometry, one-half unit
- V. Natural science (see Notes 2 and 4 below):
 Biology, one unit (see Note 3 below)
 Botany, one-half unit (see Note 3 below)
 Chemistry, one unit
 General science, one unit
 Physical geography, one unit
 Physics, one unit
 Physiology, one-half, or one unit
 Zoology, one-half unit (see Note 3 below)
- VI. Commercial subjects (see Note 2 below):
 Business English, one unit
 Bookkeeping, one-half, or one unit
 Commercial Arithmetic, one-half, or one unit
 Commercial Law, one-half unit
 Commercial Geography, one-half unit
 Shorthand, one-half, or one unit
 Typewriting, one-half unit
 Journalism, one-half, or one unit
- VII. Vocational subjects (see Note 2 below):
 Manual Training, one-half, or one unit
 Drawing, one-half, or one unit
 Others, one, or two units
- VIII. Miscellaneous subjects:
 Bible, one-half, or one unit
 Theory or history of music, one-half, or one unit
 Agriculture, one, two, or three units

Note 1. One unit in a foreign language is never accepted to fulfill entrance requirements.

Note 2. Not over four units will be accepted to fulfill entrance requirements in:

- a. English
- b. History and social science
- c. Mathematics

- d. Natural science
- e. Commercial and vocational subjects.

Note 3. Only one unit will be accepted in biology, zoology, and botany combined.

Note 4. A total of 12 units must be presented from groups I, II, III, IV, and V.

Note 5. A total of 3 units is the maximum number of units allowed from groups VI, VII, and VIII.

REQUIREMENTS OF INDIVIDUAL COLLEGES

In addition to the general requirements for admission by certificate, the individual colleges and schools of the University have certain special requirements, as described below.

COLLEGE OF ARTS AND SCIENCES

For the course leading to the degree of Bachelor of Arts, the candidate must present two units in Latin. However, if a candidate presents two units in some other foreign language he may be admitted, but he must then fulfill the Latin requirement by obtaining twelve credits in Latin in the University. These credits will apply toward his degree.

For the course leading to the degree of Bachelor of Science, or the Pre-Medical or the Pre-Dental Course, two units in one foreign language will be required, unless the candidate presents a total of four units from groups III and V as listed on page 150.

COLLEGE OF COMMERCE AND JOURNALISM

For admission to the College of Commerce and Journalism, the candidate must present two units of one foreign language.

SCHOOL OF ARCHITECTURE AND ALLIED ARTS

For the course leading to the degree of Bachelor of Science in Architecture, the candidate must present two units in one foreign language, one-half unit in advanced algebra, one-half unit in solid geometry, and one-half unit in trigonometry. In case the candidate cannot present two units in a foreign language, he may be admitted if he presents a total of four units from groups III and V as listed on page 150.

In special cases, a student may be registered for the freshman year with a condition in not more than two of the one-half units of additional mathematics. He will not be registered for the sophomore year until all entrance conditions have been removed and credit has been obtained in freshman mathematics (Ms. 101-102).

COLLEGE OF AGRICULTURE

For the courses leading to the degree of Bachelor of Science in Agriculture and the degree of Bachelor of Science in Landscape Design, the candidate must present two units in one foreign language. However, the candidate may be admitted in case he presents a total of four units from groups III and V as listed on page 150.

Short courses in agriculture.—The candidate may be admitted to either the four-month or the one-year course in agriculture without the required high school entrance units.

COLLEGE OF EDUCATION

For admission to the College of Education, the candidate must present two units in one foreign language. However, this requirement may be waived in case the candidate presents a total of four units from groups III and V as listed on page 150.

Teacher's Certificates.—Teacher's certificates obtained by special examinations given by the State Department of Education entitle the holder to entrance credit by examination.

The First Grade Certificate.—The first grade certificate entitles the holder to entrance credit by examination as follows: rhetoric and composition, two units; ancient history, one unit; medieval and modern history, one unit; psychology, one unit; biology, one unit (only if it appears on certificate); civics, one-half unit; algebra, two units; agriculture, one-half unit—total, nine units.

The Second Grade Certificate.—The second grade certificate entitles the holder to entrance credit by examination as follows: composition, one unit; civics, one-half unit; agriculture, one-half unit—total, two units.

The Primary Certificate.—The primary certificate entitles the holder to entrance credit by examination as follows: United States history, one half unit; psychology, one unit; manual arts, one unit; nature-study, one unit; drawing, one unit; composition, one unit; public school music, one-half unit—total, six units.

Special Certificates.—Special certificates will be considered on their merits.

COLLEGE OF ENGINEERING

For admission to the College of Engineering, the candidate must present one unit in advanced algebra, one-half unit in solid geometry, and one-half unit in trigonometry.

Qualifying examinations.—Qualifying examinations are given all candidates for admission to freshman engineering classes. These are in the nature of intelligence tests. Pending the provision of enlarged facilities for instruction, the right is reserved to limit the number of freshmen admitted to the College of Engineering to such number as can be properly accommodated with the present facilities. This qualifying examination must be passed before a student will be registered in this course. Students having successfully completed a year's course in another college will be exempt from this examination.

COLLEGE OF LAW

Applicants for admission to the College of Law as candidates for degrees must be eighteen years of age and must present, in addition to satisfactory college entrance credits, the completion of one-half of the work acceptable for a bachelor's degree on the basis of a four-year period of study at this University. Evidence of this work must be presented to the Registrar of the University on or before the date on which the candidate wishes to register.

The College requires a C average on credits offered for admission, and the credits must meet the requirements of the Association of American Law Schools.

No specific course of studies is prescribed for the college work required for admission. The combined academic and law courses offered in the College of Arts and Sciences, and in the College of Commerce and Journalism, are recommended.

NOTICE.—Effective September 1, 1933, to be admitted to the College of Law the applicant must:

(1) Have received a degree in arts or science in a college or university of approved standing; or

(2) Have fully satisfied the academic requirements for a degree in a combined course in the University of Florida.

Women Students.—Women students who are twenty-one years of age and who fully meet the entrance requirements of the College may enter as candidates for degrees.

Special Students.—Special students are not admitted to the College.

Advanced Standing.—No work in law done in other institutions will be accepted towards a degree unless the applicant passes satisfactorily the examinations held in the subjects in question in this College, or unless credit is given without examination. Credit of an average of C from schools which are members of the Association of American Law Schools, of which this College is a member, will be accepted without examination. In no case will credit be given for work not done in residence at an approved law school.

COLLEGE OF PHARMACY

For admission to the College of Pharmacy, the candidate must present two units in one foreign language. However, this requirement will be waived in case the applicant presents a total of four units from groups III and V as listed on page 150.

ADMISSION BY EXAMINATION

Non-graduates of accredited or non-accredited high schools who present at least fifteen acceptable units including the nine required units listed on page 149, may be admitted provided they successfully pass entrance examinations in the following subjects:

English—Rhetoric and composition; American and English literature

Mathematics—First year algebra, plane geometry

History—one unit

Science—one unit

A college aptitude test will ordinarily be given in lieu of the above examinations.

Entrance examinations will be given on the dates published in the University Calendar. Students failing to take the examinations on these dates will be required to pay a special examination fee of \$5.

ADULT SPECIAL STUDENTS

Applicants for admission who are at least twenty-one years of age and who wish to pursue a special and limited course of study may enter the University without meeting the aforementioned entrance requirements. They must, however, secure the approval of the dean of the college concerned for the work they wish to pursue.

Adult special students are subject to all regulations of the University except the entrance requirements.

ADMISSION TO ADVANCED STANDING

This University accepts credits toward advanced standing from all reputable colleges and universities. Such credits are accepted as far as they represent courses equivalent to those offered in this institution, if the grades are sufficiently high to meet the quality credit requirement. The certified record of courses taken in other institutions must be upon the official blank of the institution granting the certificate and should show:

- a. The subject studied, the catalog course number, and the descriptive title.
- b. The number of weeks and hours a week spent upon each subject.
- c. The value of the course expressed in credits.
- d. The exact grades, accompanied by an explanation of the marking system employed.
- e. A list of the preparatory units presented upon entrance.
- f. A letter or statement of honorable dismissal.

Applications for advanced standing should be made, if possible, at least one month before the student expects to enter the University.

Upon the University's receipt of a transcript of credit, the candidate will be mailed an application for admission. When this is returned, properly filled out, the Registrar will present the applicant with a certificate of admission, giving the applicant's classification and directions for registration.

All statements concerning advanced standing and classification are provisional, subject to the satisfactory completion of one year's work at the University by the applicant.

Students who, because of failure in studies, are not allowed to return to the institution they last attended, or who failed in half of their work during the last period they attended that institution, will be denied admission to the University of Florida.

The following institutions in the State of Florida are fully accredited institutions because of their membership in the Southern Association of Secondary Schools and Colleges:

- The Florida State College for Women, Tallahassee
- Rollins College, Winter Park
- St. Petersburg Junior College, St. Petersburg

Upon the request of the following institutions their work in arts and sciences and teacher training was inspected by the University and accredited for the year 1930-31:

- Miami University, Coral Gables
- Southern College, Lakeland
- Bob Jones College (Junior College), College Point

REGISTRATION

All Florida high schools are furnished with preparatory record blanks. Students who are not residents of the State of Florida should write to the Registrar requesting a Preparatory Record Blank. This will be sent promptly, and should be presented to the principal of the high school last attended, with instructions that it be mailed directly to

The Registrar
University of Florida
Gainesville, Florida.

Upon receipt of the credentials at the University, the candidate will be sent an application blank. When this is returned, the applicant will be sent an admission certificate containing directions for registration.

A preparatory record will not be accepted unless it comes directly from the principal to the Registrar.

A student will not be allowed to register until his credits have been received and accepted.

Recommendation.—Prospective candidates for admission who are deficient in the specific entrance requirements required by the individual colleges (see pages 151 to 153) are advised to make up the deficiency prior to registration by attending the Summer Session, by correspondence-study, or otherwise. See the *Bulletin of the Summer Session* or the *Correspondence-Study Bulletin* of the General Extension Division.

VACCINATION

Prospective students are advised to be vaccinated against smallpox and to be inoculated against typhoid fever. Unless a certificate is presented showing successful vaccination within five years, students will be vaccinated after registration.

LIST OF ACCREDITED PREPARATORY SCHOOLS

Graduates of the following Florida High Schools will be admitted to the University of Florida provided their credentials satisfy the requirements as heretofore specified. These schools are listed according to their locations.

Altha	Barberville Central High School
*Alva	*Bartow, Summerlin Institute
Anthony	Bell
Apalachicola, Chapman High School	*Blountstown, Calhoun County High School
*Apopka	
*Arcadia, DeSoto County High School	Bonifay, Holmes County High School
Archer	*Boynton
*Auburndale	*Bradenton
Aucilla	*Brandon
*Avon Park	Branford
Baker	Brewster

*Accredited also by Association of Colleges and Secondary Schools of the Southern States.

Bristol, Liberty County High School	*Eustis
*Brooksville, Hernando County High School	*Everglades Fellowship
Bunnell	*Fernandina
*Bushnell	*Ft. Lauderdale, Central High School
Campbellton	*Fort Meade
Canal Point (see Pahokee)	*Fort Myers, Senior High School
Carrabelle	*Fort Pierce
Cedar Key	Fort White
Century	Frostproof
Chattahoochee	*Gainesville
Chiefland	*Gonzalez, Tate Agricultural High School
*Chipley, Washington County High School	Graceville
Crystal River	*Green Cove Springs, Clay County High School
*Clearwater, Central High School	Greensboro
*Clermont, Clermont-Minneola High School	Greenville
*Cocoa	Greenwood
College Point, Bob Jones College High School	*Groveland
*Coral Gables, Miami Military Academy	*Haines City
*Coral Gables, Ponce de Leon High School	*Haines City, Florida Military Institute
Cottondale	*Hastings
*Crescent City	Havana
Crestview	Hawthorne
*Cross City, Dixie County High School	High Springs
Dade City, Pasco County High School	*Homestead
Dady, Leonia High School	*Homestead, Redland High School
*Dania	Inverness, Citrus County High School
*Daytona Beach, Daytona High School	*Jacksonville, Andrew Jackson High School
*Daytona Beach, Seabreeze High School	*Jacksonville, Florida Military Academy (private)
*DeFuniak Springs, Palmer College Academy	*Jacksonville, Landon Junior-Senior High School
*DeFuniak Springs, Walton County High School	*Jacksonville, Robert E. Lee High School
*DeLand	*Jacksonville, Saint Paul's High School
*Delray Beach	Jasper
*Dunnellon	Jay
*Eau Gallie	Jupiter
	Key West, Convent of Mary Immaculate High School

*Accredited also by Association of Colleges and Secondary Schools of the Southern States.

- *Key West
 *Kissimmee, Osceola County High School
 *La Belle
 Lake Butler, Union County High School
 *Lake City, Columbia High School
 Lake Placid
 *Lake Wales
 *Lake Worth
 *Lakeland
 *Largo
 *Leesburg
 *Live Oak, Suwannee County High School
 Longwood, Lyman High School
 Lynne, East Marion High School
 Macclenny
 Madison
 Malone
 *Marianna, Jackson County High School
 Mayo, Lafayette County High School
 *Melbourne
 *Melrose
 *Miami, Edison Senior High School
 Miami, Gesu High School (private)
 Miami, Miami Military Academy (private)
 *Miami, Senior High School
 *Miami Beach, Ida M. Fisher High School
 Micanopy
 *Milton, Santa Rosa County High School
 *Montverde, Montverde School (private)
 Monticello
 Moore Haven
 *Mount Dora
 Mount Pleasant
 *Mulberry
 Munson
 Naples
 *New Smyrna
 *New Port Richey, Gulf County High School
 Newberry
 Niceville
 *Ocala
 *Ocoee
 *Okeechobee
 *Orlando, The Cathedral School
 *Orlando, Senior High School
 Oviedo
 Pahokee, Pahokee-Canal Point High School
 *Palatka, Putnam County High School
 *Palmetto
 *Panama City, Bay County High School
 Penney Farms
 *Pensacola
 *Pensacola—St. Michaels High School (private)
 *Perry, Taylor County High School
 Pierson
 *Plant City
 *Pompano
 Ponce de Leon
 Port St. Joe
 *Punta Gorda
 *Quincy, Gadsden County High School
 Reddick
 *St. Augustine, Ketterlinus High School
 *St. Augustine, St. Joseph's Academy (private)
 *St. Cloud
 *St. Leo, St. Leo Academy (private)
 *St. Peter-burg, Senior High School
 Sanderson
 *Sanford, Seminole High School
 *Sarasota
 *Sebring
 Seville
 Sopchoppy
 Starke, Bradford County High School
 *Stuart

*Accredited also by Association of Colleges and Secondary Schools of the Southern States.

Summerfield	Walnut Hill, Ernest Ward High School
*Tallahassee, Florida High School	
*Tallahassee, Leon County High School	*Wauchula
*Tampa, Convent of the Holy Names (private)	*West Palm Beach, Palm Beach Senior High School
*Tampa, H. B. Plant High School	*West Palm Beach, St. Ann's High School
*Tampa, Hillsborough High School	Wewahitchka
*Tampa, Tampa College High School (private)	*Wildwood
*Tarpon Springs	Williston
*Tavares	*Wimauma
*Titusville	*Winter Garden, Oakland-Winter Garden High School
Trenton	*Winter Haven
*Umatilla	*Winter Park
*Vero Beach	Zephyrhills

*Accredited also by Association of Colleges and Secondary Schools of the Southern States.

High School Visitation.—Through the Professor of Secondary Education, the University strives to keep in close touch with the high schools of the state. Part of his time is taken up with visiting the high schools and lending such aid and encouragement as will be productive of stronger high schools and a closer connection between them and the University.

EXPENSES

TUITION FEES

College of Law.—In the College of Law the tuition fees are \$40 per year, or \$20 per semester, payable in advance.

Non-resident Fee.—The non-resident tuition fee is \$100 per year or \$50 per semester, payable in advance. This fee is charged all non-resident students, including those pursuing graduate work. No person is eligible to register in the University as a resident of the State of Florida unless he has been a bona fide resident of the state during the twelve months immediately preceding the date of his registration. The residence of a minor shall follow that of his legal guardian.

College of Commerce and Journalism.—A special fee of \$10 per year, payable in advance, is charged all students regularly enrolled in this college. One dollar per semester-hour is charged other students who elect the following courses: all courses in Journalism and all courses in Business Administration not marked "E."

DEPOSIT FEES

A room reservation fee of \$10 is charged for dormitory space. This fee is retained as a deposit against damage until the student gives up his room, when refund, on return of key and less any charge for damage incurred during his residence there, is made.

SPECIAL FEES

Registration and Contingent Fee.—This fee of \$7.50 per year is charged all students, including those regularly enrolled in the graduate school.

Student Activity Fee.—A fee of \$21.10, payable on entrance, was voted by the students and approved by the Board of Control. These fees are used to foster and maintain athletic sports, student publications, literary and debating societies, and other student activities. All students are required to pay this fee; except that students regularly enrolled in the Graduate School may be excused if they do not wish to participate in any of the student privileges covered by this fee.

Military Fee.—A fee of \$2 is charged all first and second-year men registered for military science to protect against loss of government ordnance.

Uniforms will be issued without cost to the student except shoes and cotton shirts. All students who are taking military training must have one pair of regulation army shoes and one cotton shirt at all times and in good condition. Shoes and cotton shirts will be supplied by the University at cost. At the end of a year or sooner, if the student drops out, all property except cotton shirts and shoes must be returned to the supply room. Any willful damage to the uniform or equipment must be paid for by the individual student.

Locker Fee.—A fee of \$2.50 is charged all students for use of lockers and supplies furnished in the gymnasium and swimming pool.

Infirmary Fee.—All students are charged an infirmary fee of \$9 per year. This secures for the student in case of illness the privilege of a bed in the Infirmary and the services of the University Physician and professionally trained nurses, except in cases involving major operation. A student requiring an emergency major operation, which is not covered by the fee assessed, may employ the services of such accredited physician as he may select, and utilize the facilities of the Infirmary for said operation. To secure this medical service, the students must report in person to the nurse in charge of the Infirmary. A fee of \$5 is charged for the use of the operating room. Board in the Infirmary is charged at the rate of \$1 a day. All students will be given a careful physical examination at the beginning of the sessions. Graduate students, not married, and living in the dormitories or rooming houses, are required to pay this fee.

The total of Special Fees, as listed above, including Military Fee for freshmen and sophomores, is \$42.10; or for juniors and seniors, \$40.10.

Laboratory Fees.—A small fee is required in advance for each course that includes laboratory work, to cover cost of consumable material, wear and tear of apparatus, and similar items. The amount of the fee varies with the different courses, in no case exceeding \$5 per semester for any one course.

Breakage Fees.—A fee of \$5 will be required for each student using a locker and laboratory apparatus in the Departments of Chemistry, Pharmacy, Biology, and Electrical Engineering; this fee is \$3.00 in the Department of Physics. This deposit will be made with the Cashier in the Business Manager's Office, and refund will be made on it once a year, when the student has checked in his apparatus to the satisfaction of the department concerned. No charge will be made from this fee for materials used, or for normal wear and tear, as this is covered in the General Laboratory Fee.

Diploma Fee.—A fee of \$5 is charged all candidates for degrees.

PENALTIES

Late Registration Fee.—A fee of \$5 is charged all students who do not complete their registration on the dates set by the University Council and published in the Calendar. Registration is not complete until all University bills are paid, and any who fail to meet their obligations are not regarded as students of the University.

Non-Resident.—A fee of \$10 in addition to the regular non-residence fee will be charged all students registering incorrectly. The burden of proof as to residence is with the student.

Library Fines.—A fine of 2 cents a day is charged for each book in general circulation that is not returned within the limit of two weeks. "Reserve" books may be checked out overnight, and if they are not returned on time the fine is 5 cents an hour or fraction of an hour until they are returned. No book may be checked out if the fine is over 25 cents.

REFUNDS

No refund of any fees, except unused portions of laboratory and breakage fees, will be made after the student has attended classes for three days. The Registration and Contingent Fee of \$7.50 is not refundable.

The Room Reservation Fee.—The room reservation fee, less any damage charges against the student, and on return of key, is refunded when the student gives up his room. If he accepts assignment, he is required to stay at least a semester.

Students graduating at the close of the first semester, and having paid all fees, will be refunded \$13 of the matriculation fees unless a copy of the *Seminole* is requested, in which case only \$9 will be refunded.

Remittance.—All remittances should be made to the Business Manager, University of Florida, Gainesville, Florida.

LIVING EXPENSES

DORMITORIES

The University operates three dormitories, New Dormitory, Thomas Hall, and Buckman Hall, accommodating altogether about five hundred students. Except in case of special reasons, it is recommended that freshmen room in one of the dormitories for at least the first semester. Accordingly, preference is given to freshmen applying for rooms in these dormitories.

Although rooms in the dormitories are partially furnished, students are required to provide their own bedding, towels, and toilet articles. Janitor service, provided in all dormitories, includes the care of rooms by maids under the supervision of a competent housekeeper. The conduct of the students in the dormitories is entirely in the hands of monitors, appointed by the Dean of Students. Reasonable regulations as to noise, care of property, and respect for the rights of other individuals are insisted upon. The President of the Student Body is given a room in one of the dormitories, and is made head monitor. All questions of government come from the monitors, through him, to the Dean of Students.

New Dormitory.—The New Dormitory is of strictly fireproof construction. Rooms are arranged in suites, consisting of study and bedroom, and accommodating two students. A limited number of single rooms and several suites accommodating three students are available. All rooms are equipped with lavatories and built-in chifforobes, with adjacent bathrooms containing lavatories and hot and cold showers. They are furnished with two bedsteads and mattresses, study tables, and chairs. Additional easy chairs may be secured at rental charge of \$1.00 per semester. Rates are as follows:

Single rooms, 1st, 2nd, and 3rd floors	\$14 per student per semester
Single rooms, 4th floor	\$10 per student per semester
Two-room suites, 1st, 2nd, and 3rd floors	\$19 per student per semester
Two-room suites, 4th floor	\$36 per student per semester
Three-room suites, 1st, 2nd, and 3rd floors	\$36 per student per semester

Thomas Hall.—Sections D and E of Thomas Hall have been remodeled throughout. Both single and double rooms are available. All rooms in Section E and the single rooms in Section D are equipped with lavatories.

The rooms in other sections are arranged in suites, consisting of study and bedroom, accommodating three students. A number of rooms accommodating four students and a few single rooms are available.

Baths, with lavatories and hot and cold showers, are located on each floor of each section, thus providing a bathroom for each four rooms. Rooms are furnished with beds, chifforobes, study tables, and chairs.

Rates are as follows:

Single rooms, Sections D and E.....	\$40.00 per student per semester
Double rooms, Section E.....	36.00 per student per semester
Double rooms, Section D.....	34.00 per student per semester
All other rooms.....	24.50 per student per semester

Buckman Hall.—Rooms in Buckman Hall are arranged in suites, consisting of study and bedroom, and accommodating three students. A number of suites accommodating four students are available. Baths, with lavatories and hot and cold showers, are located on each floor of each section, thus providing bathroom facilities for each four suites. Rooms are furnished with beds, chifforobes, study tables, and chairs.

All rooms in Buckman Hall are rented at \$24.50 per student per semester.

Applications.—Applications should be made as early as possible, since accommodation in the dormitories is limited to five hundred students. Application must be accompanied by the Room Reservation Fee of \$10. If a room has been assigned, no refund will be made later than September 10. Students not assigned a room will be entitled to a refund upon request. Students contracting for rooms when assigned will not be permitted a refund if they withdraw from the dormitories during the semester. Contracts for rooms in the dormitories are for one semester, and in the absence of exceedingly important reasons no student will be given permission to vacate a room during this time unless he places some one in his room from off campus, in which case he may transfer his contract. Keys for dormitory rooms will be issued students against the room reservation fee.

ROOMING HOUSES

Board and rooms in private homes of Gainesville may be procured at rates of \$35 to \$45 per student per month, depending upon the accommodations and the proximity to the campus. A large number of rooming houses, as well as cafeterias, lunch rooms, and dining rooms are located within easy walking distance, and students may secure any class of accommodations they desire. The office of the Dean of Students maintains a complete list of boarding and rooming houses near the campus and in the city. These houses are inspected periodically, and information concerning them can be had at any time.

Students will be assisted in securing comfortable living quarters by the Assistant Dean of Students. For further information, address the Dean of Students.

CAFETERIA

The University operates a modern cafeteria, offering a wide selection of wholesome foods. Meal tickets may be secured at the Business Office, payable in advance, as follows:

Three-meal-per-day tickets for 4 weeks.....	\$18.00
Two-meal-per-day tickets for 4 weeks.....	15.00
Three-meal-per-day weekly tickets.....	4.75

Meals may be paid for in cash at the following rates:

Breakfast	\$.25
Dinner .....	.30
Supper .....	.25

Dormitory students are expected to board at the Cafeteria. Those who state their intention to do so will be given preference in assigning rooms.

FEES FOR THE SECOND SEMESTER

Students who register for the first time in the academic year at the beginning of the second semester are subject to the following fees:

Registration and Contingent Fee.....	\$ 7.50
Athletic Fee	6.00
Student Activity Fee	8.50
Infirmary Fee	4.50
Locker Fee	1.50

Total	\$28 00
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Special fee for the College of Commerce and Journalism— for second semester only	\$ 7.00
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None of the above fees are required of students who paid fees for the whole year at the beginning of the first semester.

SUMMARY OF EXPENSES

The annual necessary expenses of the average Florida student are estimated as follows:

Tuition	\$ 00.00
Registration, Student Activity and other fees.....	42.10
Laboratory Fees and books	50.00
Board and lodging in dormitory	227.00
Laundry	18 00

Total	\$337.10
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Law students should add \$10 to this amount for tuition.

All students who are not permanent legal residents of Florida should add \$100 to this amount to cover Non-resident Tuition.

Cost of clothing, recreation, travel, and other incidentals are subject to the wishes of the individual.

The laboratory, breakage, and instrument fees for the several courses for freshmen are approximately as follows:

College of Agriculture	\$ 26.00
School of Architecture and Allied Arts.....	41.00
College of Arts and Sciences—	
A.B. course	0.00
B.S. course	15.00
Pre-medical course	30.00
College of Commerce and Journalism.....	10.00
College of Engineering	31.00
Law (tuition and books)	100.00
College of Pharmacy	40.00
College of Education—	
A.B.E.	0.00
B.S.E.	15.00

In all cases \$25 should be the minimum amount budgeted for books.

SCHOLARSHIPS, LOANS, PRIZES, AND MEDALS
LIST OF FELLOWSHIPS, GRADUATE ASSISTANTSHIPS, AND
SCHOLARSHIPS

With the Annual Stipend

Applications for these fellowships must be made before March 15. Blank applications can be obtained from the Dean of the Graduate School, or the Heads of the Departments.

Agriculture—

Agricultural Economics—

Graduate Assistant in Marketing.....\$ 600

Graduate Assistant in Farm Management..... 600

Agricultural Engineering—Graduate Assistant 600

Agronomy—Graduate Assistant 600

Animal Husbandry—Graduate Assistant 600

Entomology and Plant Pathology—Graduate Assistant..... 600

Horticulture—Graduate Assistant 600

(Agricultural Chemistry is included in Chemistry)

Architecture and Allied Arts:

Fellowship 500

Biology and Geology—

Two Graduate Assistants at \$500 each..... 1000

Business Administration and Economics:

Two Graduate Assistants at \$450 each..... 900

Two Research Assistants at \$400 each..... 800

Chemistry—

Six Graduate Assistants at \$500 each..... 3000

Engineering—

Civil Engineering—One Graduate Assistant 500

Mechanical Engineering—One Graduate Assistant..... 500

(Chemical Engineering is included in Chemistry)

Pharmacognosy and Pharmacology:

Two Graduate Assistants at \$500 each..... 1000

Pharmacy—

Two Graduate Assistants at \$500 each..... 1000

Psychology:

One Graduate Assistant 400

Physics—

Four Graduate Assistants at \$400 each..... 1600

Sociology:

One Graduate Assistant, second semester 200

General:

Fifteen Graduate Scholarships at \$250..... 3750

(These scholarships may be in any department that offers major work for a Master's degree.)

SCHOLARSHIPS AND LOAN FUNDS

The University of Florida is peculiarly fortunate in the number of scholarships and loans which are open to students. Generally, these scholarships and loans are administered directly by the donors. However, the Committee on Scholarships, of which the Dean of Students is chairman, collects all information relative to vacancies, basis of award, value, and other pertinent facts and supplies this information to interested students. The Committee also collects information on applicants and supplies this information to the donors. In some instances, the Committee has been given authority to make the awards without consulting the donors.

While scholarship, as evidenced by scholastic attainment, is an important feature in making awards, it is by no means the only thing taken into consideration. The student's potential capacity to profit by college training and to make reasonable returns to society is a large factor in making all awards.

Inquiries relative to scholarships and loans should be addressed to the Dean of Students, University of Florida, Gainesville.

Senatorial and Teachers Scholarships.—The Legislature has provided that every senatorial district of the State shall be allowed annually one scholarship for men at the University of Florida; and that every county of the State shall be allowed as many scholarships in the College of Education of the University of Florida as that county has representatives in the House of Representatives. These latter scholarships shall be awarded only to such residents of the several counties as intend to make teaching in this state their occupation. The scholarships are awarded after a competitive examination, taken pursuant to the provisions of the act and to appropriate rules and regulations prescribed by the State Board of Education. Scholarships from senatorial districts are designated as Senatorial State Scholarships, and are awarded after a competitive examination. The holder may register for any of the regular courses at the University of Florida and is not required to teach after graduation. The value of these scholarships is \$200 per year.

Students desiring to take these competitive examinations should communicate with the State Superintendent of Public Instruction, Tallahassee, Florida.

County Agricultural Scholarships.—Provision has been made by a legislative act for a scholarship from each county—these to be offered and provided for at the discretion of the Board of County Commissioners of each county. The recipient is to be selected by competitive examination. The value of each scholarship is a sum sufficient to pay for board in the dining hall and room in the dormitory. Whether such a scholarship has been provided for by any county may be learned from the Clerk of the Board of County Commissioners, or the County Agent of the county in question. Questions for the examination are provided and papers graded by the University if desired.

Vocational Rehabilitation Scholarships.—The Department of Vocational Rehabilitation is willing to aid any citizen of Florida who can give evidence of being prepared to enter college, and who gives promise of being a successful student, provided that he has sustained, by reason of physical impairment, a vocational handicap; and provided the course which he selects can be reasonably expected to fit him to earn a livelihood. The sum spent on recipients

of this fund at the University of Florida during the present year will amount to approximately one hundred dollars per student. Inquiries for these scholarships should be addressed to Mr. Claude M. Andrews, State Supervisor of Vocational Rehabilitation, Tallahassee, Florida.

Rotary Loan Fund.—The Rotarians of Florida have set aside a considerable sum of money to be used in making loans to worthy boys who would not otherwise be able to attend college. Applications for these loans should be made to the President of the Rotary Club of the city from which the prospective student registers, or to Mr. J. C. Chace, President, Winter Park, Florida, before September 1st.

Knights Templar Scholarship Loans.—The Grand Lodge of Knights Templar in the State of Florida has arranged a number of loans, in amounts of \$200 to each student, for students pursuing a course at the University of Florida. These loans are made available through application to the Knights Templar Lodge in the various cities in the state, and are handled by the Grand Lodge officers. Approximately thirty students receive aid from these scholarships each year.

Knights of Pythias.—Eight scholarship loans have been established by the Grand Lodge of the Knights of Pythias. Applications for these loans should be made to Dr. J. H. Coffee, Arcadia, Florida.

United Daughters of the Confederacy Scholarships. — Scholarships have been established by various chapters of the Florida Division, United Daughters of the Confederacy. Applications should be made to Mrs. J. C. Blocker, Chairman of Education, 600 Fourth Street, North, St. Petersburg, Florida.

Loring Memorial Scholarship.—A scholarship of approximately \$250 per year is maintained by Mrs. William Loring Spencer in memory of her distinguished uncle, General Loring.

Duval High Memorial Scholarship.—An act creating the Memorial Duval High School Scholarship and authorizing and appropriating annually \$275 of the Duval County funds as financial assistance for one worthy high school graduate is covered by House Bill No. 823, and was approved May 20, 1927.

This scholarship, created to memorialize and assist in preserving the high standards and traditions of the Duval High School, where many of Florida's worthy citizens were educated, was established by the Board of County Commissioners of Duval County, Florida.

J. B. Dell, Jr. Memorial Scholarship.—Established by Mrs. J. B. Dell, of Gainesville, Florida, in memory of her son, James B. Dell, Jr., and awarded to a worthy student. Value, \$250.

Knight and Wall Scholarship.—Established and maintained by the Knight & Wall Company, of Tampa. Value, \$245. For full particulars, address the Superintendent of Public Instruction, Hillsboro County, Tampa, Florida.

Jacksonville Rotary Club Scholarship.—The Jacksonville Rotary Club maintains a scholarship of \$250, which is given, at their discretion, to a student meeting such requirements as they may make pertaining to the scholarship.

Arthur Ellis Ham Memorial Scholarship.—Established in 1919 by Mrs. Elizabeth C. Ham, in accordance with the last will and in memory of her husband, Captain Arthur Ellis Ham, a former student of the University, who fell

in battle at St. Mihiel, France, on September 14, 1918. Value, the income from a fund of \$5000.

Albert W. Gilchrist Memorial Scholarship.—This scholarship is open to students of the junior and senior classes. Two of these awards are made annually, each one being worth \$200 per year. Scholastic achievement is the principal basis of this award.

David Levy Yulee Memorial Scholarship.—This scholarship is awarded annually on the basis of scholarship, and is open to the members of the sophomore, junior, and senior classes. Value, about \$200.

William Wilson Finley Foundation.—As a memorial to the late President Finley, and in recognition of his interest in agricultural education, The Southern Railway Company has donated to the University of Florida the sum of \$1000, to be used as a loan fund. No loan from this fund to an individual is to exceed \$150 per year. Recipients are selected by the Dean of the College of Agriculture, to whom applications should be directed.

Florida Bankers Association Scholarship.—The Florida Bankers Association awards three scholarships annually; one for North and West Florida, one for Central Florida, and one for South Florida. These scholarships are awarded on an examination given at the Annual Boys' Short Course. The examination is given and the award made by the State Boys' Club Agent.

Application for these scholarships should be made to the Dean of the College of Agriculture.

Frank E. Dennis Scholarship.—Established by Frank E. Dennis, of Jacksonville, and awarded to the club member showing the best pig-club pig at the State Pig Club exhibit. One scholarship is awarded annually; value, \$250.

Application should be made to the Dean of the College of Agriculture.

Congressman Yon Scholarship.—Awarded to the 4-H Club boy living in the Third Congressional District, who has been outstanding in leadership in club work. Awarded annually; value, \$100.

Application should be made to the Dean, College of Agriculture.

John B. Sutton Scholarship.—Established and maintained by a loyal alumnus and former member of the Board of Control, Mr. John B. Sutton, LL.B., 1914, of Tampa, Florida. Value, \$250.

The Thomas Company Scholarship Loan.—The Thomas Company, of Gainesville, Florida, maintains a loan fund of \$250 per year. This loan is made annually to a worthy student upon recommendation of the donor.

The American Bankers Association Foundation.—One loan scholarship to a student at the University of Florida whose major course is in banking, economics, or related subjects in classes of junior grade or above. Value, \$250.

Application for loan should be made to the Chairman of the Committee on Awards, 110 E. 42nd Street, New York City.

Murphree Engineering Loan Fund.—On September 16, 1929, a friend of our late President, Dr. A. A. Murphree, gave to the Engineering College \$500, to be used as a revolving loan fund. This fund was to be used in cases of emergency when, on account of financial difficulties, worthy students would

be kept from graduating unless they could receive some assistance. Only in special cases are these loans made to members of the junior class.

Applications for loans from this fund should be made to the Dean of the College of Engineering, University of Florida.

The Donald Roebling Scholarship.—This scholarship is established and maintained by Mr. Donald Roebling of Clearwater, Florida. It is awarded annually to a student from Pinellas County upon recommendation of the donor.

Florida Power Corporation.—This scholarship is awarded annually upon the recommendation of the donor.

The Florida Portland Cement Company.—This scholarship is awarded annually upon the recommendation of the donor.

The Tampa Electric Company Scholarship.—This scholarship is awarded annually upon the recommendation of the donor.

Hava-Tampa Scholarship.—This scholarship is awarded annually upon recommendation of the donor.

The Leon Cheek Scholarship.—This scholarship is established and maintained by Mr. Leon Cheek of Jacksonville, Florida. It is awarded annually upon recommendation of the donor.

The Fred Francis Scholarships.—These scholarships are awarded annually upon recommendation of the donor.

The Brooks-Scanlon Scholarship.—This scholarship is awarded annually upon the recommendation of the donor.

The Thad Buckner Scholarship.—This scholarship is awarded annually to a Jacksonville student upon the recommendation of the donor.

The Joe Gill Scholarship.—Mr. Gill is President of the Florida Power and Light Company. This scholarship is awarded annually upon recommendation of the donor.

The Order of Ahepa Scholarship.—No information is now available concerning this scholarship.

Florida Association of Architects Loan Fund.—The Florida Association of Architects has created a revolving loan fund of \$500 for the purpose of aiding needy students in Architecture who have proved themselves worthy.

Applications should be made to the Director of the School of Architecture and Allied Arts.

The Colonial Dames of America, Betty Wollman Scholarship.—Established by Mr. William J. Wollman in memory of his mother and awarded to a worthy student. Value, \$250.

The National Society of The Colonial Dames of America in the State of Florida.—The National Society of The Colonial Dames of America in the State of Florida has established a loan scholarship for deserving students. This scholarship is administered by the Directors of the Florida Educational Loan Association.

Lake Worth Woman's Club Scholarship.—The Lake Worth Woman's club, of Lake Worth, Florida, maintains a scholarship of \$100 a year.

The Charles Irvin Travelli Fund.—The Charles Irvin Travelli Fund maintains a loan scholarship of \$200 a year.

Woman's Auxiliary, Disabled Veterans of the World War Loan Fund.—

The Woman's Auxiliary, Disabled Veterans of the World War, has established a loan fund which amounted to \$150 for 1931-1932. Inquiries concerning this fund should be addressed to Mrs. F. W. Lambertson, P.O. Box 265, University Station, Gainesville, Florida.

PRIZES AND MEDALS

Alpha Zeta Freshman Scholarship Medal.—Each year the Florida Chapter of Alpha Zeta awards a gold key to the sophomore in Agriculture who, in the opinion of the chapter, was the most outstanding in scholarship, leadership, personality, and general endeavor during his freshman year in the College of Agriculture. The key bears the Alpha Zeta crest, the name of the winner, the year in which his work was done, and the purpose for which it is awarded. The key is presented with the object of promoting interest in scholarship and leadership among the freshmen of the College of Agriculture.

Board of Control Awards.—The Board of Control annually awards the following medals:

1. The Freshman-Sophomore Declamation Contest Medal, to the best declaimer of the Freshman and Sophomore classes.
2. Junior Oratorical Contest Medal, to the best declaimer of the Junior Class.
3. Senior Oratorical Contest Medal, to the best declaimer of the Senior Class.

Classifications are determined according to the following schedule:

Freshmen—those having less than 19 hours of college credit.

Sophomores—those having 19 or more credits, but less than 45.

Juniors—those having 45 or more credits, but less than 82.

Seniors—those having 82 or more credits, but less than 130.

Corpus Juris-Cyc Prize.—A Corpus Juris-Cyc prize is offered by the American Law Book Company for the best work in legal research in the College of Law.

Groover-Stewart Drug Company Cup.—Mr. F. C. Groover, President of the Groover-Stewart Drug Company, has given a large silver loving cup which is awarded to the graduating class in the College of Pharmacy attaining the highest general average in scholarship and is held by that class until this average is exceeded by a subsequent graduating class.

Haisley Lynch Medal.—The University is grateful to Mr. and Mrs. L. C. Lynch of Gainesville for their gift of the Haisley Lynch Medal for the best essay in American history. This medal is awarded annually by them in loving memory of their son, Haisley Lynch, a former student of the University, who was killed in action in France during the World War.

Harrison Company Award.—A set of the Photographic Reprint of the Florida Supreme Court Reports, Volumes 1-22, is offered by the Harrison Company to the senior law student doing all his work in this institution, and making the highest record during his law course.

The Leigh Medal.—Mrs. Townes Randolph Leigh of Gainesville offers a gold medal to that student in pharmacy outstanding in many qualities. The

award is made upon the vote of the student body and faculty of the College of Pharmacy, the faculty votes counting three to one of the student votes.

The David W. Ramsaur Medal.—Mrs. D. W. Ramsaur of Jacksonville offers a gold medal and an engraved certificate to that graduate of the College of Pharmacy making the highest average grade in scholarship and evincing leadership in student activities.

STUDENT ORGANIZATIONS AND PUBLICATIONS

Student Government.—Student government in the University of Florida is a cooperative affair based on mutual confidence between the student body and the faculty. Considerable authority has been granted the Student Body for the regulation and conduct of student affairs. The criterion in granting authority to the Student Body has been the disposition of the students to accept responsibility commensurate with the authority granted them. Generally speaking, the fields of student activity include regulation of extra-curricula affairs and the administration of the honor system.

Every enrolled student, except graduate and special students, is a member of the Student Body and has an equal vote in its government.

The University authorities feel that training in acceptance of responsibility for the conduct of student affairs at the University is a very valuable part of the educational growth of the individual student. The Student Body is practically a body politic with sovereignty in itself in the fields where University authorities have granted control. In all cases, appeal lies from decisions of Student Body committees to the President of the University.

Student government is patterned on the state and national form of government, but, of course, modified and adapted to meet the local needs of the Student Body. Powers are distributed into the three branches: (1) legislative, which is embodied in the Executive Council; (2) judicial, which is embodied in the Honor Court with penal and civil jurisdiction of all judicial matters; (3) executive, embodied in the President and shared with the Vice-President and Secretary-Treasurer of the Student Body. Members of all three branches are elected directly by the Student Body once a year.

Therefore, student government, in order to carry out those purposes for which it stands, enacts and enforces suitable and just laws, promotes athletics, debating, publications of the Student Body, entertainments of a general educational value, and such other activities as the Student Body may from time to time adopt. The officers of the Student Body are the President, Vice-President, Secretary-Treasurer, cheer leaders, members of the Honor Court, Athletic Council, Executive Council, Debating Council, Lyceum Council, officers of the Glee Club, and editors and business managers of student publications.

Honor Court.—The University of Florida operates under an honor system which is entirely a student function and one of the distinctive features of the student government. The judiciary body is an Honor Court of thirteen members elected from the respective colleges; the members elect a chancellor and a clerk from among their body. The Court, with the Honor Code as its legal basis, tries all students accused of cheating, stealing, failure to report cheating or stealing, and the passing of worthless checks. Every student entering the University of Florida takes an oath to respect, uphold, and defend the Honor Code and the Constitution of the Student Body.

Executive Council.—The Executive Council is composed of seventeen men elected from the colleges on the campus and in general acts as administrator of Student Body affairs. The other councils, Athletic, Debating, and Lyceum, have jurisdiction over their respective fields.

Publications.—The Student Body publishes *The Seminole*, the year book; *The Florida Alligator*, a weekly newspaper; and *The "F" Book*, the students' guide.

Y. M. C. A.—The purpose of the Young Men's Christian Association is to provide a medium through which the highest ideals of education and religion may be expressed in terms of service. The program of the Association is planned to meet definite needs as they become apparent. There is no membership fee. Any student may become a member by subscribing to its purpose and contributing to its support. Two secretaries having extensive experience with the problems of students are available for counsel and help.

Fraternities.—Twenty-two national social fraternities have established chapters at the University; most of them have already built chapter houses for their members, and the others have leased homes. There are also several local fraternities. The general work of the fraternities is controlled by the Interfraternity Conference, composed of two delegates from each of the national fraternities; and the Pan-Hellenic Council, composed of delegates from the local fraternities. The national fraternities at Florida are Alpha Gamma Rho, Alpha Tau Omega, Beta Kappa, Beta Theta Pi, Delta Chi, Delta Tau Delta, Delta Sigma Phi, Kappa Alpha, Kappa Sigma, Phi Beta Delta, Phi Delta Theta, Phi Kappa Tau, Pi Kappa Alpha, Pi Kappa Phi, Sigma Alpha Epsilon, Sigma Chi, Sigma Iota, Sigma Nu, Sigma Phi Epsilon, Tau Epsilon Phi, Theta Chi, and Theta Kappa Nu. The local fraternities are: Alpha Delta, Omega Upsilon Theta, and Sigma Lambda Tau.

Various honor societies and fraternities have been established at Florida. Phi Kappa Phi elects annually the highest ten per cent. scholastically, of the Senior Class. Blue Key and Omicron Delta Kappa (O.D.K.) are honor groups electing men to membership on the basis of leadership and participation in campus activities.

Other honorary fraternities are Alpha Kappa Psi, professional business fraternity; Alpha Phi Epsilon, literary and debating; Alpha Zeta, agricultural; Delta Epsilon, local pre-medical; Gamma Sigma Epsilon, chemical; Gargoyle, architectural; Kappa Delta Pi, educational; Kappa Gamma Delta, aeronautical; Kappa Phi Kappa, professional educational; Phi Alpha Delta, and Phi Delta Phi, legal; Phi Sigma, biological; Pi Delta Epsilon and Sigma Delta Chi, journalistic; Delta Sigma Pi, professional commerce; Pi Gamma Mu, social science; Scabbard and Blade, military; Sigma Delta Psi, athletic; Sigma Tau, engineering; Tau Kappa Alpha, forensic; Phi Eta Sigma, freshman scholastic; Rho Chi, pharmacy; Kappa Kappa Psi, honorary band; Thrysus, horticultural.

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of the
University of Florida

Bulletin of
The University Summer Session
1932



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The Reports of the President and the Board of Control, the Bulletin of General Information, the annual announcements of the individual colleges of the University, announcements of special courses of instruction, and reports of the University Officers.

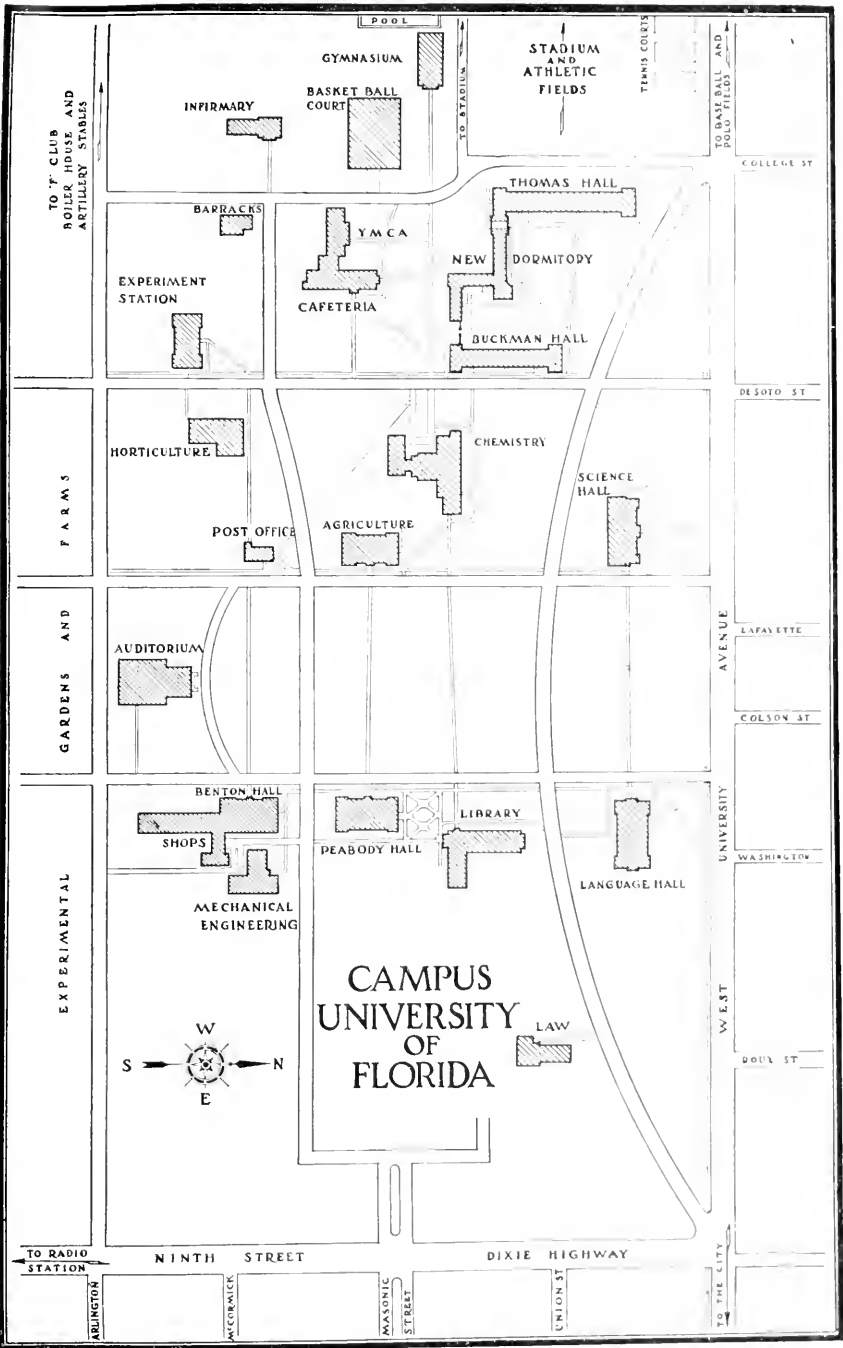
These bulletins will be sent gratuitously to all persons who apply for them. The applicant should specifically state which bulletin or what information is desired. Address

THE REGISTRAR
University of Florida
Gainesville, Florida

Research Publications.—Research publications will contain results of research work. Papers are published as separate monographs numbered in several series.

There is no free mailing list of these publications. Exchanges with institutions are arranged by the University Library. Correspondence concerning such exchanges should be addressed to the University Librarian, University of Florida, Gainesville, Florida. The issue and sale of all these publications is under the control of the Committee on Publications. Requests for individual copies, or for any other copies not included in institutional exchanges, should be addressed to the University Library, University of Florida, Gainesville Florida.

The Committee on University Publications
University of Florida
Gainesville, Florida



**NOTICE TO PROSPECTIVE
SUMMER SESSION STUDENTS**

All those expecting to attend the 1932 Summer Session at the University of Florida, should fill out the questionnaire on page 227 and mail it to the Registrar, University of Florida, Gainesville.

This questionnaire should be filled out and sent in to the Registrar, whether you have ever attended the University of Florida or not. Upon receipt of this questionnaire the Registrar will send you a card giving you permission to enroll in the 1932 Summer Session, providing you are eligible for admission. This will save you much time and confusion during registration, and it is hoped that each person expecting to register will mail in this questionnaire before June 1, 1932.

Blank questionnaires will be mailed to you upon request to the Registrar.

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SUMMER SESSION CALENDAR

June 6-11	Boys' Club Week.
June 13, Monday.....	Dormitories open. (Students are requested not to arrive on Sunday.)
June 13, Monday.....	First Faculty Meeting, 8:00 a.m.
June 13, Monday.....	Registration of students in Library, 9:00-12:00; 1:30-5:00.
June 14, Tuesday.....	Registration continued, 8:00-12:00; 1:30-5:00.
June 15, Wednesday.....	Classes begin, 8:00 a.m.
June 17, Friday, 5:00 p.m.....	Last day for changing course without fee.
June 20, Monday, 12:00 noon.....	Last day registration in the Summer Session is allowed.
June 25, Saturday, 12:00 noon.....	Last day for filing with Registrar application for a degree at the end of the Summer Session.
June 28, 29, 30.....	Fourth Annual State Convention of the Florida Association, Future Farmers of America.
July 4, Monday.....	Holiday.
July 9, Saturday.....	Last day for those receiving master's degree at the end of the summer session to submit theses to the Dean.
July 11, Monday.....	Last day for those beginning graduate work to file with the Dean application (Form 2) to be considered candidates for advanced degrees.
July 16, Saturday.....	Classes suspended.
July 30, Saturday.....	Classes suspended.
July 31, Sunday, 8:00 p.m.....	Baccalaureate Sermon in the Auditorium.
August 3, Wednesday.....	Last day for application for extension of certificate.
August 4, Thursday, 8:00 p.m.....	Graduation exercises in the Auditorium.
August 5, Friday, 12:00 noon.....	Summer Session ends. Lunch, last meal served in the University Cafeteria.
August 5, Friday, 7:00 p.m.....	Final Faculty Meeting for purpose of recommending students for extension of certificates.
August 8-13	Farmers' Week.

IMPORTANT DIRECTIONS

TO STUDENTS

After arriving at the University:

1. For room reservations in the dormitories, see Mrs. Margaret Peeler, south end of Buckman Hall, Room No. 43.
2. For outside boarding accommodations, see Dean of Women, Room 106, Peabody Hall, or New Dormitory, Room 144.
3. For arrangements for boarding in the University Cafeteria, see Cashier, first floor of Language Hall.
4. For information concerning social activities among women students, or any matter of interest to women, see Dean of Women, Peabody Hall, Room 106, or New Dormitory, Room 144.

TO FACULTY

All members of the Faculty will meet in the library at 8:00 a.m., Monday, June 13, to assist in the registration of students.

OFFICERS OF ADMINISTRATION

JOHN J. TIGERT, M.A. (Oxon.), Ed.D., D.C.L., LL.D., President of the University
 JAMES MARION FARR, Ph.D., Vice-President of the University
 JAMES WILLIAM NORMAN, Ph.D., Director of the Summer Session
 JAMES NESBITT ANDERSON, Ph.D., Dean of the Graduate School
 HARLEY WILLARD CHANDLER, M.S., Registrar and Director of Admissions
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 GLENN BALLARD SIMMONS, M.A.E., Acting Dean of the College of Education
 G. C. TILLMAN, M.D., Resident Physician
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 HARRY RAYMOND TRUSLER, M.A., LL.B., Dean of the College of Law
 WILLIAM HAROLD WILSON, Ph.D., Acting Dean of the College of Arts and
 Sciences

LIBRARY STAFF

CORA MILTIMORE, B.S., Librarian
 ALICE CUMMINS, B.A., B.S. in L.S., Assistant in Catalog and Reference Department
 ETHEL E. DONAHEY, B.A., B.S. in L.S., Assistant in Periodicals and Binding
 Department
 HENRIE MAY EDDY, B.A., Head of Reference Department
 MARY BEVERLY RUFFIN, B.A., B.S., Head of Catalog Department
 ELIZABETH RUTH THORNE, B.A., Assistant in Catalog Department
 VANNITA WESELY, B.A., Head of Circulation Department

ASSISTANTS IN ADMINISTRATION

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 LEWIS F. BLALOCK, B.S.B.A., Recorder, Office of the Registrar
 BEATRICE MCGARRAH BUCHHOLZ, B.S., Dietitian
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 FRONA GENTILE, Secretary, Office of the Registrar
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 PENELOPE GRIFFIN, B.A., Secretary, Office of the Registrar
 ROSA GRIMES, R.N., Head Nurse
 HELOISE B. HANDLEY, Secretary to Dean of Students
 GARLAND HIATT, B.A., Auditor
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 PRISCILLA McCALL KENNEDY, Secretary to the College of Arts and Sciences
 JOHN V. McQUITTY, B.A., Assistant Registrar
 CLAUDE L. MURPHREE, B.A., University Organist
 BURTON J. OTTE, M.S., Curator, Chemistry Department
 MARY E. PARROTT, Secretary to the President

MARGARET PEELER, Housekeeper
 IRENE ERSKINE PERRY, B.S., Secretary to the College of Education
 ILA ROUNTREE PRIDGEN, Secretary to the College of Law
 ELEANOR GWYNNETH SHAW, Secretary to the College of Agriculture
 NANNIE BELLE WHITAKER, B.A., Secretary to the College of Commerce and
 Journalism
 LILLIAN WHITLEY, Secretary to the Graduate School
 HOMER D. WINGATE, Auditor, Custodian Funds

FACULTY

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 MONTGOMERY DRUMMOND ANDERSON, Ph.D., Business Administration
 ERNEST GEORGE ATKIN, Ph.D., French
 ROBERT COLDER BEATY, M.A., Sociology
 ALVIN PERCY BLACK, B.A., General Natural Science
 LUCIUS MOODY BRISTOL, Ph.D., Sociology
 JOSEPH BRUNET, Ph.D., French
 ALAN BEVERLY BURRITT, M.L.A., Landscape Design
 RANDOLPH L. CARTER, M.A., Education
 ROBERT SPRATT COCKRELL, M.A., LL.B., Law
 JEROME CONNOR, M.A., Sociology
 HENRY PHILIP CONSTANS, M.A., Speech
 LEWIS BRISCOE COOPER, Ph.D., Education
 OLIVE B. COUNTS, M.A., Library Science
 ALFRED CRAGO, Ph.D., Education
 JOHN THOMAS CREIGHTON, M.S., Entomology
 URI PEARL DAVIS, M.A., Mathematics
 JOHN WILLIAM DEBRUYN, M.A., Glee Club
 HASSE OCTAVIUS ENWALL, Ph.D., Philosophy
 JAMES MARION FARR, Ph.D., English
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 JAMES DAVID GLUNT, Ph.D., History
 WILLIAM LEWIS GOETTE, M.A.E., Education
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 WILLIAM BYRON HATHAWAY, M.A., Spanish
 FRED HARVEY HEATH, Ph.D., General Natural Science
 THOMAS JEFFERSON HIGGINS, M.A., Spanish
 ELMER DUMOND HINCKLEY, Ph.D., Psychology
 JOE HOLSINGER, B.S.E.E., Health and Physical Education
 ELLSWORTH GAGE LANCASTER, Ph.D., Education
 JAMES MILLER LEAKE, Ph.D., History
 TOWNES RANDOLPH LEIGH, Ph.D., Chemistry
 WILBERT ALVA LITTLE, M.A., Education
 WALTER JEFFRIES MATHERLY, M.A., Business Administration
 ARTHUR RAYMOND MEAD, Ph.D., Education, Director, Demonstration School
 WILLIE A. METCALFE, Supervising Teacher

JEAN O. MITCHELL, Public School Art
 ALTON CHESTER MORRIS, M.A., English
 CHARLES EUGENE MOUNTS, M.A., English
 WILLIAM EDGAR MOORE, M.A., English
 CLAUDE L. MURPHREE, B.A., Organist
 NOLIA NEIGHBORS, Handwriting
 JAMES WILLIAM NORMAN, Ph.D., Education
 NORA NORTON, Education
 ANCIL N. PAYNE, Ph.D., History
 CASH BLAIR POLLARD, Ph.D., Chemistry
 MARGUERITE STRATFORD PORTER, B.S., Mus.B., Public School Music
 JOSEPH EDWIN PRICE, B.A.E., English
 CHARLES ARCHIRALD ROBERTSON, M.A., English
 MARY BEVERLY RUFFIN, B.A., B.S., Library Science
 ELLIS BENTON SALT, M.A., Health and Physical Education
 PETER C. SCAGLIONE, B.S.B.A., Business Administration
 FANNIE BELL SHAW, M.S., Health Education
 GLENN BALLARD SIMMONS, M.A.E., Education
 THOMAS MARSHALL SIMPSON, Ph.D., Mathematics
 DEAN SLAGLE, M.A., LL.B., Law
 ELIZABETH RUCKER SMART, M.A., Education
 BUNNIE OTHANEL SMITH, M.A., Education
 HERMAN E. SPIVEY, M.A., English
 O. C. R. STAGEBERG, B.S., Architecture, Painting and Allied Arts
 AGNES G. STORIE, M.A., Assistant Director, Demonstration School
 CLARENCE JOHN TeSELLE, M.A., LL.B., Law
 BENJAMIN ARTHUR TOLBERT, B.A.E., Education
 LESLIE BENNETT TRIBOLET, Ph.D., Political Science
 HARRY RAYMOND TRUSLER, M.A., LL.B., Law
 RUTH NEWELL UPSON, Supervising Teacher
 FRED CURTIS WARD, B.S., Accounting
 OSBORNE WILLIAMS, Ph.D., Psychology
 ROBERT C. WILLIAMSON, Ph.D., Physics
 WILLIAM HAROLD WILSON, Ph.D., Education
 J. HOOPER WISE, M.A.E., Education
 ALBERTA MURPHREE WORTH, Voice

STUDENT ASSISTANTS

LAWRENCE AMUNDSEN, B.A., Student Assistant, Chemistry
 W. JACOB KARRAKER, Student Assistant, Physics
 SIEBERT CLINTON PEARSON, Student Assistant, Biology
 WILLIAM E. ROBINSON, M.S., Assistant in General Natural Science
 SILAS MELVIN THRONSON, M.S., Laboratory Assistant, General Natural Science

ADMISSION

The prospective student should refer to the *Bulletin of General Information* for regulations concerning admission to the University.

ADMISSION BY COLLEGE APTITUDE TEST

Worthy adult students who expect to receive a degree (or diploma) from the University and who, for any good reason, are unable to offer the necessary high school entrance units may make a written application to the Committee on Admissions to take a College Aptitude Test. The application must be submitted to the Registrar and Director of Admissions before June 13, 1932. The application must set forth the applicant's reasons for wishing to take the test; a complete statement of all high school units (statements of work done in high school must be sent from the principal directly to the Registrar); the approximate amount of college work already completed with the name of the college where it was taken; and the applicant's plans for graduation from college. The Registrar will notify the applicant whether the application is accepted or rejected.

The aptitude test will be given just once during the 1932 Summer Session, namely, on Monday, June 20, at 2:00 P.M., in Room 205, Peabody Hall. Success on this test does not give any specific high school units but the person who passes it is deemed worthy of receiving a degree or diploma from the University of Florida without further concern about high school units.

ADULT SPECIAL STUDENTS

No student will be admitted to any school or college of the University who has not fully met the entrance requirements by one of the above methods, except applicants 21 years of age or more, who may desire to pursue a special and limited course of study. Such candidates for admission must secure the approval of the college concerned for the work they wish to pursue.

GENERAL INFORMATION

REDUCED RAILROAD RATES

The Southeastern Passenger Association has authorized reduced rates to Summer Session students on the round trip identification plan from all stations in the southeast territory except stations on the following railways: Louisville and Wadley, Sylvania Central, Wadley Southern, New Orleans Great Northern, and Winston-Salem Southbound. The rates are based on fare and one-half for the round trip, the minimum excursion fare being one dollar. Round trip tickets will be sold students and members of their families only upon presentation of identification certificates to ticket agent at time of purchase of tickets. The identification certificates will be furnished by the Director of the Summer Session upon application.

Tickets will be sold from June 9th to 15th, inclusive, and the final limit of all tickets will be August 11th. All round trip reduced rate tickets must be validated by the regular ticket agent at Gainesville before the return journey is commenced.

In order that the nearest railroad ticket agent may have a supply of tickets on hand, students should make inquiry of him concerning these rates at least

a week before purchasing tickets to Gainesville. Railroad ticket agents will not be able to supply the necessary "identification certificate." This can be secured only from the Director of the Summer Session.

Students are urged to avail themselves of the reduced rates by obtaining in advance from the Director of the Summer Session an identification certificate or carefully preserving the one which will be enclosed in the letters written to prospective students.

THE LIBRARY

Full information concerning the University Library may be found in the *Bulletin of General Information*.

LECTURES AND ENTERTAINMENTS

The auditorium with a seating capacity of 1800, the magnificent pipe organ and the Steinway concert grand piano make the facilities for lectures and musical entertainments unsurpassed. A splendid program will be arranged. Stress will be placed upon entertainments and performances by students, thus developing the latent capacities already on the campus. Students in the Department of Speech will from time to time produce plays and entertainments of a high order, which will be acted and directed by the students themselves. The Department of Music, featuring the pupils in Voice, the Glee Club and others of ability, will put on a production of some popular light opera. It is hoped that a large number of good voices, both male and female, will try out for this production.

A feature of the Summer Session of 1931 was the production of Tierney's musical comedy, *Irene*. It was staged under the direction of Alberta Murphree Worth, with the assistance of the Glee Club.

RELIGIOUS AND SOCIAL LIFE

The moral and religious atmosphere at the Summer Session is wholesome. The leading religious denominations have attractive places of worship and students are welcomed at every service. Transportation to and from church is provided for those students who will attend. Once each week a devotional service is held in the University Auditorium in connection with the Student Assembly.

THE Y. W. Y., M. C. A.

The Y. M. C. A. Hall will be operated this summer as a social center for the campus. This is an excellent place to spend a part of one's recreation periods with friends and visitors. A young lady assistant to the Dean of Women will be in charge and will take pleasure in doing everything possible to make your stay pleasant so far as this department is concerned. A piano, reading matter, committee rooms, kitchenette, ice water, various games and other things to enable students to pass their leisure hours comfortably are in this building.

ATHLETICS

The gymnasium, basketball court, the base-ball grounds, tennis courts and swimming pool are at the disposition of the students, and instructors are at hand to direct athletic activities. A well-kept golf course is near the University and for a nominal fee students of the Summer Session are permitted to play.

The brick gymnasium will be used for women students exclusively; the

basketball gymnasium will be for men students exclusively. Dressing rooms will be provided in each of these buildings; hence, students will not be permitted to wear swimming suits or gymnasium suits on the campus.

The following schedule will be enforced for the use of the swimming pool:

Women: T. Th. S., 2:00-6:00 P.M.

Men: W. F., 2:00-6:00 P.M.

THE GENERAL ASSEMBLY

All students and faculty members are expected to attend the General Assembly on Tuesdays and Fridays from 7:40 to 8:00. The Auditorium is near enough to the main lecture halls to make it easily accessible to all students.

Many important announcements will be made at the General Assembly, for the observance of which students will be held responsible, even though they may not be in attendance at the time.

SOCIETIES AND CLUBS

PHI KAPPA PHI

A chapter of the Honor Society of Phi Kappa Phi was established at the University during the spring of 1912. To be eligible for membership a student must have been in attendance at the University for at least one year, or three summer sessions, have been guilty of no serious breaches of discipline, be within one year of finishing a course leading to a degree, and stand among the first tenth of the senior class of the University. Candidates for election to Phi Kappa Phi must have attained an honor point average of 2 on all scholastic work, for which credit toward a degree is received.

KAPPA DELTA PI

Kappa Delta Pi is an honorary fraternity, similar to Phi Kappa Phi, except that only juniors and seniors in the College of Education are eligible for membership. This fraternity plays an important part in the life of the Summer Session.

PI GAMMA MU

Pi Gamma Mu is an honor society in social science, electing members from the junior and senior classes who have made an honor point average of 2 on all scholastic work, credited toward the degree. Twenty hours of the work must have been done in social science, with eighteen hours in one department. The purpose of the society is to study current social problems.

PEABODY CLUB

All students of the College of Education are eligible for membership in Peabody Club. This organization meets weekly in Peabody auditorium, where delightful and instructive programs are rendered.

COUNTY CLUBS

During the session clubs are formed from each county of the State and many interesting and delightful associations are formed among the students and members of the faculty.

ORANGE AND BLUE BULLETIN

A mimeographed sheet is issued each day during the session and appears on all bulletin boards for the dissemination of information, changes in sched-

ule, club meetings, lost and found notices, etc. This is the medium used by faculty and students for making announcements and each student should read the Orange and Blue Bulletin daily.

ANNOUNCEMENTS

Important announcements will be made on the bulletin boards in Peabody Hall and Language Hall. Students should read these daily. Students are responsible for all announcements made in the General Assembly, on the bulletin boards and in the Orange and Blue Bulletin.

DEMONSTRATION SCHOOL

As in the past six years, the College of Education will operate a Demonstration school during the Summer Session. The School will enroll pupils from the first to the sixth grades inclusive. The Demonstration School is located in the High School Building.

The best teachers in the state for this work will be employed, in order that the children may be given the most expert instruction possible. A busy child is a happy child, and it is planned that these children have three hours each morning of delightful employment in music, organized play, stimulating handwork, as well as instruction in reading, history, arithmetic, geography and other school subjects.

Only a limited number of children can be accommodated, and those who wish their children enrolled should make reservations at once. The term lasts for six weeks, beginning Monday, June 20th. Daily sessions extend from 8:30 A.M. to 11:50 A.M. A fee of \$6 is required of each child. This fee will cover only the actual cost of materials used.

THE EMPLOYMENT BUREAU

As the College of Education and the Summer Session wish to serve the whole state in every possible way, a Teachers' Employment Bureau was established several years ago. It is open throughout the year.

Its duties are to assist students and graduates of the University to obtain positions in the teaching profession. It keeps on file information both as to vacancies and as to available teachers. When called upon the Bureau tries to meet the needs of both teachers and school officials.

The Director of the Bureau will be glad to be informed of present or prospective vacancies in positions for which college-trained men or women are eligible. No charges are made for services, though students are required to pay for all telegrams and telephone calls made in their behalf.

Communications in regard to teaching positions should be addressed to the Director of the Teachers' Employment Bureau, College of Education, University of Florida, Gainesville.

MUSIC DEPARTMENT

The Summer Session offers excellent courses in Public School Music, and private work in Voice.

For private lessons in voice a tuition is charged, amounting to \$25 for the eight weeks for two lessons per week, or \$15 for the term for one lesson per week. To encourage students who are talented in voice, two scholarships

are offered based upon a tryout before competent judges. The first scholarship is for the full amount of the tuition, and the second is for the half-tuition. Everyone who sings is urged to compete for these scholarships.

STATE CONVENTION FUTURE FARMERS OF AMERICA

The fourth annual State Convention, of the Florida Association, Future Farmers of America, will be held at the University of Florida on June 28, 29 and 30. The membership of the Future Farmer organization is made up of boys who are studying vocational agriculture in our public schools.

The objectives of this organization as set up in the Constitution are:

1. To promote vocational education in agriculture in the public schools of the United States.
2. To create more interest in the intelligent choice of farming occupations.
3. To create and nurture a love of country life.
4. To encourage recreational and educational activities for students in vocational agriculture.
5. To promote thrift.
6. To encourage cooperative effort among students of vocational agriculture.
7. To strengthen the confidence of the farm boy in himself and his work.
8. To promote scholarship among students of vocational agriculture.
9. To develop rural leadership.

Since one of the objectives of the Future Farmer organization is to train for leadership, a public speaking contest will be held at the University Auditorium on the night of June 30th and the speeches will be broadcast over Radio Station WRUF from 7:00 to 8:30 E. S. T.

During the State Convention the Future Farmers will combine business with pleasure and in addition to their business meetings and the educational features provided, they will participate in such recreational activities as swimming, basketball, baseball, volley ball and other similar sports.

Programs will be printed and distributed at a later date giving detailed information regarding events scheduled and the public is cordially invited to attend all contests as guests of the Florida Association, Future Farmers of America.

THE SUMMER SESSION ENGLISH COUNCIL

The Summer Session English Council meets every Tuesday evening at 7:30 in Language 212. All teachers of English in junior and senior high schools are invited to attend and take part in round-table discussions of current teaching problems. In addition to informal exchange of opinion, helpful talks are given by various members of the Summer Session English faculty on such topics as the following: Minimum Requirements in the Mechanics of Composition, The Reading of High School Pupils, Spoken English, The Use of Standardized Tests, The Spelling Problem, Dramatic Projects and Shakespeare, Needs of the College Entrant, The English Teacher and the Library, The Teaching of Poetry, Stimuli for Better Writing.

SCHOOL EXHIBITS

Textbooks, books of reference, and school supplies and equipment will be shown by many of the leading publishing houses and manufacturers. Nothing is sold at this exhibit, but all materials may be seen and examined.

EXPENSES

The cost of attending the Summer Session is very moderate when compared with that at many other institutions. The tuition is free and other fees are very low. For laundry, incidentals and books, expenditures vary, but necessary expenditures are not very high. The estimate of the cost to a student living on the campus follows:

GENERAL FEES

Tuition	\$ 0.00
Registration fee, residents of Florida.....	15.00
Registration fee, non-residents of Florida.....	25.00
Registration fee in the College of Law.....	25.00
Late Registration fee, per day.....	1.00
Change of course fee (after Friday of 1st week).....	1.00
Room reservation fee	5.00

SPECIAL LABORATORY AND TUITION FEES

Architecture, Painting and Allied Arts, per credit.....	\$ 5.00
Agronomy 301.....	2.00
Biology laboratory fee.....	5.00
Biology breakage fee, each course	5.00
Botany laboratory fee.....	5.00
Business Administration 83.....	15.00
Business Administration 84.....	5.00
Business Administration 85.....	5.00
Business Administration 86.....	5.00
Business Administration 211-212, per semester hour.....	1.00
Chemistry laboratory fee.....	5.00
Chemistry breakage fee.....	5.00
Demonstration School fee.....	6.00
Entomology 201.....	2.00
General Natural Science fee.....	3.00
Glee Club fee (for music scores).....	1.00
Handwriting	2.00
Health and Physical Education 115 .....	.50
Health and Physical Education 116 .....	.50
Health and Physical Education 101, 111, 114, 213, 214, 221, 313, and 314, each.....	1.50
Library Science 101.....	1.50
Library Science 104	1.50
Library Science 202.....	1.50
Library Science 204	1.50
Physics 115 laboratory fee.....	2.50
Physics 116 laboratory fee.....	2.50
Primary Handwork (Education 123)	1.00
Psychology 304.....	2.00
Public School Art fee, each course	1.00

Swimming Pool fee.....	1.00
Tests and Measurements (Education 317 and Education 503).....	1.50
Voice tuition per term (2 lessons per week).....	25.00
Voice tuition per term (1 lesson per week).....	15.00

An estimate of personal expenses is as follows:

Lodging (in advance for session):	High	Low
Buckman and Thomas Halls (except Sections D and E, Thomas)	\$12.00	\$12.00
Section D, Thomas Hall.....	17.00	17.00
Section E, Thomas Hall.....	18.00	18.00
New Dormitory (first three floors).....	20.00	20.00
New Dormitory (fourth floor).....	18.00	18.00
Board in University Cafeteria:		
Three meals a day monthly ticket of 4 weeks.....	18.00	18.00
Two meals a day monthly ticket of 4 weeks.....	15.00	15.00
Three meals a day weekly ticket.....		4.75
Meals without tickets as follows:		
Breakfast .....		.25
Dinner .....		.30
Supper .....		.25
Books	8.00	3.00
Incidentals	16.00	8.00
Laundry	12.00	4.00

A charge of \$2 extra is made for single rooms in the New Dormitory and Sections D and E, Thomas Hall.

The \$5 sent to reserve dormitory room is not a registration fee. It is held as a breakage fee, and will be returned at close of term if no damage by student has been reported from dormitory.

The registration fee is paid at the time of registration.

For students registering after the days provided for this purpose, an extra fee of \$1 per day, up to \$5, will be charged.

A fee of \$1 will be charged for every change of course after Friday of the first week of the Summer Session.

LAW COLLEGE FEES

During the Regular Session there is an extra registration fee of \$20 per semester. During the Summer Session the extra registration fee is half this amount, or \$10. Any student registered in another college in the Summer Session who meets the entrance requirements of the College of Law will be permitted to take law courses without extra charge; but the combined academic and law work must not exceed nine semester hours.

REFUND OF FEES

Fees paid in advance for room reservation will be refunded on application up to and including June 1 but not after that date.

If by Friday of the first week students for any reason wish to withdraw

from the University, the fees paid less a flat overhead fee of \$3, will be refunded. After this date there will be no refund of any fee.

In case of students withdrawing from the University, for satisfactory reasons, transfer of lease on dormitory rooms will be accepted in lieu of refund.

Refund on meal tickets at the University Cafeteria will be made on the basis of 50% on all unused meals, as noted on the back of the ticket.

There will be no refund of fees after the first week of the Summer Session.

There will be no refund of laboratory fees after the first two weeks of the Summer Session. The instructor has the right to refuse any refund of laboratory fees when these funds have been used in purchasing laboratory supplies.

THE UNIVERSITY DORMITORIES

Only women students will be admitted to the dormitories. Rooms are rented for the term of eight weeks, payable in advance. All dormitories will be open June 13 and students are requested not to arrive on Sunday. The dormitories will close at 8:00 o'clock Saturday morning, August 6.

LIVING ACCOMMODATIONS OFF THE CAMPUS

For students living off the campus the estimated expense is the same except that room and board will be somewhat higher. A list of approved rooming and boarding houses may be had by applying to the Director of the Summer Session. In no case will men and women students be permitted to room in the same house. In the case of married couples, special arrangements will be made.

THE UNIVERSITY CAFETERIA

The University operates a modern Cafeteria, offering a wide selection of wholesome foods. It is open to all students and their families. Meal tickets may be secured at the office of the Business Manager.

STUDENTS' DEPOSITORY

For the convenience and protection of students while in residence at the University, funds may be deposited with the Cashier. A charge of twenty-five cents is made on each account.

LOAN FUNDS

By means of the Florida State Scholarship Fund, the College Girls Club Scholarship Loan Fund, the Elizabeth Skinner Jackson Loan Fund, and the R. A. Gray Loan Fund, the Summer Session is able to make small loans to a limited number of students in order to help defray expenses in the current session. These loans are governed by the following regulations:

- (1) Applicant must be a teacher in the State of Florida.
- (2) Applicant must have a position for succeeding term of school.
- (3) Applicant must be in need of aid.
- (4) Applicant should apply for Scholarship Loan at least two weeks before opening of the Summer Session.
- (5) Application must be made direct to the Director of the Summer Session.

(6) Applicant must be recommended by two school officials of the county in which he or she is teaching at the time of application.

(7) Loans are to be used for attendance at the University of Florida Summer Session.

(8) Loans will be for a period not to exceed nine months from the date on which Summer Session begins.

(9) Loan is to bear interest at the rate of 8%, which will be added to the main fund.

Blank form for application for a scholarship loan will be furnished upon application to the Director of the Summer Session.

SCHOLARSHIPS

To aid and encourage ambitious and worthy young people to become teachers, the State provides \$200 per year for four years to enable one young man and one young woman for each senator and representative in the legislature to attend one of the State institutions. To secure this aid it is necessary for the applicant to be a graduate of a four-year high school and to pass a reasonable examination on high school subjects, given by the State in August in the various county seats. The successful male applicants are required to register at the University of Florida, in the College of Education. After completing their courses they will be expected to teach in the State for two years. The scholarships may be used in the regular session, and also in the summer session of the University. Students contemplating taking the examination for the scholarships must make application to the State Superintendent of Public Instruction and also to their County Superintendents. The Dean of Students at the University will be glad to give information relative to scholarship vacancies.

ROOMING FACILITIES

FOR WOMEN

Ample rooming facilities for women students will be provided in the New Dormitory and in Buckman and Thomas Halls. Rooms in all dormitories may be reserved at any time by application of the student to the Business Manager of the University of Florida. A deposit of \$5 is required of each student making room reservation. This may be paid at time of reservation, but must be in by May 1st. This amount is held as a breakage fee and will be returned to the student at the end of the session, less any breakage which may be charged against her. Students are not required to take their meals at the Cafeteria.

FOR MEN

Men students cannot be accommodated on the campus, but are required to find rooms outside. A number of comfortable rooming, boarding and fraternity houses will be open to men. A list of approved houses will be furnished upon application to the Dean of Students.

WHAT TO BRING

All bedrooms are comfortably furnished with single iron bedsteads and mattresses, chiffonier or bureau, a table, washstand and chairs. Students are required to provide themselves with a pillow, bed linen, towels and other things that they may wish for their own special comfort and convenience.

TEXTBOOKS

The University Book Store carries a full line of all textbooks used in the Summer Session sold at list prices. The Book Store also handles necessary stationery and other supplies. Students may well bring English dictionaries and other useful books of reference. Students in Education courses should bring with them professional books and textbooks related to the courses they plan to take.

CERTIFICATES

GRADUATE STATE CERTIFICATES

Graduates of the University are granted Graduate State Certificates without further examination, provided that three-twentieths of their work has been devoted to professional training and provided that they have satisfied the requirement of the law as to the Constitution of the United States. It is well for the student to note that a Graduate State Certificate permits him to teach only those subjects that are listed on such certificate, and that only those subjects will be placed on his certificate in which he has specialized in his college course. This will ordinarily mean that a subject must have been pursued at least two years in college, in addition to credit for all high school courses offered in that subject by a standard high school, before a certificate to teach that subject will be granted. Applicants for the Graduate State Certificate must apply to Superintendent W. S. Cawthon, Tallahassee, for application blanks and for further information.

Graduate State Certificates may be converted into Life Certificates by "presenting satisfactory evidence of having taught successfully for a period of twenty-four months under a Graduate State Certificate, and presenting endorsement of three holders of Life State, Life Graduate State, or Life Professional Certificates." Application for a Life Graduate State Certificate must be filed before the expiration of the Graduate State Certificate.

REGULATIONS GOVERNING THE EXTENSION OF
CERTIFICATES

When credit for the extension of certificate is desired, regulations in addition to those mentioned under the heading "Maximum and Minimum Hours" (see below) must be observed.

Every applicant for extension must take at least fifteen recitation hours a week. Included among these fifteen recitations must be a course in Education (or Psychology 201) of at least four hours a week.

The repetition of courses in Education or Psychology previously taken will not satisfy the professional requirement for extension.

To be granted extension, a student's grades are taken into consideration. Usually a passing grade is required.

No student will be granted an extension of certificate who does not apply for the same on the student Registration Card. In case the student fails to apply on the Registration Card at time of registration, request may be made to the Registrar, Room 3, Language Hall to have his application for extension properly recorded. A list of those who have applied will be posted on the bulletin boards in Language Hall and Peabody Hall not later than July 1st. In case of error in this list, students should report to the Registrar. No student will be recommended for extension whose name does not appear on this list by August 3rd. Students should register under exactly the same name that appears on the certificate which they wish to have extended.

Certificates to be extended must be sent by registered mail to W. S. Cawthon, State Superintendent of Public Instruction, Tallahassee, Florida, within a year after the completion of the Summer Session. Otherwise extension will not be granted.

GENERAL REGULATIONS

The student is advised to procure the University Bulletin entitled *By-Laws* and acquaint himself with all general regulations. Particular attention is called to the following items.

RESIDENCE REQUIREMENT

In order to receive a bachelor's degree from any college of the University, at least 30 semester hours must have been completed in residence on the campus. In all colleges except the College of Education these 30 semester hours must be the last which one takes immediately prior to graduation. In the College of Education 12 of the last 36 may be taken by extension. Even in this case, 30 semester hours must have been completed in residence.

In order to receive the Normal Diploma, the student is required to complete 27 semester hours in residence on the campus. Extension work may not at any time be offered to satisfy the residence requirement.

AMOUNT OF EXTENSION WORK PERMITTED

No person shall be allowed to take more than one-fourth of the credits toward a degree by correspondence study and extension class. No person shall be allowed to take more than 12 of the last 36 credits necessary for a Bachelor's Degree by correspondence study or extension class. No person shall be allowed to take more than 9 credits of work by correspondence during the summer vacation period. While in residence, a student shall not be allowed to take work by correspondence without the consent of the dean. This will be granted only in exceptional cases. In the case of candidates for the Normal Diploma, the students may not take more than 16 credits by correspondence or extension.

SPECIAL REGULATIONS APPLICABLE TO THE COLLEGE OF EDUCATION

DEGREES

The following degrees are offered in the College of Education.

1. Bachelor of Arts in Education. (For requirements, see below.)
2. Bachelor of Science in Education. For this degree the student must select and complete the required courses in Group E. (See page 199.)
3. Bachelor of Science in Agricultural Education. (For complete requirements see the *Bulletin of the College of Education*.)
4. Bachelor of Arts in Health and Physical Education. (For requirements see page 201.)
5. Bachelor of Science in Health and Physical Education. (For requirements see page 201.)
6. Normal Diploma. Given upon the completion of a two-year prescribed course. (For complete requirements, see below.)

ABBREVIATIONS

The following abbreviations are used in this bulletin:

As. Agricultural Economics	Jm. Journalism
Ag. Agricultural Engineering	Le. Landscape Design
Ay. Agronomy	Ln. Latin
Al. Animal Husbandry	Lw. Law
Ae. Architecture	Ly. Library Science
Bey. Bacteriology	Ms. Mathematics
Be. Bible	Me. Mechanic Arts
Bly. Biology	Ml. Mechanical Engineering
Bty. Botany	My. Military Science
Bs. Business Administration	Msc. Music
Cy. Chemistry	Ng. Nursing Education
Cl. Civil Engineering	Pg. Painting
Dy. Dairying	Pgy. Pharmacognosy
Dg. Drawing	Ply. Pharmacology
Es. Economics	Phy. Pharmacy
En. Education	Ppy. Philosophy
El. Electrical Engineering	Pl. Physical Education
Eh. English	Ps. Physics
Ey. Entomology	Pt. Plant Pathology
Fh. French	Pel. Political Science
Gl. General Natural Science	Pp. Poultry Husbandry
Gy. Geology	Psy. Psychology
Gn. German	Pe. Public School Art
Gk. Greek	Sch. Speech
Hg. Handwriting	Sy. Sociology
HPl. Health and Physical Education	Sh. Spanish
Hy. History	Vy. Veterinary Science
He. Horticulture	

CURRICULA

I. For Those Who Expect to Teach
in Primary and Intermediate
Grades:

NORMAL DIPLOMA	
	Credits
En. 101 How to Teach	3
En. 103 Health Education	3
En. 121 Primary Methods	3
En. 122—Teaching Reading and Lit- erature in Grades	3
En. 233 Child and Adol. Psychology	3
En. 253 Directed Observation	2
Eh. 101-102 Rhetoric and Com.	6
Eh. 201-202—Hist. of Literature	6
One Group other than Group C	12
Gl. 101-102*—Gen. Nat. Science	8
Sy. 111-112—Intro. to Soc. Studies	6
Drawing	1
or	
Drawing and En. 123 Elem. Hand- work	1
Public School Music	1
Electives	3
Total	66

*Students who elect group E are not required to take Gl. 101-102. They may take it prior to the required courses in Group E but may not substitute it for any Group E requirement.

BACHELOR'S DEGREE

If after taking the Normal Diploma the student wishes to take a **bachelor's degree**, he must take an additional 66 semester hours. Included in this he must complete two groups (see page 199) and take the following:

	Credits
En. 207—Educational Psychology	3
En. 308—Elem. School Curriculum	3
En. 317—Tests and Measurements	3
En. —Supervised Teaching	1
En. 401 School Adm. and Superv.	3
En. 403 Principles of Education	3

In case a student is exempt from military science, he must substitute an equal number of credits from other departments.

II. For Those Who Expect to Teach
in the Junior and Senior High
School:

NORMAL DIPLOMA	
	Credits
Pl. 101-102—Elem. Gymnastics	2
En. 101—How to Teach	3
En. 102—Hist. and Prin. of Educ.	3
or	
En. 103—Health Education	3
En. 203—Child and Adol. Psychology	
En. 253—Directed Observation	2
Eh. 101-102—Rhetoric and Comp.	6
Eh. 201-202—Hist. of Literature	6
Gl. 101 102*—Gen. Nat. Science	8
Sy. 111-112—Intro. to Soc. Studies	6
One Group other than Group C	12
Electives (students not exempt from Military Science must take 8 semes- ter hours in that subject)	15
Total	66

BACHELOR'S DEGREE

If after taking the Normal Diploma the student wishes to take a **bachelor's degree**, he must take an additional 66 semester hours. Included in this he must complete two groups (see p. 199) and take the following:

	Credits
En. 207—Educational Psychology	3
En. 308—Elem. School Curriculum	3
En. —Meth. and Materials course	4
En. —Supervised Teaching	4
En. 401—School Adm. and Superv.	3
En. 403—Principles of Education	3

THE GROUPS

For the degrees of Bachelor of Arts in Education and Bachelor of Science in Education the student must complete all courses in two of the following groups. Group E must be elected if the student desires the degree of Bachelor of Science in Education:

A—ANCIENT LANGUAGES B—MODERN LANGUAGES

C—ENGLISH

Ln. 101-102 } Ln. 201-202 } 18 Ln. 203-204 } credits	Fh. 21-22 } Fh. 101-102 } Fh. 201-202 } or Sh. 21-22 } Sh. 101-102 } 18 Sh. 201-202 } credits	Eh. 101-102 } Eh. 103-104 } Eh. 201-202 } 25 Eh. 301-302 } credits Eh. 305 or 306 }
	Gn. 21-22 } Gn. 101-102 } Gn. 201-202 }	Foreign Language } 6 credits } English or Foreign } 12 Language 6 credits } credits

D—MATHEMATICS

E—NATURAL SCIENCE

F—SOCIAL SCIENCE

Ms. 101-102 } Ms. 251-252 } 18 Ms. 331 } credits Ms. 568 }	Bly. 101 } Ety. 101-102 } 36 Bly. 106 } credits Cy. 101-102 } Ps. 111-112 } Ps. 115-116 }	Hy. 101-102 } Pel. 101-102 } 24 Es. 101-102 } credits Sy. 111-112 }
		Adv. Hy. 12 } credits or } Adv. Pel. 12 } 12 credits or } credits Adv. Es. 12 } credits or } Adv. Sy. 12 } credits }

G—COMMERCIAL EDUCATION

Es. 101-102 } Bs. 83-84 } Bs. 87 } Bs. 103-104 } 35 Bs. 211-212 } credits Bs. 401-402 } Eh. 355-356 }

For information concerning the curricula in Agricultural Education and in Manual Arts, refer to the *Bulletin of the College of Education*.

CURRICULUM IN LIBRARY SCIENCE
Leading to the Certificate in Library Science

FIRST SUMMER		SECOND SUMMER	
Subject	Credits	Subject	Credits
Cataloging I.....	3	Reference I.....	3
Classification I.....	2	Bibliography.....	2
Library Economy.....	2	Children's Literature.....	3
Book Selection I.....	3	Teaching Use Library.....	1
		History of Books.....	1
THIRD SUMMER		FOURTH SUMMER	
Cataloging II.....	3	Book Selection II.....	3
Reference II.....	2		

In addition to the above required courses, 2 credits must be earned from the following elective group.

ELECTIVES THIRD AND FOURTH
SUMMERS

Subject	Credits
Place of Library in School.....	2
Administration.....	2
School Libraries.....	2
Child Psychology.....	3
Library Work with Children.....	2
Government Documents.....	2
Classification.....	2
Practice Work (6 hours per week)....	2

The Certificate in Library Science will be granted upon the completion of the above 28 required credits and 2 elective credits.

CURRICULUM IN HEALTH AND PHYSICAL EDUCATION

* Leading to the degree of Bachelor of Arts and Bachelor of Science in Health and Physical Education

FRESHMAN YEAR			
First Semester		Second Semester	
Names of Courses	Credits	Names of Courses	Credits
Eh. 101—Rhetoric and Composition	3	Eh. 102 Rhetoric and Composition	3
Bly. 161—Prin. Animal Biology	5	HPL 113 Anatomy	5
En. 161—How to Teach	3	HPL 0107 Hygiene	2
HPL 101—Football	2	HPL 111 Natural Activities I	2
HPL 111—Basketball	2	Sociology**	3
Military Science 193 Artillery	2	Military Science 104 Artillery	2
Total	17	Total	17

SOPHOMORE YEAR			
English	3	English	3
Ps. 111***—General Physics, Lec.	3	Ps. 112*** General Physics, Lec.	3
Ps. 115***—General Physics, Lab.	2	Ps. 116*** General Physics, Lab.	2
HPL 215—Hist. and Principles of Physical Education	2	HPL 216 Principles of Physical Education	2
HPL 213—Natural Activities II	2	HPL 211 Natural Activities III	2
HPL 201—Football	2	En. 0103 Health Education	3
HPL 251—Boxing	1	My. 201 Artillery	2
My. 293—Artillery	2		
Total	17	Total	17

JUNIOR YEAR			
Cy. 101***—General Chemistry	5	Cy. 102*** General Chemistry	5
HPL 311—Organ. and Adm.	4	HPL 312—Organ. and Adm.	4
HPL 313—Natural Activities IV	2	HPL 311 Natural Activities V	2
En. 203—Child and Adol. Psychology	3	En. 0297 Educational Psychology	3
HPL 301—Football	1	HPL 301 Track	2
HPL 303—Basketball	1		
Total	16	Total	16

SENIOR YEAR			
En. 475 Supervised Teach. in Health and Physical Education	3	En. 0191 School Adm. and Supervision or	3
En. — Methods and Materials course in Group Selected	2	En. 406 Elementary School Principal or	
HPL 351—Intramurals	2	En. 408 High School Admin.	2
HPL 353—Lab. for HPL 351	1	HPL 311 Baseball	
Electives	8	Sch. 0201 Public Speaking	3
		Electives	8
Total	16	Total	16

*If the sciences are taken as listed, this curriculum leads to the degree B.S. in Health and Physical Education; if another Group is selected, it leads to the degree B.A. in Health and Physical Education.

**Students who wish the B.S. degree in Health and Physical Education should take Ms. 085 or 0101 and defer Sociology until a later year.

***If a student does not wish to take Natural Sciences as here listed, he may substitute any Group as authorized in the current bulletin of the College of Education.

THE MASTER'S DEGREE

The major courses are regularly numbered above 500 and the minors between 300 and 500, but there is no objection to counting a course above 500 in one department as a minor in another.

As a usual thing, undergraduate students are not permitted to register for courses that are numbered above 500.

A number of courses have already been arranged that may count as majors. Efforts will be made to arrange still others upon request. If the major work wished is not listed, requests for it should be made at an early date.

REQUIREMENTS FOR THE MASTER'S DEGREE

A candidate for the Master's Degree must be in residence for at least one scholastic year, or four summer terms, devoting his entire time during this period to study and research.

In addition to registration for the courses which a graduate student wishes to take, he must have an application blank (Form 2) properly filled out and presented to the Dean of the Graduate School not later than July 11th. These blanks may be secured at the time of registration from the Dean of the Graduate School.

The candidate must complete one major and two minors. A major consists of twelve semester-hours of rank above the senior class. A minor consists of six semester-hours of rank above the sophomore class.

In all departments a general examination, either oral or written or both, covering the whole of the field of study of the candidate, or any part of it, is required. This may embrace not only the thesis and the courses taken, but also any questions that a student majoring in that department may reasonably be expected to be able to answer.

A thesis is required of all candidates. This thesis should be closely allied to the major subject. The title of the thesis should be submitted by the end of the first summer. The thesis itself should be completed and submitted by the end of the fourth week of the Summer Session in which the student expects to receive his degree.

A reading knowledge of at least one foreign language is required.

All students majoring in Education are required to take Education 527. All others are advised to take this course.

Passing grade for graduate students is B.

The work for the master's degree must be completed within seven years from the time of registering for graduate work.

For full information see the *Bulletin of the Graduate School*.

COLLEGE OF ARTS AND SCIENCES

Until about 1850 the classical course, leading to the Bachelor of Arts (A.B.) Degree, was practically the only type of college course offered in the United States. Since that time there has been rapid expansion in American universities. Courses have been devised to meet almost every conceivable need. The College of Arts and Sciences remains, however, as the nucleus which uni-

lies the whole. The objectives attained by the College of Arts and Sciences are varied. In the main, we may say that the primary purpose of the College of Arts and Sciences is to interpret that vast body of experience which has grown to its present vigor and stature through all the centuries of civilization, based on the theory that the younger generation can know the richness and fullness of life only by learning that which has been of sufficient worth to survive the selective processes of time. Coincidentally with the attainment of this primary purpose, the College of Arts and Sciences stands for breadth of training and depth of development. The value of such training is so clearly recognized by those who are successful in many professions that it is a prerequisite of those who wish to enter upon their professional studies.

The College of Arts and Sciences offers curricula leading to the degrees Bachelor of Arts, Bachelor of Sciences, and in combination with the College of Law, to the degrees Bachelor of Arts and Bachelor of Laws, and to the degrees Bachelor of Science and Bachelor of Laws. The College of Arts and Sciences also offers pre-medical and pre-dental courses fitting students for admission to professional schools.

COLLEGE OF AGRICULTURE

The College of Agriculture is rotating the courses offered in summer so that in a succession of three or more years all studies of greatest interest will have been given.

Graduate students interested in agriculture will find these courses profitable. Undergraduates may take them for college credit.

Mature students who have not completed entrance requirements may, on the approval of the Dean and Director of the Summer Session, enroll as Adult Specials for the practical value of the information gained in courses desired, provided all other requirements of the Summer Session are met.

COLLEGE OF ENGINEERING

There have been so many requests for Summer Session courses in subjects under the College of Engineering that it is desirable to know what is the demand for such courses in the Summer Session of 1933 that provision may be made for them if it is warranted. Those interested should communicate directly with the Dean of the College of Engineering.

In connection with the Summer Session of 1932 members of the faculty of the College of Engineering will give correspondence courses in subjects listed with the correspondence department of the General Extension Division, University of Florida.

COLLEGE OF LAW

Since 1909, when established, the purpose of the College of Law has been to impart a thorough, scientific, and practical knowledge of law and thus to equip students to take advantage of the opportunities in this field. Since 1927, the College has operated during the summer session, the requirements and standards of the regular session being maintained. Courses offered

during the regular session are rotated. Courses not given during the regular session are taught in the Summer Session, thus extending and enriching the field of law instruction. The variety of courses is sufficient to enable students of different types to carry a full load.

The courses offered, all counting towards a degree, appeal to a wide range of students, saving them time and money. Those who have never studied law are given suitable instruction. Advanced students may hasten the time of their graduation. Practicing attorneys may review basic subjects and familiarize themselves with new ones. Students in other fields who desire a knowledge of the law applicable thereto may carry one or more law courses in conjunction with their other studies.

COLLEGE OF COMMERCE AND JOURNALISM

The College of Commerce and Journalism will operate during the Summer Session as during the regular session. The courses offered will appeal to two different types of students: First, to students attending the regular session who wish to return during the summer session; and second, to teachers and others who wish to take courses to prepare for the teaching of commercial subjects in high schools or to prepare for the teaching of the social sciences.

The attention of undergraduates preparing for commercial teacher-training is called especially to the following courses: Bs. 83—Office Management and Typing; and Bs. 85-86—Shorthand; Bs. 211-212—Principles of Accounting.

The College of Commerce and Journalism offers two graduate courses during the Summer Session: Bs. 507E.—Seminar in the Theories of Economic Reform and Bs. 529E.—Principles of Government Finance. Graduate students may also take Bs. 302E and Bs. 321E as minors.

SCHOOL OF ARCHITECTURE AND ALLIED ARTS

The School of Architecture and Allied Arts is a division of the University offering curricula leading to the degrees of Bachelor of Science in Architecture and Bachelor of Fine Arts. Courses in this division will be offered in the Summer Session for the benefit of students who wish to make up deficiencies in their regular work and for those who are interested in increasing their knowledge of Architecture, Painting, Drawing, and the various allied arts and crafts. By special arrangement, these courses may be taken without University credit by qualified individuals who do not desire to matriculate in the University.

DEPARTMENTS OF INSTRUCTION*

ARCHITECTURE, PAINTING, AND ALLIED ARTS

In addition to the University registration fee, in the following courses there is a fee of \$5 for each semester hour of credit. Students who desire to take these courses without credit are not required to pay the University registration fee.

Ae. 101.—Architectural Design. 1:00-5:00. M. T. W. Th. F. P-301. 3 credits. STAGEBERG.

The beginning course in architecture. Small problems in design using only the wall, roof, pier and beam as structural elements. Simple decorative elements. Lectures on composition.

Ae. 121-122.—Freehand Drawing. 8:00-12:00. T. Th. P-300. 2 credits. STAGEBERG.

Freehand perspective, outdoor sketching in pencil, and charcoal drawing from casts. Either Ae. 121 or Ae. 122 may be completed in one summer session.

Ae. 201.—Architectural Design. 1:00-5:00. M. W. F. P-301. 2 credits. STAGEBERG.

First semester sophomore architectural design. Minor buildings in plan, elevation, section and details.

Prerequisite: Ae. 102.

Ae. 221-222.—Freehand Drawing. 8:00-12:00. T. Th. P-300. 2 credits. STAGEBERG.

Outdoor sketching and still life drawing in any approved medium. Either Ae. 221 or Ae. 222 may be completed in one summer session.

Prerequisite: Ae. 122.

Ae. 225-226.—Elementary Water Color. 8:00-12:00. T. Th. P-300. 2 credits. STAGEBERG.

Color theory and methods of applying water color. Still life and simple landscapes. Either Ae. 225 or Ae. 226 may be completed in one summer session.

Other courses in Architecture as described in the General Bulletin may be offered by special arrangement with the Director of the School of Architecture and Allied Arts.

Pg. 100.—Manual Arts. 1:00-5:00. T. Th. P-300. 2 credits. STAGEBERG.

A special course of interest to summer school students. Linoleum block cutting, cane weaving, Benda masks, papier mache and similar crafts. Students may specialize in any one of these subjects, or may undertake one problem in each.

Pg. 115.—Poster Design. 1:00-5:00. T. Th. P-300. 2 credits. STAGEBERG.

Analysis of the essentials of a good poster. Methods of handling tempera color and other mediums. Poster lettering; practical designing of posters for all uses.

Pg. 117.—Advertising Design. 1:00-5:00. T. Th. P-300. 2 credits. STAGEBERG.

Designing of original advertisements and a study of the methods and mediums employed in making drawings for reproduction. A major part of the work will be in pen and ink and dry brush.

*For abbreviations see page 197.

BIOLOGY

- Bly. 101.**—Principles of Animal Biology. 10:00. M. T. W. Th. S-111.
Laboratory 2:00-5:00 M. T. W. S-106. 5 credits. GIOVANNOLI.
- Bly. 104.**—Comparative Vertebrate Anatomy. 8:00. M. T. W. Th. S-111. Laboratory 2:00-5:00. M. T. W. Th. S-107. 5 credits. GIOVANNOLI.
- Bly. 112.**—The Natural History of the Gainesville Area. 8:00. M. T. W. Th. S-111. Field work or laboratory, 2:00-6:00. Th. F. 5 credits. GIOVANNOLI.
- Each course will require a \$5 breakage ticket.

BUSINESS ADMINISTRATION AND ECONOMICS†

- Bs. 83.**—Office Management and Typing. Two lecture hours to be arranged. Laboratory 2:00-4:00. M. T. W. Th. Bu-103. 2 credits. SCAGLIONE.
Instruction in office organization and office function; practical use of modern office appliances; filing. Instruction in typing.
Laboratory fee: \$15.
- Bs. 85-86.**—Shorthand. Daily at 9:00. Bu-103. 4 credits. SCAGLIONE.
Proficiency in the practical use of shorthand.
Fee: \$5.
- Bs. 101E.**—Economic History of England. Daily at 8:00. Bu-101. 3 credits. SCAGLIONE.
A survey of economic history; the evolution of capitalistic economy in England; the origin and development of the wage system; the Industrial Revolution; the growth of British trade; the relation of economic development to political policy; and the effect of England's industrial progress on the United States.
- Bs. 102E.**—Economic History of the United States. Daily at 9:00. L-204. 3 credits. MATHERLY.
The industrial development of America, the exploitation of natural resources; the history of manufacturing, banking, trade, transportation, etc.; the evolution of industrial centers; the historical factors contributing to the growth of the United States.
- Bs. 201E.**—Principles of Economics. Daily at 11:00. L-201. 3 credits. WARD.
A general understanding of present day economic organization; brief analysis of production, distribution, and consumption.
- Bs. 202E.**—Principles of Economics. Daily at 9:00. L-314. 3 credits. M. D. ANDERSON.
Continuation of Bs. 201E. With permission of the instructor, students may take this course together with Bs. 201E.
- Bs. 211-212.**—Principles of Accounting. Daily at 8-10. L-201. 6 credits. WARD.
Lectures, problems, and laboratory practice. Bs. 211 will be completed the first four weeks; and Bs. 212, the second four weeks.
Laboratory fee: \$1 for each semester hour.

*Either 101 or 112 will be offered.

†Courses marked E are courses in Economics.

Bs. 302E.—Elements of Statistics. Daily at 8:00. L-314. 3 credits.

M. D. ANDERSON.

An introduction to statistics; brief consideration of statistical theory; collection, classification and presentation of economic data; construction of graphs and charts; study of index numbers; and problems of statistical research.

Bs. 321E.—Financial Organization of Society. Daily at 11:00. L-211. 3 credits. MATHERLY.

An introduction to the field of finance. Consideration of the pecuniary organization of society, of the functions performed by financial institutions, and of the relationship between finance and business administration.

Prerequisite: Bs. 201E and 202E.

Bs. 407E.—Theories of Economic Reform. Daily at 11:00. L-314. 3 credits. M. D. ANDERSON.

Critical analysis of systems of economic theory; establishment of criteria of economic fallacy; application of these criteria to various types of present-day economic reform.

Bs. 429E.—Principles of Government Finance. Daily at 8:00. L-204. 3 credits. MATHERLY.

Principles governing expenditures of modern governments; sources of revenue; public credit; principles and methods of taxation and of financial administration as revealed in the fiscal systems of leading countries.

Prerequisite: Bs. 201E and 202E.

Bs. 507E.—Seminar in the Theories of Economic Reform. Daily at 11:00. L-314. 3 credits. M. D. ANDERSON.

Advanced economic theory; various systems of economic theory; attempt is made to establish criteria of economic fallacy; application of these criteria to the various types of present day economic reform.

Bs. 529E.—Problems in Government Finance. (To be arranged.) 3 credits. MATHERLY.

Special studies in federal, state, and local taxation.

CHEMISTRY

Cy. 101.—General Chemistry. Daily at 9:00. C-212. Laboratory and recitation 1:00-5:00. T. Th. C-130. 5 credits. LEIGH.

The fundamental laws and theories of chemistry, and the preparation and properties of the common non-metallic elements and their compounds. No credit toward a degree will be allowed until credit in Cy. 102, 104 or 110 is earned.

Laboratory fee: \$5.

Cy. 102.—General Chemistry, continued. Daily at 8:00. C-212. Laboratory and recitation 1:00-5:00. T. Th. C-130. 5 credits. POLLARD.

Most of the time is devoted to a study of the metallic elements and their compounds.

Laboratory fee: \$5.

Cy. 232.—Elementary Physical Chemistry. Daily at 10:00. C-216. Laboratory hours to be arranged. 4 credits. POLLARD.

A study of the gaseous, liquid and solid states of matter, the properties of solutions, and colloids.

Prerequisite: General Chemistry.

Laboratory fee: \$5.

Cy. 305.—Quantitative Analysis. 11:00. M. T. Th. F. C-110. Laboratory hours to be arranged. 5 credits. POLLARD.

The fundamental principles of gravimetric and volumetric analysis. The laboratory work may be varied somewhat to fit the needs of individual students.

Prerequisite: Cy. 104, Cy. 106, or Cy. 203.

Laboratory fee: \$5.

Cy. 361.—Organic Chemistry. Daily 11:00. C-212. Laboratory hours to be arranged. 5 credits. LEIGH.

A study of the preparation and properties of various aliphatic compounds. No credit toward a degree will be allowed until Cy. 362 is completed.

Prerequisite: Cy. 102, Cy. 203, or Cy. 232.

Laboratory fee: \$5.

Cy. 504.—Inorganic Preparations. Hours and room to be arranged. 3 credits. LEIGH.

Laboratory work involving the preparation of a number of typical inorganic compounds in addition to collateral reading and discussions. A reading knowledge of French and German desired.

Laboratory fee: \$5.

Cy. 508.—Synthesis and Structure of Organic Compounds. 3 hours. 3 credits. To be arranged. POLLARD.

A study of fundamental reactions for synthesizing organic compounds and proving their structures.

Cy. 551.—Chemical Research. Required of graduate students majoring in chemistry. LEIGH AND POLLARD.

Note: In addition to the above courses listed in chemistry other courses may be given upon petition of five or more students.

ECONOMICS

Courses in Economics are scheduled under Business Administration and are marked E.

EDUCATION

Every student who applies for extension of certificate must register for one course in Education, or for Philosophy 201.

En. 101.—How to Teach. 3 credits. Six sections:

Section 1. Designed for those who have never taught. Daily at 10:00. P-112. WISE.

Section 2. Designed for those who have never taught. Daily at 12:00. P-201. WISE.

Section 3. Daily at 9:00. P-206. W. A. LITTLE.

Section 4. Daily at 11:00. P-7. SMITH.

Section 5. Daily at 8:00. P-206. W. A. LITTLE.

Section 6. Daily at 10:00. P-206. SMITH.

Introduction to the study of classroom teaching.

En. 102.—History and Principles of Education. Daily at 11:00. P-206. 3 credits. W. A. LITTLE.

A study of the historical background of education, and of the fundamental principles which should guide educational procedure and give appreciation of educational conditions of today.

En. 103.—Health Education. 3 credits. Three sections:

Section 1. For teachers in primary and middle elementary grades. Daily at 9:00. A-303. SHAW.

Section 2. Same as Section 1. Daily at 11:00. A-303. SHAW.

Section 3. For principals and teachers not included in Sections 1 and 2. Daily at 12:00. A-303. SHAW.

Conditions and forces that affect the physical and mental vigor of children, youth and teachers, and relate the school to the health of the home and community; the teacher's health; sanitation of school buildings; hygienic equipment; common diseases and physical defects; mental hygiene; play and recreation; community hygiene; teaching of health education in elementary and high schools; the Florida health program.

En. 121.—Primary Methods. 3 credits. Three sections:

Section 1. For teachers of the First Grade. Daily at 9:00. P-2. SMART.

Section 2. For teachers of the first three grades. Daily at 11:00. P-2. SMART.

Section 3. The same as Section 2. Daily at 8:00. P-2. SMART.

Arithmetic, Language, Writing and Spelling in the first three grades.

Prerequisites or parallel courses: En. 101, En. 207, or any methods course.

En. 122.—The Teaching of Reading and Literature in the First Six Grades. 3 credits. Three sections:

Section 1. Mechanics of reading as a tool study. Daily at 9:00. P-4. CARTER.

Section 2. The same as Section 1. Daily at 11:00. P-4. CARTER.

Section 3. Designed for teachers of the middle elementary grades. Daily at 12:00. P-4. CARTER.

The basic importance of reading in the elementary school, reading as a tool study, the various methods of teaching, reading, etc., will constitute the course. Methods of teaching phonics, appreciation, memorization and dramatization will be presented. Observation of demonstration lessons and criticisms will be required.

Prerequisite or parallel courses: En. 101 or En. 207.

En. 123.—Handwork for Elementary Grades. 2 credits. Three sections:

Section 1. Designed for teachers of the early elementary grades. 2:00. M. T. W. Th. F. A-103. NORTON.

Section 2. Designed for teachers of the early elementary grades. 11:00. M. T. W. Th. F. A-103. NORTON.

Section 3. Designed for teachers of the upper elementary grades. 3:00. M. T. W. Th. F. A-103. NORTON.

The purpose of the course is to develop the real function of handwork in the elementary grades. The various types of handwork will be emphasized, such as, paper cutting, free hand drawing, clay modeling, etc.

Laboratory fee: \$1.

En. 203.—Child and Adolescent Psychology. 3 credits. Two sections:

Section 1. Daily at 8:00. S-101. LANCASTER.

Section 2. Daily at 11:00. S-101. LANCASTER.

The nature, growth and development of the child from birth to adolescence with reference to Education.

En. 207.—Educational Psychology. 3 credits. Two sections:

Section 1. Daily at 9:00. P-101. **TOLBERT.**

Section 2. Daily at 11:00. L-204. **W. H. WILSON.**

Psychology applied to Education, the learning process, acquisition of skill, etc.

En. 253.—Directed Observation for Teachers of the Elementary Grades. 3:00 M. T., W. Th. F. High School Building. 2 credits. **STORIE.**

Not open to students who have had **En. 405.**

En. 308.—The Public School Curriculum. Daily at 10:00. P-101. 3 credits. **SMITH.**

The curriculum as a group of related problems and projects of vital interest to children. An attempt to formulate a curriculum based on social conditions and social needs.

En. 311.—Materials and Methods in English. 8:00 M. T. Th. F. P-112. 2 credits. **WISE.**

Open to juniors and seniors who have not had **En. 301.**

[**En. 312.—Materials and Methods in Foreign Languages.** 2 credits. Not offered in 1932.]

En. 317.—Tests and Measurements. Daily at 8:00. P-208. 3 credits. **CRAGO.**

An elementary course designed to aid the teacher in the use of tests in the improvement of instruction and in the solution of school problems. One hour of laboratory work per week is required.

Laboratory fee: \$1.50.

En. 341.—Materials and Methods in History. 3:00 M. T. Th. F. P-206. 2 credits.

Open to juniors and seniors who have not had **En. 301.**

En. 371.—Materials and Methods in Science. 2:00 M. T. Th. F. P-112. 2 credits. **W. W. LITTLE.**

Open to juniors and seniors who have not had **En. 301.**

En. 372.—Materials and Methods in Mathematics. 2:00 M. T. Th. F. L-204. 2 credits. **W. H. WILSON.**

[**En. 391.—Materials and Methods in Commercial Education.** 3 credits. Not offered in 1932.]

The scope of commercial education; the development of commercial education; present and probable future needs; organization and administration; analyses of raw materials or students; curriculum construction; commercial teacher training; the teaching of commercial and economic subjects.]

En. 401.—Public School Administration. Daily at 9:00. P-201. 3 credits. **SIMMONS.**

Problems peculiar to Florida schools stressed in a practical way.

En. 403.—The Problem-Project Method. Daily at 11:00. P-205. 3 credits. **NORMAN.**

The laws of learning, lesson-planning, thinking, questioning, the problem-project method, the socialized recitation, democracy in the classroom as a preparation for democracy in life.

En. 405.—Supervised Teaching. 3 credits. Three sections:

Section 1. Designed for teachers of the first grade. Hours to be arranged. High School Building.

Prerequisite: **En. 121.**

Section 2. Designed for teachers of the second and third grades. Hours to be arranged. High School Building.
METCALFE.

Prerequisite: **En. 122.**

Section 3. Designed for teachers of the fourth, fifth and sixth grades. Hours to be arranged. High School Building.
UPSON.

Practice in conducting recitations under close supervision.

Prerequisite: **En. 122.**

For additional conditions prerequisite to **En. 405**, see statement following **En. 465S**. The 12-hour subject matter requirement is excepted.

[En. 406.—The Elementary School Principal. 3 credits. Not offered in 1932.

The problems that usually confront the elementary school principal will be stressed.]

En. 408.—High School Administration. Daily at 8:00. P-201. 3 credits. **W. W. LITTLE.**

Practical management and administration of the modern high school.

Prerequisite for all courses in Supervised Student Teaching: A general honor point average of 1; an honor point average in the subject to be taught of 1.5; and an honor point average in courses in Education of 1. Twelve semester hours work must have been completed in the subject to be taught, and in some subjects more will be required; educational psychology and a materials and methods course in the subject in which the student is to do the teaching must have been completed satisfactorily. Students now in residence must file application with the Director in charge before the end of the second semester of this year; others may file application by mail or during the registration period for the Summer Session. The College of Education reserves the right to reject applications for marked defects in character or personality or physical traits. Direct letters of inquiry to A. R. Mead, Peabody Hall, University of Florida.

En. 415S.—Supervised Teaching in English. Hours to be arranged. High School Building. 3 credits. **MEAD** and Supervising Teacher.

En. 425S.—Supervised Teaching in Foreign Languages. Hours to be arranged. High School Building. 3 credits. **MEAD** and Supervising Teacher.

En. 435S.—Supervised Teaching in Social Studies. Hours to be arranged. High School Building. 3 credits. **MEAD** and Supervising Teacher.

En. 455S.—Supervised Teaching in Science. Hours to be arranged. High School Building. 3 credits. **MEAD** and Supervising Teacher.

En. 465S.—Supervised Teaching in Mathematics. Hours to be arranged. High School Building. 3 credits. **MEAD** and Supervising Teacher.

En. 471S.—Physical Education, Its Place in the Curriculum. 8:00 M. T. W. Th. F. and one two hour discussion period to be arranged. P-4. 3 credits. SALT.

Prerequisites: En. 101, 103, 203.

Not open to major students in physical education nor to those having credit for HPI. 215 and HPI. 216 or HPI. 341.

Textbook: *Principles of Physical Education*, J. F. Williams.

En. 501.—The Elementary School Curriculum. Daily at 8:00. P-101. 3 credits. COOPER.

An intensive study of the development, and present content of the elementary school curriculum, including the kindergarten; the selection and evaluation of material.

En. 503S.—Educational Tests and Measurements. Seminar. 3:00-5:00 T. Th. P-101. 2 credits. COOPER.

This is an intensive study of intelligence and educational tests. It is recommended that En. 317 be taken before this course.

Laboratory fee: \$1.50.

En. 505S.—The Organization and Administration of Extra Curricular Activities in Junior and Senior High Schools. 11:00 M. T. W. Th. F. P-201. 2 credits. W. W. LITTLE.

An attempt will be made to work out constructive school policies having to do with the developing of the pupil's initiative, leadership, cooperation, etc.

En. 507.—Seminar in Educational Psychology. Daily at 10:00. P-208. 3 credits. CRAGO.

Students will be guided in the investigation of problems in directed learning, individual differences, and adjustment of problem children.

[**En. 509.—Problems in School Administration.** 3 credits. Not offered in 1932.

Open to graduate students who are qualified by experience and training to pursue advanced study on selected problems in administration. Special attention is given to school house planning.]

En. 512.—Methods and Materials in Vocational Agriculture. Daily at 9:00. P-208. 3 credits. GARRIS.

The selection and organization of subject matter from the vocational point of view. A continuation of En. 511.

[**En. 514.—Pre-Adolescent Psychology.** 2 credits. Not offered in 1932.

A study of the child covering the years from nine to thirteen. The growth, health, habits, mental and moral characteristics of the child in this stage of its development will be discussed. The course will bring out the meaning and social importance of adolescent growth and interests.]

En. 517.—Educational Statistics. 11:00 M. T. Th. F. P-101. 2 credits. COOPER.

The chief purpose of this course is to acquaint students with statistical methods as applied to education. It is recommended that this course be taken before En. 503.

En. 519.—High School Curriculum. Daily at 8:00. P-101. 3 credits. COOPER.

A comprehensive view of the basic principles in curriculum construction.

[**En. 521.—The Business Administration of a School System.** Daily at 12:00. H-207. 3 credits. Not offered in 1932.

Open to graduate students qualified by training and experience to pursue advanced work in this field. Each student selects some problem for special study and presents the results of this study in the form of a thesis.]

En. 527.—How to Write a Thesis. No credit. Four sections:

Section 1. 2:00 M. W. P-208. GARRIS.

Section 2. 2:00 T. Th. P-208. GARRIS.

Section 3. M. W. P-208. CRAGO.

Section 4. 3:00 T. Th. P-208. CRAGO.

Designed primarily to help graduate students in Education in writing their theses. Open to all graduate students. Required of all students majoring in Education.

En. 528.—Educational Supervision. Daily at 8:00. High School Building. 3 credits. MEAD.

A graduate course open to students who have had not less than 12 hours in Education and others by permission of instructor.

En. 562S.—Vocational Guidance. 11:00 M. T. W. F. P-208. 2 credits. GARRIS.

Guidance and counseling high-school students. Educational and vocational guidance and problems of personality adjustment.

ENGLISH

Eh. 21.—Minimum Essentials of English. Daily at 8:00. L-212. No credit. MOUNTS.

An elementary course in the fundamentals of grammar, punctuation and sentence construction, designed to meet the needs of freshmen deficient in preparatory English. For such deficient students this course is prerequisite to Eh. 101. Entry to the course will be determined by examinations to be given during the registration period.

Note: Required of all freshmen who, upon entering the University, are found deficient in minimum essentials of high school English.

Eh. 101.—Rhetoric and Composition. 3 credits. Six sections:

Section 1. Daily at 8:00. L-209. SPIVEY.

Section 2. Daily at 8:00. L-306. PRICE.

Section 3. Daily at 9:00. L-307. PRICE.

Section 4. Daily at 9:00. S-111. MOORE.

Section 5. Daily at 11:00. A-104. SPIVEY.

Section 6. Daily at 12:00. L-311. MOUNTS.

Designed to train students in methods of clear and forceful expression. Instruction is carried on simultaneously in formal rhetoric, in theme writing, and in corrective studies and exercises adapted to the needs of the individual student. In addition, all students are encouraged to read extensively for extra credit.

Note: All students expecting to take Eh. 101 must report at Language Hall, Room 210, at nine o'clock on the first morning of registration, Monday, June 13, to take the required Freshman English Placement Test. No student will be registered for Eh. 101 who has not taken the Placement Test.

Eh. 102.—Rhetoric and Composition. 3 credits. Four sections.

Section 1. Daily at 8:00. L-203. MOORE.

Section 2. Daily at 11:00. S-111. MOORE.

Section 3. Daily at 11:00. L-307. PRICE.

Section 4. Daily at 12:00. L-203. SPIVEY.

A continuation of Eh. 101, supplemented by the study and rhetorical analysis of models of good writing.

Eh. 103.—Introduction to Literature. Daily at 9:00. L-211. 2 credits. MOUNTS.

A survey of the literature of the western world from the beginnings to the Renaissance.

Eh. 201.—History of Literature. 3 credits. Two sections:

Section 1. Daily at 11:00. L-306. MORRIS.

Section 2. Daily at 12:00. L-209. MORRIS.

An outline course in the historical development of the English literature and language. Selections from important prose writers and poets; lectures on the history of the language and literature; a manual for reference; frequent reports from the individual students; constant use of the University Library.

Eh. 202.—History of Literature. Daily at 9:00. L-306. 3 credits. MORRIS.

A continuation of **Eh. 201**, completing the study of English literary history to the end of the eighteenth century.

Eh. 301.—Shakespeare. Daily at 11:00. L-210. 3 credits. FARR.

The life and earlier work, including the history, plays, romantic comedies and non-dramatic poetry. Three plays will be read in class. Written reviews on plays read outside the class will alternate with essays from the students and lectures by the instructor. This course is open to those who have had **Eh. 201** and **202** or equivalent work in English literature.

Eh. 302.—Shakespeare. Daily at 10:00. L-210. 3 credits. FARR.

Continuation of **Eh. 301** in which the later tragedies will be emphasized.

Eh. 306.—Historical Grammar. Daily at 9:00. L-210. 3 credits. FARR.

A course based on Lounsbury's "English Language" designed to give the student some knowledge of the historical development of the English language, with a view especially of giving insight into modern English grammar. (Not open to students who in former years took **Eh. 206**.)

Eh. 406.—Contemporary Drama. Daily at 11:00. L-212. 3 credits. ROBERTSON.

Beginning with the study of Whitman and his influence, this course treats such recent and contemporary poets as Emily Dickinson, Sidney Lanier, Moody, Markham, Millay, Lindsay, Sandburg, Frost and Robinson.

Eh. 409.—Chaucer. Daily at 9:00. L-212. 3 credits. ROBERTSON.

Extensive reading in the "Canterbury Tales"; study of Chaucer's language and verse; the historical background of his work; some attention to the "Troilus and Criseyde" and minor poems.

Eh. 501.—Anglo-Saxon. Daily at 8:00. L-210. 3 credits. ROBERTSON.

Anglo-Saxon grammar; reading of Alfredian prose.

Eh. 502.—Anglo-Saxon. Daily at 7:00 P.M. L-210. 3 credits. FARR.

Continuation of **Eh. 501**. The Beowulf.

ENTOMOLOGY

Ey. 201.—Economic Entomology. 9:00 M. T. W. Th. Laboratory 1:00-5:00. M. W. A-305. 4 credits. CREIGHTON.

An introduction to applied entomology, based on the structure, life histories, habits and control of injurious insects.

May be used as a substitute for **Ey. 302** which is required of all students registered for a degree in the College of Agriculture.

Laboratory fee: \$2.

Ey. 305.—Problems in Entomology. Hours and credit to be arranged. CREIGHTON.

Field and laboratory problem work in the rearing of some of the more common Florida insects. Study of natural parasites; including special laboratory technique required in this work.

Ey. 511.—Thesis Research.

For graduate students majoring in Economic Entomology.

FRENCH

Fh. 21.—Elementary French. Daily at 8:00. L-311. 3 credits. ATKIN.

The first semester of the course in beginning French. Pronunciation; elements of grammar; reading of simple prose.

Note: Credit is not given for Fh. 21 until Fh. 22 is completed.

Fh. 22.—Elementary French. Daily at 11:00. L-311. 3 credits. BRUNET.

The second semester of the course in beginning French.

Prerequisite: One semester of college French, or one year of high school French.

[Fh. 101.—Third Semester French. Not given in summer of 1932.]

Fh. 102.—Fourth Semester French. Daily at 8:00. L-307. 3 credits.

BRUNET.

The second semester of second-year college French. Reading, oral, and written exercises.

Prerequisite: Fh. 101, or one and a half years of college French, or three years of high school French.

Fh. 303.—Nineteenth-Century French Literature (First Half). Daily at 9:00. L-311. 3 credits. ATKIN.

Leading authors of the period studied in representative works; literary movements and tendencies.

Prerequisite: Three years of college French, or the equivalent in high school and college French combined.

[Fh. 304.—Nineteenth-Century French Literature (Second Half). Not given in summer of 1932.]

[Fh. 511.—Teachers' Course in French. Not given in summer of 1932.]

Fh. 515.—French Literature of the Renaissance. 10:00 M. T. Th. F. S. L-311. 3 credits. ATKIN.

Selections from outstanding authors of the period; literary movements and tendencies; an anthology of sixteenth-century French literature is used as the principal text. Presupposes the ability to read French easily.

GENERAL NATURAL SCIENCE

Gl. 101.—General Natural Science. 4 credits. Three sections:

Section 1. Daily at 8:00. C-112. Conference hours to be arranged. HEATH.

Section 2. DAILY at 9:00. C-112. Conference hours to be arranged. HEATH.

Section 3. Daily at 10:00. C-112. Conference hours to be arranged. BLACK.

Laboratory section A. M. W. 2:00-4:00. C-130.

Laboratory section B. M. W. 4:00-6:00. C-130.

Laboratory section C. T. Th. 10:00-12:00. C-130.

An introductory course in the physical sciences, emphasizing the relationships between the various sciences and the importance of the scientific method. Particularly valuable for teachers in elementary and high schools.

Laboratory fee: \$3.

Gl. 102.—General Natural Science. 4 credits. Daily at 9:00. S-101.
Conference hours to be arranged. BLACK.

Laboratory section A. T. Th. 11:00-1:00. S-107.

Laboratory section B. T. Th. 2:00-4:00. S-107.

Laboratory section C. T. Th. 4:00-6:00. S-107.

An introductory course in the biological sciences.

Laboratory fee: \$3.

HANDWRITING

Hg. 101.—Handwriting. Daily at 4:00. S-401. NEIGHBORS.

Students enrolling for this course will have an opportunity not only to improve their own handwriting, but to learn by instruction and demonstration the correct presentation of Handwriting in all grades of the elementary schools. The value of measuring diagnostic and remedial teaching will be emphasized. The State adopted text, *Progressive Handwriting*, will be used.

Fee: \$2.

HEALTH AND PHYSICAL EDUCATION

HPl. 101.—Football. 2:00 M. T. W. Th. F. Lab. to be arranged. Basketball Court. 2 credits. HOLSINGER.

Lectures, discussions, demonstrations and practice on the field. Lectures are followed by actual demonstrations by the instructor, and students then put into practice the various fundamentals taught them. Course stresses individual play and its relation to team play. Students are thoroughly drilled in offensive and defensive tactics, each position on the team being analyzed. Fundamentals, such as falling on the ball correctly, blocking and tackling, passing and kicking receive special attention.

HPl. 111.—Basketball. 11:00 M. T. W. Th. F. Lab. to be arranged. Basketball Court. 2 credits. HOLSINGER.

Lectures, discussions and demonstrations on the basketball court. A complete study is made of the game of basketball from an offensive and defensive point of view. The play of the individual is stressed. Fundamentals such as passing, dribbling, shooting, stops and pivots, are given special emphasis. Analysis is made of the systems of play used by leading coaches of the country.

HPl. 115-116.—Plays and Games for Grades 1 through 8. Lecture 2:00 M. W. F. P-7. 2 credits.

Laboratory Section 1. Tu. 2:00-4:00 Gymnasium. Women.

.....
Laboratory Section 2. Th. 2:00-4:00 Gymnasium. Men.

.....
Self-testing activities, games, plays, rhythmic activities, and team games will be taken up from the teaching standpoint.

Fee: \$1.

HPl. 214S.—Theory and Practice of Natural Activities. 1 credit.
Two sections:

Section 1. For Women, 10:00 M. T. W. Th. Gymnasium.

.....
Section 2. For Men, 10:00 M. T. W. Th. Basketball Gymnasium. SALT.

The organization, promotion, and participation in the following: playground ball, volley ball, handball, speedball, tennis, swimming, basketball, badminton, etc. This is an activities course and the student must provide a suitable gymnasium costume.

Fee: \$1.50.

HPl. 221.—Rhythmic Activities. 3:00 M. W. F. Gymnasium. 1 credit.

An activities course in athletic, elog, tap and rhythmic dancing, adapted for use in physical education classes. Open to men and women students. This course is elementary in nature and no previous experience is necessary.

Fee: \$1.50.

HPl. 312S.—Organization and Administration of Health and Physical Education. 9:00 M. T. W. Th. F. P-112, also one two hour discussion period to be arranged. 3 credits. SALT.

Prerequisite: Principles of Physical Education or registration in the course.

The organization and administration of Health and Physical Education in the public schools from the standpoint of a physical education teacher and director. Open to men and women students.

HPl. 311.—Principles of Physical Education. 8:00 M. T. W. Th. F. and one two hour discussion period to be arranged. P-205. 3 credits. SALT.

A consideration of the fundamental principles upon which the present day philosophy of physical education is based. A study of the history, aims, objectives, and contemporary trends in this field. This course should be completed as soon as possible by those students majoring or teaching in this field. Open to men and women students. Not open to those having credit for HPl. 215-216 or En. 471.

HPl. 351.—Organization and Administration of the Intramural Program. 1:00 M. T. W. Th. F. Laboratory to be arranged. Basketball court. 2 credits. HOLSINGER.

This course will consider the aims and objectives underlying the subject of intra-scholastic and intra-collegiate athletics. Various types, methods, plans, arrangements and officiating techniques will be discussed in the light of contemporary practice and from the viewpoint of the school director.

HISTORY

NOTE: Courses in History are year courses and both semesters must be completed before final credit is given.

Hy. 101.—Europe During the Middle Ages. 3 credits. Two sections:

Section 1. Daily at 12:00. L-5. PAYNE.

Section 2. Daily at 11:00. L-109. GLUNT.

The development of Western Europe from the Teutonic Migrations to the First Crusade.

Hy. 102.—Europe During the Middle Ages. 3 credits. Two sections:

Section 1. Daily at 11:00. L-5. PAYNE.

Section 2. Daily at 12:00. L-109. GLUNT.

Western Europe from the Crusades to the Reformation. A continuation of Hy. 101.

Note: Hy. 101 and 102 is a prerequisite for all advanced work in History.

Hy. 204.—Latin-American History. Daily at 10:00. L-5. 3 credits. GLUNT.

This course covers the second semester's work in Hy. 203-204.

Hy. 301.—American History 1492 to 1783. Daily at 8:00. L-109. 3 credits. LEAKE.

This course covers the first semester's work in Hy. 301-302.

Hy. 303.—American History 1830 to 1876. Daily at 9:00. L-109. 3 credits. LEAKE.

This course covers the first semester's work in Hy. 303-301.

Hy. 305.—English History. Daily at 9:00. L-5. 3 credits. PAYNE.

This course covers the first semester's work in **Hy. 305-306.**

Hy. 509.—Seminar in American History. 10:00 M. T. Th. F. and S.
L-109. 3 credits. LEAKE.

LANDSCAPE DESIGN

Le. 209.—Planting for Home Grounds. 10:00 M. W. F. Laboratory
10:00-12:00 T. Th. S. 3 credits. BURRITT.

A study of design and arrangement of plant materials, both wild and cultivated, suited to the average Florida home in city, rural, and suburban areas, with simple planting plans.

Le. 305.—Appreciation Course in Landscape Design. Daily at 9:00.
A-206. 3 credits. BURRITT.

A review of the principles of Landscape Design, with especial reference to their application at the present day as well as in the past.

LATIN

Ln. 401.—Plautus and Terence. Daily at 11:00. L-111. 3 credits. J. N.
ANDERSON.

Selected Comedies.

Ln. 509.—The Roman Comedy. Daily at 11:00. Additional hours to
be arranged. L-311. 3 credits. J. N. ANDERSON.

Selected Comedies.

LAW

Lw. 305S-307S.—Criminal Law and Procedure. 10:00 M. T. Th. F. S.,
9:00 W. Law-204. 3 credits. COCKRELL.

Lw. 311.—School Law. 9:00 M. T. Th. F. Law-105. 2 credits.
TRUSLER.

Lw. 402.—Evidence. Daily from 11:00 to 12:15. Law-204. 4 credits.
TESELLE.

Lw. 408S.—Legal Ethics. 11:00 to 12:15 T. Th. S. Law-105. 2 cred-
its. TRUSLER.

Lw. 412.—Florida Civil Practice. Daily at 8:00. Law-204. 3 credits.
COCKRELL.

Lw. 419.—Air Law. 9:00 M. T. Th. F. Law-204. 2 credits. TESELLE.

Lw. 502.—Damages. 11:00 to 12:15 M. W. F. Law-105. 2 credits.
TRUSLER.

Lw. 523.—Taxation. Daily at 8:00. Law-105. 3 credits. SLAGLE.

Lw. 525.—Trade Regulations. 10:00 M. T. Th. F. S., 9:00 W. Law-105.
3 credits. SLAGLE.

LIBRARY SCIENCE

The adoption of standards for High School Libraries by the Southern Association has created the demand for a large number of school libraries. The consensus of opinion seems to be that if this demand is to be met, Library Science courses will have to be given by a certain number of colleges

and universities in addition to the regular accredited library schools. It is impossible to repeat all courses each summer but the foundation courses are repeated when necessary and supplementary courses and electives are offered each year. Practice work is given in the University Library under the supervision of the University Library Staff. Education 203 is recommended as an elective for all students majoring in Library Science.

The entrance requirement for all students is the completion of sixty credit hours of college or university work. No others will be admitted to any of the Library Science courses except by special permission. A transcript of work done must be sent to the Registrar of the University and approved by him before registration. It is important that this be done before the opening of the Summer Session.

[Ly. 101.—Cataloging I. 3 credits. Not offered in summer of 1932.

A study of the principles and methods of the simpler forms of cataloging. Two hours supervised practice work will follow each lecture. The cards will be revised and form a sample catalog for the use of the student.

Laboratory fee: \$1.50.]

[Ly. 102.—Classification I. 2 credits. Not offered in summer of 1932.

The Dewey Decimal system is used as the basis of the instruction. The study of book numbers is included. Problems will be given with each lecture.]

Ly. 103.—Library Economy. 9:00 M. T. Th. S. P-5. 2 credits.

COUNTS.

This course includes the general routine of adding books to the library with instruction in order work, accessioning, mechanical preparation and care of books and the checking of periodicals. Simple charging systems and various circulation records will be studied.

Ly. 104.—Book Selection I. Daily at 8:00. P-5. 3 credits.

This course includes lectures covering the general principles of book selection, with the needs of the high school library particularly in view, the examination and discussion of selected books in the various fields of literature and the writing of annotations. Problems involving the use of standard guides to book selection and reading lists will be required of each student. As a final project the class will make up a list of books for a school library.

Laboratory fee: \$1.50.

Ly. 201.—History of Books. 9:00 W. F. P-5. 1 credit.

History of books from the beginning. The invention of printing, book binding, and allied subjects.

Ly. 202.—Reference I. Daily at 10:00. P-5. 3 credits. COUNTS.

A study of important reference books and their value and use. This includes encyclopedias, dictionaries, periodical indexes, and other reference books.

Laboratory fee: \$1.50.

Ly. 203.—Bibliography. 12:00 M. T. Th. S. P-5. 2 credits. COUNTS.

Subject and trade bibliography which includes the making and use of various reading lists.

[Ly. 204.—Children's Literature. 3 credits. Not offered in summer of 1932.

A study of children's literature and a study of children's reading interests.

Laboratory fee: \$1.50.]

Ly. 205.—Teaching Use of Library. 11:00 M. F. P-5. 1 credit.

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A study of the purpose and place of the library in the school, including the organization of a course of lessons for teaching the use of the library.

Ly. 301.—School Libraries. 11:00 M. W. Th. S. P-5. 2 credits.

A study of the functions of the school library in the modern school organization and its relation to the public library and the community.

Ly. 304.—Cataloging II. Daily at 2:00. P-5. 3 credits. RUFFIN.

This course continues Ly. 101. Two hours of laboratory work required with each lecture. Cataloging I is a prerequisite.

Ly. 305.—Practice Work. Hours to be arranged. 2 credits. UNIVERSITY LIBRARY STAFF.

Practice work will be given in the University Library.

MATHEMATICS

The following courses will be given in successive summers in the order in which they appear in the list, the first being given in 1932:

Ms. 331.—College Geometry.

Ms. 536.—The Foundations of Geometry.

Ms. 534.—Projective Geometry.

Before registration in any course, the student should ascertain the prerequisites.

Ms. 85.—Plane Trigonometry and Logarithms. Daily at 9:00. B-210. 3 credits. DAVIS.

Functions of angles; the solution of triangles; logarithms and their applications; trigonometric analysis.

Textbook: Simpson, *Plane Trigonometry and Logarithms*.

Ms. 101.—College Algebra. Daily at 8:00. M-202. 3 credits. KOKOMOOR.

The quadratic equation, proportion, progressions, the binomial theorem, functions, graphs, theory of equations, permutations, combinations, probability and determinants.

Textbook: Harding and Mullins, *College Algebra*.

Ms. 102.—Plane Analytic Geometry. Daily at 11:00. P-102. 3 credits. SIMPSON.

The algebraic study of the figures of geometry and the plane sections of a cone.

Textbook: Curtiss and Moulton, *Analytic Geometry*.

Ms. 251.—Differential Calculus. Daily at 8:00. P-102. 3 credits. SIMPSON.

The study of differentiation, which, with its numerous and widely different applications, constitutes one of the most important practical and theoretical fields of mathematics.

Textbook: March and Wolff, *Calculus*.

Note: No credit toward a degree is allowed until Ms. 252 is completed.

Ms. 252.—Integral Calculus. Daily at 8:00. B-210. 3 credits. DAVIS.

Integration, the inverse operation of differentiation, is used in the calculation of areas, volumes, moments of inertia, and many other problems.

Textbook: March and Wolff, *Calculus*.

Ms. 302.—Solid Analytic Geometry. Daily at 11:00. M-202. 3 credits. KOKOMOOR.

The application of analytic geometry to space figures, including the study of the plane, straight line, cylinders, cones, spheres, surfaces of revolution and quadric surfaces.

Textbook: Osgood and Graustein, *Plane and Solid Analytic Geometry*.

Ms. 331.—College Geometry. Daily at 9:00. M-202. 3 credits. KOKO-MOOR.

The use of elementary methods in the advanced study of the triangle, other polygons, and the circle. Special emphasis on solving original exercises. Valuable to prospective high school geometry teachers.

Textbook: Altshiller-Court, *College Geometry*.

Ms. 351 and 352.—Advanced Calculus. Daily at 11:00. B-210. 2 or 4 credits. DAVIS.

A further study of the calculus, the treatment of more advanced topics, and the use of analytic geometry of three dimensions. The class is so conducted that students may obtain credit in one or both courses, but those who expect credit in both are permitted to elect only one other subject.

No credit toward a degree will be allowed until the four credits have been earned.

Textbook: March and Wolff, *Calculus*.

Ms. 500.—Seminar in Mathematics. Daily at 9:00. P-102. 3 credits.

SIMPSON.

Students electing this course must have had enough advanced work to be able to do independent study in some particular field. The work is planned with the assistance of the instructor, and such conferences are held as are needed to supervise and keep record of the progress made. A consultation should be arranged with the instructor before registering for the course.

MUSIC

Msc. 103.—Materials and Methods for Grades I, II and III. 2 credits.

Two sections:

Section 1. 9:00 M. T. W. Th. F. C-110. PORTER.

Section 2. 4:00 M. T. W. Th. F. C-110. PORTER.

Study of the child voice; rote songs, the toy symphony, art and rhythm songs; sight singing from rote to note; oral and written dictation; appreciation.

Msc. 104.—Materials and Methods for Grades IV, V and VI. 8:00 M.

T. W. Th. C-110. 2 credits. PORTER.

Development of sight singing; ear training, oral and written dictation; part singing; appreciation.

Msc. 105.—Materials and Methods for Junior and Senior High Schools.

10:00 M. T. Th. F. S. C-110. 2 credits. PORTER.

Sight singing; study of the changing voice; beginning harmony; appreciation.

Msc. 301.—Glee Club. Technique of Ensemble Singing. 5:00 or 7:00

M. T. Th. F. Stage of Auditorium. 1 credit. DEBRUYN.

Fee: \$1.

Voice.—Private lessons in voice. Hours to be arranged with the Instructor. Two scholarships in voice will be given. Two lessons per week unless otherwise arranged.

Course I.—Theory of Voice Building. Stage of Auditorium. 1 credit.

WORTH.

Breathing, tone placing, simple songs.

Course II.—For Advanced Students. Stage of Auditorium. 1 credit.

WORTH.

A continuation of Course I. Students registering in this course will be expected to appear in the opera at the close of the term.

Opera Course I.—1 credit. WORTH.

NURSING EDUCATION

Ng. 103.—Home Nursing. 10:00 M. F. and 2:00-4:00 T. Th. A-304. 2 credits. GABRIEL.

Home Hygiene and care of the sick. A study of the health and problems of individual homes and community with demonstrations and student practice work based upon Red Cross textbook. Open to students and teachers. Class limited to fifteen students but the course will not be given if less than ten register. Two lectures and two three-hour laboratories per week. Recognition of this work is given by the Red Cross.

Textbook: *Home Hygiene and Care of the Sick.* (Revised).

Ng. 203. Child Care and Training. Daily at 8:00. A-304. 3 credits. GABRIEL.

A brief study of the general psychology of the child from birth to six years of age including mental and emotional development and the formation of habits. Open to men and women students.

Textbook: Arlitt, *Psychology of Infancy and Early Childhood.*

Ng. 204.—Maternal and Infant Care. 2:00-4:00 M. W. A-304. 2 credits. GABRIEL.

A brief study of maternal and infant mortality with special reference to Florida conditions; clothing and food for the expectant mother, preparation for confinement, care of the newborn, the layette, growth and development during the first year, diseases and defects of infancy. Open to students and teachers.

PHILOSOPHY

Ppy. 301.—Ethics. Daily at 11:00. P-112. 3 credits. ENWALL.

Principles of Ethics. Study of such topics as goodness, happiness, virtue, duty, freedom, civilization, and progress.

Ppy. 303.—History of Ancient Philosophy. Daily at 12:00. P-112. 3 credits. ENWALL.

Ppy. 508.—The Philosophic Conceptions of the Great English Poets. Seminar; hours to be arranged. P-114. 3 credits. ENWALL.

Prerequisite: Ppy. 303 and 304, or Ppy. 301.

PHYSICS

Physics 105, 106, 107 and 108 will not be given this summer. Students in the College of Engineering desiring to earn credit in Physics may enroll in the courses outlined below. Substitution will be allowed if a grade of C or higher is made. Only two of the following group of courses will be offered this summer.

Ps. 111.—Elementary Theory of Mechanics and Heat. Daily at 11:00. B-203. 3 credits. WILLIAMSON.

Ps. 112.—Elementary Theory of Light and Electricity. Daily at 8:00. B-203. 3 credits. WILLIAMSON.

Ps. 115.—Laboratory Work in Mechanics and Heat. Afternoons to be arranged. B-306. 2 credits. WILLIAMSON and assistant.
Laboratory fee: \$2.50.

Ps. 116.—Laboratory Work in Light and Electricity. Afternoons to be arranged. B-306. 2 credits. WILLIAMSON and assistant.
Laboratory fee: \$2.50.

The following courses are designed for advanced undergraduate students and for graduates. A college course in Physics is a necessary prerequisite for these courses. In addition, calculus is required if graduate credit is desired. Only one of the courses listed below will be offered during the summer. Hours are to be arranged.

Ps. 309.—Light. Hours to be arranged. B-203. 3 credits. WILLIAMSON.

An intermediate course to follow the beginning course in general physics, with a study of the phenomena of refraction, interference, diffraction, and polarization, and the theory of spectra.

Ps. 517.—Modern Physics. Hours to be arranged. B-203. 3 credits. WILLIAMSON.

The electronic theory of atomic structure, and the interpretation of the properties of matter and radiation from the standpoint of this theory.

An opportunity is offered to students who wish to pursue individual work along special lines in optics or spectroscopy.

POLITICAL SCIENCE

Political Science courses are year courses and both semesters must be completed for final credit.

Pcl. 101.—American Government and Politics. 3 credits. Two sections:

Section 1. Daily at 12:00. L-211. TRIBOLET.

Section 2. Daily at 10:00. L-211. GREEN.

A study of the structure and functions of the federal government.

Pcl. 102.—American Government and Politics. 3 credits. Two sections:

Section 1. Daily at 8:00. L-211. GREEN.

Section 2. Daily at 9:00. L-203. GREEN.

A study of state, county and municipal government; continuation of **Pcl. 101.**

Pcl. 101 and **102** prerequisite for all advanced work.

Pcl. 303.—International Law. Daily at 11:00. L-209. 3 credits. TRIBOLET.

This course covers the first semester's work in **Pcl. 303-304.**

Pcl. 305.—Political Theories. Daily at 9:00. L-209. 3 credits. TRIBOLET.

This course covers the first semester's work in **Pcl. 305-306.**

PSYCHOLOGY

Psy. 201.—General Psychology. Four sections. 3 credits.

Section 1. Daily at 8:00. P-10. HINCKLEY.

Section 2. Daily at 9:00. A-104. WILLIAMS.

Section 3. Daily at 10:00. P-102. WILLIAMS.

Section 4. Daily at 11:00. P-10. HINCKLEY.

Facts and theories current in general psychological discussion: The sensations, the sense organs, and the functions of the brain; the higher mental functions—attention, perception, memory, feeling, emotion, volition, the self, and like topics. This course satisfies the professional requirement for the extension of certificates.

Psy. 304.—Experimental Psychology. Daily at 11:00. Laboratory 1:00-4:00 M. P-114. 3 credits. WILLIAMS.

Mainly laboratory work with standard apparatus on the current problems in Experimental Psychology. Special attention given to methods of psychological investigation and the collection and treatment of data.

Prerequisite: **Psy. 201.**

Laboratory fee: \$2.

Psy. 421.—Psychology of Learning. Daily at 9:00. P-114. 3 credits. HINCKLEY.

Lectures, readings, and class demonstrations on the main psychological factors involved in learning.

Prerequisite: **Psy. 201.**

Psy. 501.—Readings in Experimental Psychology. Daily at 9:00. P-114. 3 credits. HINCKLEY.

Seminar in the psychology of learning for graduate students in psychology.

PUBLIC SCHOOL ART

Pc. 101.—Elementary Art. Two sections. 1 credit. MITCHELL.

Section 1. M. W. F. at 9:00. P-302. MITCHELL.

Section 2. M. W. F. at 3:00. P-302. MITCHELL.

Production and methods of teaching the following subjects to all grades from the first through the junior high school: lettering, posters, design, note book and portfolio construction, nature study, and picture study.

Pc. 102.—Frieze Development. 2:00 M. W. F. P-302. 1 credit. MITCHELL.

Production and methods of teaching the following subjects to all grades from the first through the junior high school: color, costumes, figures, trees, landscapes, perspective combined in frieze painting.

Pc. 291.—Design and Application. 8:00 T. W. Th. P-302. 1 credit. MITCHELL.

Production and methods of teaching the following subjects to all grades from the first through the junior high school: floral design, floral design applied, animal drawing simplified, developing patterns for toys, animal design applied, book ends, color review, and note book.

Pc. 209.—Design Applied; Arts and Crafts. 11:00 M. W. F. S. P-302. 1 credit. MITCHELL.

The fundamentals of elementary design and its application to such problems as: the tea tile, wall plaque, book ends, wall hangings, pillow tops, plaited shades, and greeting cards.

SOCIOLOGY

Sy. 111.—Introduction to Social Studies. 3 credits. Two sections:

Section 1. Daily at 8:00. P-11. BRISTOL.

Section 2. Daily at 11:00. P-11. BEATY.

An approach to the social sciences by a study of early man and his increasing power over his environment. Required of all freshmen in the College of Education.

Sy. 112.—Modern Social Problems and Their Genesis. 3 credits. Two sections:

Section 1. Daily at 9:00. P-11. CONNOR.

Section 2. Daily at 12:00. P-101. CONNOR.

A study of some of the most important social problems of the day such as those connected with population pressure, race antagonisms, the broken and disorganized family, poverty and crime. Methods of dealing with these problems. Program looking to prevention. **Sy. 111** desirable but not required as prerequisite. Required of all freshmen in College of Education and of all students in Journalism.

Sy. 303.—Cultural Development of the United States. Daily at 9:00. P-10. 3 credits. BRISTOL.

Indian cultures of the 16th century. Contrasted cultures in the colonies with causal explanation. Influence of the Industrial and Political Revolutions on social institutions and life. Westward migrations and influence on personal, community, and national life. Special emphasis on the development of various social institutions.

Prerequisite: One of the following: **Sy. 111**, **Hy. 101** and **102** or **Es. 101**.

Sy. 324.—Crime and Punishment. 2:00-4:00 M. W. F. P-8. 3 credits. BRISTOL.

Nature and causes of crime: punishment, correction, prevention. Sociological aspects of criminal law and procedure. Constructive proposals. Visit to State Prison Farm at Raiford, and Girls' Industrial School at Ocala.

Prerequisite: One course in Sociology or equivalent.

The following course will be given if preferred.

Sy. 441.—Principles of Sociology. 2:00-4:00 M. W. F. P-8. 3 credits. BRISTOL.

A brief study of the principles of social evolution, social organization and social progress, with special emphasis on the science of social relations.

Prerequisite: One course in Sociology or equivalent. **Sy. 324** will be given instead if preferred.

Sy. 443.—Race Problems. 10:00 M. T. W. F. S. One hour to be arranged. P-10. 3 credits. BEATY.

Origin and dispersion of races; the sociological concept of race; causes of racial antagonism; racial inequality; race mixtures; basis of racial adjustment.

Prerequisite: **Sy. 111**, **I12** or consent of instructor.

Sy. 503.—Cultural Development of the United States. Hours to be arranged. 3 credits. BRISTOL.

Seminar in culture history but attendance on part of classes in **Sy. 303** required.

Sy. 531, or Sy. 561.—A seminar will be given in connection with either **324** or **441**. Hours to be arranged. 3 credits. BRISTOL.

SPANISH

Credit is not given in Spanish 21 or Spanish 101 until Spanish 22 is completed in the one case, and Spanish 102 in the other. Students who have had one year of Spanish in the high school are admitted to Spanish 22, two years, to Spanish 101, three years, to Spanish 102.

Sh. 21.—Elementary Course. Daily at 11:00. P-209. 3 credits. HATHAWAY.

Pronunciation, grammar, dictation, acquisition of vocabulary, written exercises, reading of easy texts, conversation.

Sh. 22.—Elementary Course. Daily at 10:00. L-203. 3 credits. HIGGINS.

Continuation of **Sh. 21**.

Sh. 102.—Intermediate Course. Daily at 9:00. P-209. 3 credits.
HATHAWAY, first four weeks; HIGGINS, second four weeks.

Advanced grammar, composition, reading of modern stories, conversation.

Sh. 203.—Third Year Reading. Daily at 8:00. P-209. 3 credits.
HATHAWAY.

Selections from representative modern authors; study of literary background and trends.

Prerequisite: Sh. 102.

***Sh. 501.—Old Spanish.** Daily at 11:00. L-203. 3 credits. HIGGINS.
A study of Spanish Historical Grammar. Readings from twelfth, thirteenth and fourteenth centuries.

Prerequisite: Permission of instructor.

***Sh. 515.—Studies in Argentine Literature.** Daily at 11:00. L-203.
credits. HIGGINS.

Study of the modernista movement.

Prerequisite: Permission of instructor.

SPEECH

Prerequisite: All students taking work in the Department of Speech must have completed Eh. 101 and Eh. 102.

Sch. 201.—Public Speaking. Daily at 8:00. P-205. 3 credits. CONSTANS.

A presentation of the principles of correctness, clearness and effectiveness in speaking with considerable practice in the delivery of original speeches. Individual improvement is emphasized and encouraged by constructive criticism.

Sch. 309.—Dramatic Production. Daily at 9:00. P-205. 3 credits. CONSTANS.

Consideration of voice, technique of acting, and principles of character interpretation. The problem of directing, stage equipment, lighting, make-up. Rehearsal of one-act plays.

*Only the one of these courses for which there is the greater demand will be given.

QUESTIONNAIRE CONCERNING ADMISSION
1932 SUMMER SESSION

.....
 Last name First name in full Middle name Husband's initials

Age.....

When you have answered *ALL* the questions below mail this sheet to the Registrar.

1. I desire to register in the course checked below:

- | | |
|---|---|
| College of Arts and Sciences | College of Education |
| Bachelor of Arts..... | College of Pharmacy |
| Bachelor of Science..... | College of Agriculture |
| ..... | College of Law..... |
| College of Commerce and Journal-
ism | Graduate School |
| College of Engineering..... | School of Architecture and Allied
Arts |

HIGH SCHOOL CREDITS

2. Did you graduate from high school?..... What high school?
- Are your credits on file at this university?.....
3. Indicate the number of your high school credits in each of the following subjects:
- | | | |
|---------------------|-------------------------|---------------------|
| English | Foreign Language..... | Science |
| Algebra ..... | ..... | ..... |
| Plane Geometry..... | ..... | ..... |
| Solid Geometry..... | ..... | Other Subjects..... |
| Trigonometry | History and Civics..... | Total Credits |

COLLEGE CREDITS

4. Do you expect to work for a degree or diploma at this university?.....
5. List below all institutions of higher learning you have attended and supply the information.

Name of Institution	Address	Would you be allowed to register there this summer?
.....
.....
.....
.....
.....

6. Are official transcripts from all of the above schools on file in the Registrar's office?
7. Give last date of attendance at the University of Florida.....
8. Have you attended any other college since attending the University of Florida?.....
9. If the answer to 8 is yes, have you filed with the Registrar, a transcript or its equivalent, from the institution last attended?
10. I affirm that the above questions have been answered correctly. If I am admitted upon incorrect information I understand that my registration will be automatically cancelled.

Signed.....

The University Record

of the

University of Florida

Bulletin of the

College of Law

With Announcements for the Year

1932-33



Vol. XXVII. Series 1 No. 7

April 1, 1932

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The Reports of the President and the Board of Control, the Bulletin of General Information, the annual announcements of the individual colleges of the University, announcements of special courses of instruction, and reports of the University Officers.

These bulletins will be sent gratuitously to all persons who apply for them. The applicant should specifically state which bulletin or what information is desired. Address

THE REGISTRAR
University of Florida
Gainesville, Florida

Research Publications.—Research publications will contain results of research work. Papers are published as separate monographs numbered in several series.

There is no free mailing list of these publications. Exchanges with institutions are arranged by the University Library. Correspondence concerning such exchanges should be addressed to the University Librarian, University of Florida, Gainesville, Florida. The issue and sale of all these publications is under the control of the Committee on Publications. Requests for individual copies, or for any other copies not included in institutional exchanges, should be addressed to the University Library, University of Florida, Gainesville, Florida.

The Committee on University Publications
University of Florida
Gainesville, Florida

RESIDENT FACULTY

JOHN JAMES TICERT, M.A. (Oxon.), Ed.D., D.C.L., LL.D., President of the University

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CLIFFORD WALDORF CRANDALL, B.S., LL.B. (Michigan), Professor of Law

ROBERT SPRATT COCKRELL, M.A., B.L. (Virginia), Professor of Law

DEAN SLAGLE, M.A., LL.B. (Yale), Professor of Law

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CLARENCE JOHN TESELLE, M.A., LL.B. (Wisconsin), Professor of Law

JAMES WESTBAY DAY, M.A., J.D. (Florida), Professor of Law

STANLEY SIMONDS, Ph.D. (Johns Hopkins), Lecturer on Roman Law

ILIA ROUNTREE PRIDGEN, Librarian and Secretary

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GENERAL INFORMATION

HISTORY

Largely through the influence of Hon. Nathan P. Bryan, then a member of the Board of Control, the College of Law was established in 1909. From this time until 1917 the course comprised the work of two years. With the session of 1917-18 the present three-year course was inaugurated. At first the College was quartered in Thomas Hall, one of the dormitories. The present structure, known as the Law Building, was completed and occupied in the fall of 1914.

PURPOSE

It is the purpose of the College to impart a thorough, scientific, and practical knowledge of the law, and thus to equip its students to take advantage of the opportunities the present readjustments in business and social life are creating. It aims to develop keen, efficient lawyers, conversant with the ideals and traditions of the profession. Its policy is characterized by the emphasis of practice as well as theory; pleading as well as historical perspective; skill in brief making as well as legal information.

EQUIPMENT

Law Building.—The facilities of the College are centered in the Law Building. In it are located the lecture rooms, courtroom and auditorium, offices of administration, offices of the resident professors, the quarters of the John Marshall Law Club, and the Law Library, with consultation rooms for students and faculty. The courtroom is equipped with the usual accessories: jury box, witness stand, judge's office, and jury room.

Library.—The Law Library contains over 10,700 volumes. In it are included the published reports of the courts of last resort in every state in the Union and of the Federal Courts, the full English Reprints, the English Law Reports, Law Journal Reports, Dominion Law Reports, and the Canadian Reports, together with a collection of digests, encyclopedias, series of selected cases, and English and American treatises and textbooks. The Library also contains the Statutes of several of the states and those of the Federal Government, and is a subscriber to the leading legal periodicals. Law students also may make use of the General Library, in which are included works of interest and information to the lawyer. Both libraries are under the direction of trained librarians, who render needed assistance to students.

Henderson Memorial Library. The library of the late John W. Henderson, of Tallahassee, containing volumes of rare value and historical importance, is maintained intact in memory of its donor.

ADMISSION

Requirements for Admission.—General information respecting admission may be found in the *Bulletin of General Information* for 1932-33, pages 149-158; the specific requirements of the College of Law are listed on pages 152-153 of this bulletin.

Women Students.—By an Act of the Legislature of 1925, women who are

twenty-one years of age and who fully meet the entrance requirements of the College may enter as candidates for degrees.

Special Students.—The practice of admitting special students (i. e., those not meeting the requirements for admission) has been discontinued.

Advanced Standing.—No work in law done in other institutions will be accepted towards a degree unless the applicant passes satisfactorily the examinations held in the subject in question in this College, or unless credit is given without examination. Credit of an average of C from schools which are members of the Association of American Law Schools, of which this College is a member, will be accepted without examination. In no case will credit be given for work not done in residence at an approved law school.

EXPENSES

Full information respecting the expenses of law students may be found in the *Bulletin of General Information* for 1932-33, pages 159-164.

UNIVERSITY PRIVILEGES

Electives in Other Colleges.—The advantages of the other colleges of the University are open to such students in the College of Law as desire and are able to accept them. Courses in history, economics, sociology, psychology, logic, English, and speech are particularly recommended. No extra charge is made for such courses, but they can be taken only with the consent of the Dean.

Military Science and Tactics.—The University has an infantry unit, senior division of the Reserve Officers Training Corps and a Field Artillery Unit, to membership in which law students are eligible. They are not required, however, to join these organizations or to take any other military drill.

John Marshall Law Club.—Early in the first year of the College the students organized a society that would secure for its members practice in debating and public speaking and experience in arguing legal questions, as well as drill in parliamentary law. The society is now named the John Marshall Law Club, in honor of the distinguished Southern jurist, John Marshall.

PRIZES

Through the generosity of The American Law Book Company a Corpus Juris-Cyc prize is offered, under certain conditions, for the best work in legal research. Excellency in this work also will be considered in computing the grade of students taking brief making.

The Harrison Company of Atlanta kindly offers a set of the Photographic Reprint of the Florida Supreme Court Reports, vols. 1-22, to the senior doing all his work in this institution and making the highest record during his law course.

DEGREES

Bachelor of Laws.—The degree of Bachelor of Laws (LL.B.) is conferred upon those students who satisfactorily complete eighty-five semester hours of law which must include all of the first-year subjects. Students admitted to advanced standing may receive the degree after one year's residence, but in

no case will the degree be granted unless the candidate is in actual residence during all of the third year and passes in this College at least twenty-eight semester hours of law.

All students are required to complete the last twenty-eight credit hours applied towards the degree during regular residence. This may be varied only upon written petition approved by the faculty of the College of Law.

Juris Doctor.—Students who have complied with all the requirements for the degree of Bachelor of Laws (LL.B.), who have maintained an average standing of B in their law studies, and who have obtained the degree of A.B., or an equivalent degree, from an approved college or university, or who secure such degree the same year they complete their law course, will be awarded the degree of Juris Doctor (J.D.).

Combined Academic and Law Course. By pursuing an approved course of collegiate and law studies a student may earn both the academic and the legal degree in six years. Both the College of Arts and Sciences and the College of Commerce and Journalism offer such a combined course. For further particulars, see the *Bulletin of General Information* for 1932-33, pages 135, 141.

ADMISSION TO THE BAR

Upon presenting their diplomas, duly issued by the proper authorities, and upon furnishing satisfactory evidence that they are twenty-one years of age and of good moral character, the graduates of the College are licensed, without examination, to practice in the courts of Florida. They are also admitted without examination to the United States District Courts of Florida.

GRADES

Grades are recorded by use of the letters: A (Excellent), B (Good), C (Fair), D (Unsatisfactory but passing), E (Failure). D is the lowest passing grade.

Other special grades are: I (Incomplete), X (missed examination).

The grade of I must be removed within two months or it will be recorded E.

To obtain the degree applied for, the student must earn at the University of Florida as many honor points as credits. Honor points are allowed as follows: a grade of A gives three honor points per semester hour; a grade of B, two honor points per semester hour; a grade of C, one honor point per semester hour. No honor points are allowed for grades lower than C.

STUDENT REGULATIONS

Regulations of the University concerning absences, conduct, dropping courses, failure in studies, honor system, and many other important matters are treated in the *Bulletin of By-Laws* and the *Bulletin of General Information*. It is the duty of the student to familiarize himself with these regulations, as his rights and liabilities are determined by them.

PLEADING AND PRACTICE

Courses.—The College is convinced that an intensive knowledge of pleading and practice should be secured by the student, since legal rights cannot

be well understood without a mastery of the rules of pleading whereby they are enforced. As Lord Coke declared: "Good pleading is the touchstone of the true sense and knowledge of the common law." The development of right has depended upon the development of actions; the rule of law was the rule of writs and in large measure remains so today. Consequently, the College offers thorough courses in criminal pleading and procedure, common law pleading, equity pleading, Florida civil practice, trial practice, and Federal procedure. Thus, the student on graduation is enabled to enter understandingly upon the practice of law. The College endeavors to serve those who intend to practice elsewhere as efficiently as those who expect to locate in this state.

The Practice Court.—Believing the students obtain in the Practice Court a better practical knowledge of pleading and practice than can be acquired in any other way, aside from the trial of actual cases, the faculty lay special emphasis upon this work. Sessions of the Practice Court are held throughout the year. A clerk and a sheriff are appointed from the junior class, and regular records of the court are kept. Each student is required to participate in the trial of at least one common law, one equity, and one criminal case, and is instructed in appellate procedure. The Practice Court is conducted by Professor Te Selle, assisted by Professor Day.

LEGAL RESEARCH

To enable students to specialize in legal problems of particular interest to them, to acquire a grasp of the technique of legal investigation, and to do more creative work than ordinary courses in law permit, a course in legal research (Lw. 601 or Lw. 0601) is offered.

Each student taking the course is required to make an original study of the subject he selects under the guidance of the member of the faculty in whose field it falls. Such studies become the property of the College, and two typewritten copies thereof must be turned in as part of the course. Suitable studies will be submitted by the College to law journals for publication.

To be eligible for this work, second year students must have a grade-point average of at least 1.5, and third year students a grade-point average of at least 1. Applications for the course should be filed with the Secretary of the College at least one week prior to the first day of registration, and must be approved by the faculty. Students who register for two or three hours will not be permitted to drop the course for the number of hours for which they have registered and continue it for a lesser number of hours, unless they do so within the first two weeks of the semester. No more than three credits may be earned by a student in this course in one semester, but the faculty may admit a student to the course (Lw. 602 or Lw. 0602) for a second semester.

SUMMER SESSIONS

Instruction is offered by the College of Law during the Summer Session of the University. The requirements and standards of the regular session are maintained, and credit toward a degree is allowed for courses offered. Courses given during the summer are varied from year to year. For further particulars, consult the *Bulletin of the Summer Session*.

THE CURRICULUM AND COURSES

Curriculum Leading to the Degree of Bachelor of Laws or Juris Doctor.—Students completing the first year as outlined below and a total of 35 semester hours of law credit will be awarded the degree of Bachelor of Laws, or of Juris Doctor, if the requirements therefor are met.

First Semester		Second Semester	
Course	Credit	Course	Credit
First Year			
Lw. 301—Torts	5	Lw. 302—Equity Jurisprudence	5
Lw. 303—Contracts	3	Lw. 304—Contracts	3
Lw. 305—Criminal Law	2	Lw. 306—Marriage and Divorce	1
Lw. 307—Criminal Procedure	2	Lw. 308—Common Law Pleading.....	3
Lw. 309—Property	2	Lw. 312—Property	2
Second Year			
Lw. 401—U. S. Constitutional Law....	4	Lw. 402—Evidence	4
Lw. 403—Agency	2	Lw. 404—Quasi Contracts	2
Lw. 405—Equity Pleading	3	Lw. 406—Private Corporations.....	4
Lw. 407—Brief Making and the Use of Law Books	1	Lw. 408—Legal Ethics	1
Lw. 409—Property	3	Lw. 410—Property	3
Lw. 411—Florida Constitutional Law	2	Lw. 412—Florida Civil Practice.....	3
Lw. 413—Florida Civil Practice	3	Lw. 416—Insurance	2
Lw. 417—Sales	1		
Third Year			
Lw. 503—Public Service Corporations	2	Lw. 502—Damages	2
Lw. 505—Federal Procedure	2	Lw. 504—Municipal Corporations	2
Lw. 509—Partnership	2	Lw. 506—Negotiable Instruments	3
Lw. 513—Property	3	Lw. 508—Conflict of Laws.....	3
Lw. 515—Mortgages	2	Lw. 510—Abstracts	1
Lw. 517—Roman Law	3	Lw. 516—Roman Law	3
Lw. 519—Trial Practice and Practice Court	3	Lw. 518—Trial Practice and Practice Court	3
Lw. 521—Trusts	2	Lw. 520—Creditors' Rights	3
Lw. 601—Legal Research	1 to 3	Lw. 522—Admiralty	2
		Lw. 601—Legal Research	1 to 3

DESCRIPTION OF COURSES

Lw. 301.—Torts. 5 hours. 5 credits. TRUSLER; Assistant, DAY.

History and definitions; elements of torts; conflicting rights; mental anguish; parties to tort actions; remedies; damages; conflict of laws; methods of discharge; comprehensive study of particular torts: false imprisonment, malicious prosecution, abuse of process, conspiracy, slander and libel, trespass, conversion, deceit, nuisance, negligence, and others.

Burdick on Torts, and *Burdick's Cases on Torts*, fourth edition.

Lw. 302.—Equity Jurisprudence. 5 hours. 5 credits. TRUSLER; Assistant, DAY.

History and definition; jurisdiction; maxims, accident, mistake, fraud; penalties and forfeitures; priorities and notice; bona fide purchasers, estoppel; election; satisfaction and performance; conversion; equitable estates, interest, primary rights; trusts; powers, duties, and liabilities of trustees; mortgages; equitable liens; assignments; specific performance; injunction; reformation; cancellation; cloud on titles; ancillary remedies.

Eaton on Equity, second edition; selected cases.

Lw. 303.—Contracts—Two sections. 3 hours. 3 credits. THOMPSON.

Formation of contract; offer and acceptance; form and consideration; reality of consent; legality of object; operation of contract; limits of the contract obligation; assignment of contract.

Clark on Contracts, fourth edition; *Throckmorton's Cases on Contracts*, second edition.

Lw. 304.—Contracts—Two sections. 3 hours. 3 credits. THOMPSON.

Joint obligations; interpretation of contract; rules relating to evidence and construction; discharge of contract.

Clark on Contracts, fourth edition; *Throckmorton's Cases on Contracts*, second edition.

Lw. 305.—Criminal Law—Two sections. 2 hours. 2 credits. COCKRELL.

Sources of criminal law; nature and elements of crime; criminal intent; insanity; intoxication; duress; mistake of fact or law; justification; parties in crime; offenses against the person, habitation, property, public health and morals, public justice and authority, government, and the law of nations.

Clark on Criminal Law, third edition; selected cases.

Lw. 306.—Marriage and Divorce—Two sections. 1 hour. 1 credit. COCKRELL.

Marriage in general; nature of the relation; capacity of parties; annulment; divorce; suit, jurisdiction, grounds; defenses; alimony; effect on property rights; custody and support of children; agreements of separation.

Vernier's Cases on Marriage and Divorce.

Lw. 307.—Criminal Procedure—Two sections. 2 hours. 2 credits. COCKRELL.

Jurisdiction; arrest; preliminary examination and bail; grand jury, indictment and information and their sufficiency in form and substance; arraignment, pleas, and motions; nolle prosequi and motions to quash; jeopardy; presence of defendant at the trial; verdict; new trial; arrest of judgment; judgment, sentence, and execution.

Clark's Criminal Procedure, second edition; selected cases.

Lw. 308.—Common Law Pleading—Two sections. 3 hours. 3 credits. CRANDALL.

History and development of the personal actions at common law; theory of pleading and its peculiar features as developed by the jury trial; demurrers, general and special; pleas in discharge, in excuse, and by way of traverse; replication de injuria; duplicity; departure; new assignment; motions based on pleadings; general rules of pleadings.

Keigwin's Cases on Common Law Pleading.

Lw. 309.—Property—Two sections. 2 hours. 2 credits. CRANDALL.

Personal property; possession and rights based thereon; acquisition of title; liens and pledges; conversion.

Warren's Cases on Property.

Lw. 312.—Property—Two sections. 2 hours. 2 credits. DAY.

Introduction to the law of conveyancing; rights incident to the ownership of land, and estates therein, including the land itself, air, water, fixtures, emblements, waste; profits; easements; licenses; covenants running with the land.

Warren's Cases on Property.

Lw. 401.—United States Constitutional Law. 1 hours. 4 credits.

SLAGLE.

General principles; distribution of governmental powers; Congress; the chief executive; the judiciary; police powers; eminent domain; checks and balances; guarantee of republican government; civil rights; political privileges; guarantee in criminal cases; impairment of contractual obligations.

Hall's Cases on Constitutional Law.

Lw. 402.—Evidence. 4 hours. 4 credits. COCKRELL.

Judicial notice; kinds of evidence; burden of proof; presumptions of law and fact; judge and jury; best evidence rule; hearsay rule and its exceptions; admissions; confessions; exclusions based on public policy and privilege; corroboration; parol evidence rule; witnesses; attendance in court; examination, cross examination, privilege; public documents; records and judicial writings; private writings.

Greenleaf on Evidence, sixteenth edition, Volume 1; selected cases.

Lw. 403.—Agency. 2 hours. 2 credits. THOMPSON.

Nature of the relation; purposes and manner of creation; who may be principal or agent; ratification; delegation of authority; general and special agents; rights and duties of agents; termination, nature, extent, construction, and execution of authority of agents; rights, duties, and liabilities of agents; principal and third persons inter se; particular classes of agents.

Mechem's Cases on Agency, second edition.

Lw. 404.—Quasi Contracts. 2 hours. 2 credits. CRANDALL.

Origin and nature of quasi contract; benefits conferred in misreliance on rights or duty, from mistake of law, and on invalid, unenforceable, illegal, or impossible contract; benefits conferred through dutiful intervention in another's affairs; benefits conferred under constraint; action for restitution as alternative remedy for breach of contract and for tort.

Woodruff's Cases on Quasi Contracts.

Lw. 405.—Equity Pleading. 3 hours. 3 credits. TE SELLE.

Nature and object of pleading in equity; parties to a suit in equity; proceedings in a suit in equity; bills in equity; disclaimer; demurrers and pleas; answer and replication; preparation of bills, demurrers, pleas, answers.

Keigwin's Cases in Equity Pleading; Rules of the Circuit Court in Chancery in Florida; Rules of the Federal Court; Statutes of Florida.

Lw. 406.—Private Corporations. 4 hours. 4 credits. SLAGLE.

Nature and citizenship; defective organization; promoters; powers and liabilities; corporations and the state; dissolution; membership; management; creditors; foreign corporations; practice in forming corporations, preparing by-laws, electing officers, and in conducting corporate business.

Clark on Private Corporations, and *Wormser's Cases on Corporations.*

Lw. 407.—Brief Making and the Use of Law Books.—Two sections.

2 hours. 1 credit. DAY.

Where to find the law; how to use statutes and decisions; how to find the law; the trial brief; the brief on appeal and its preparation.

Eldean's How to Find the Law.

Lw. 408.—Legal Ethics. 1 hour. 1 credit. DAY.

Admission of attorneys to practice; taxation; privileges and exemptions; authority; liability to clients and to third parties; compensation; liens; suspension and disbarment; duties to clients, courts, professional brethren, and society.

Attorneys at Law in Ruling Case Law and the *Code of Ethics* adopted by the American Bar Association.

Lw. 409.—Property. 3 hours. 3 credits. DAY.

Titles and conveyancing, including acquisition of titles by possession, modes of conveyance at common law, under the statute of uses, and by statutory grant; the execution of deeds; estates created; covenants for titles; estoppel by deed; priorities among titles.

Warren's Cases on Conveyances.

Lw. 410.—Property. 3 hours. 3 credits. THOMPSON.

History of the law of wills and testaments; testamentary capacity and intent; kind of wills and testaments; execution, revocation, republication, revival of wills; descent; probate of wills and the administration of estates.

Mechem and Atkinson's Cases on Wills and Administration.

Lw. 411.—Florida Constitutional Law. 2 hours. 2 credits. TRUSLER.

Declaration of rights; departments of government; suffrage and eligibility; census and apportionment; counties and cities; taxation and finance; homestead and exemption; married women's property; education; public institutions; miscellaneous provisions.

Constitution, Statutes and Judicial Decisions of Florida.

Lw. 412.—Florida Civil Practice. 3 hours. 3 credits. COCKRELL.

Organization of courts; parties; joinder and consolidation of actions; issuance, service, and return of process; appearance; trial; verdict; proceedings after verdict; appellate proceedings; peculiar characteristics of the common law actions; special proceedings including certiorari, mandamus, prohibition, quo warranto, habeas corpus, attachment, garnishment, statutory liens, forcible entry and detainer, landlord and tenant.

Crandall's Florida Civil Practice.

Lw. 413.—Florida Civil Practice. 3 hours. 3 credits. CRANDALL.

Organization of courts; parties; joinder and consolidation of actions; issuance, service, and return of process; appearance; trial; verdict; proceedings after verdict; appellate proceedings; peculiar characteristics of the common law actions; special proceedings including certiorari, mandamus, prohibition, quo warranto, habeas corpus, attachment, garnishment, statutory liens, forcible entry and detainer, landlord and tenant.

Crandall's Florida Civil Practice.

Lw. 416.—Insurance. 2 hours. 2 credits. TE SELLE.

Theory, significance; insurable interest; concealment, representations, warranties; subrogation; waiver and estoppel; assignees, beneficiaries; creditors; fire, life, marine, accident, guarantee, liability insurance.

Vance's Cases on Insurance, second edition.

Lw. 417.—Sales. 1 hour. 1 credit. DAY.

Sale and contract to sell; statute of frauds; illegality; conditions and warranties; delivery; acceptance and receipt; vendor's lien; stoppage in transitu; bills of lading; remedies of seller and buyer.

Vold on Sales.

Lw. 502.—Damages. 2 hours. 2 credits. TRUSLER.

General principles; nominal; compensatory; exemplary; liquidated; direct and consequential; proximate and remote; general and special; measure in contract and tort actions; entire damages in one action; mental suffering; avoidable consequences; value; interest; lateral support; counsel fees and expenses of litigation; injuries to real property and limited interests; death by wrongful act; breaches of warranty.

Trusler's Cases on Damages.

Lw. 503.—Public Service Corporations. 2 hours. 2 credits. SLAGLE.

Nature of public utilities; railroads and other common carriers of goods and passengers; telegraphs and telephones; light and water companies; inns; warehouses; elevators; stockyards; methods of incorporation; public control; rights and obligations at common law and under federal and state statutes.

Wyman's *Cases on Public Companies*, third edition.

Lw. 504.—Municipal Corporations. 2 hours. 2 credits. CRANDALL.

Definition and nature; origin and history; incorporation and incidents of existence; corporate agencies; officers; legislation; powers; revenue; contracts; property rights; liability for wrongs; remedies.

Tooke's *Cases on Municipal Corporations*.

Lw. 505.—Federal Procedure. 2 hours. 2 credits. SLAGLE.

System of courts created under the authority of the United States, jurisdiction of the several courts and procedure therein, removal of cases from state courts; substantive law applied by federal courts; appellate jurisdiction.

Rose on *Federal Jurisdiction and Procedure*, third student's edition.

Lw. 506.—Negotiable Instruments. 3 hours. 3 credits. DAY.

Law merchant; definitions and general doctrines; contract of the maker, acceptor, certifier, drawer, indorser, vendor, accommodator, assurer; proceedings before and after dishonor of negotiable instruments; absolute defenses; equities; payments; conflict of laws.

Britton's *Cases on Bills and Notes*, second edition.

Lw. 508.—Conflict of Laws. 3 hours. 3 credits. SLAGLE.

Jurisdiction; sources of law and comity; territorial jurisdiction; jurisdiction in rem and in personam; remedies, rights of action, procedure; creation of rights; property rights; personal rights; inheritance; obligations ex delicto and ex contractu; recognition and enforcement of rights; personal relations; property inheritance; administration of estates; judgments and obligations.

Lorenzo's *Cases on Conflict of Laws*, second edition.

Lw. 509.—Partnership. 2 hours. 2 credits. THOMPSON.

Creation, nature, characteristics of a partnership; nature of a partner's interest; nature, extent, duration of the partnership liability; powers of partners; rights, duties, remedies of partners inter se; rights and remedies of creditors; termination of partnership.

Gilmore's *Cases on Partnership*.

Lw. 510.—Abstracts. 1 hour. 1 credit. THOMPSON.

Practical problems covering the interpretation of maps and the plotting of lots described by metes and bounds; the formal requisites of the different conveyances in use in Florida; deeds executed by public and judicial officers; liens and contracts for the sale of lands.

Thompson's *Examination of Titles; Florida Statutes* and selected Florida cases.

Lw. 513.—Property. 3 hours. 3 credits. CRANDALL.

Conditional estates; licenses and waivers; reversions and remainders; rule in Shelley's Case; future uses; future interests; executory devises and bequests; vesting of legacies; cross limitations; gifts; failure of issue; determination of classes; powers; rule against perpetuities; restraints on alienation.

Kale's *Cases on Future Interests*.

Lw. 515.—Mortgages. 2 hours. 2 credits. COCKRELL.

Nature; elements; incidents of the relation; discharge; assignment; redemption; foreclosure; injunction and account; extent of the lien; priority between mortgage liens and competing claims; equity of redemption.

Durfee's *Cases on Mortgages*.

Lw. 516.—Roman Law. 3 hours. 3 credits. SIMONDS.

Readings, references, and reports. Subjects treated: Roman public law; Roman international law; Stoic philosophy and the Jus Gentium; Christianity and the Roman law; Roman law in mediæval Europe; the revival of Roman law; the Roman element in modern jurisprudence.

Lw. 517.—Roman Law. 3 hours. 3 credits. SIMONDS.

The fundamental legal conceptions which are found in Roman law. Readings in the Institutes of Gaius and Justinian (Robinson's Selections), with constant reference to Sohm—Institutes of Roman Law—translated by Ledley. Topics assigned for reports. Lectures with chief stress on Private Law.

Lw. 518.—Trial Practice and Practice Court. 3 hours. 3 credits.

TE SELLE; Assistant, DAY.

Trials; verdicts; judgments; new trials; bills of exceptions. Preparation of pleadings and trial of cases.

McBaine's *Cases on Trial Practice*.

Lw. 519.—Trial Practice and Practice Court. 3 hours. 3 credits.

TE SELLE.

Jurisdiction; process; the jury; instructions. Preparation of pleadings and trial of cases.

McBaine's *Cases on Trial Practice*.

Lw. 520.—Creditors' Rights. 3 hours. 3 credits. TE SELLE.

Remedies of the unsecured creditor; fraudulent conveyances; creditors' agreements; general assignment for benefit of creditors; equity and statutory receiverships; bankruptcy, including prerequisites to adjudication, trustees, provable claims, exemptions, discharge and appeals.

Hanra's *Cases on Creditors' Rights*.

Lw. 521.—Trusts. 2 hours. 2 credits. DAY.

The Anglo-American system of uses and trusts; creation, transfer, extinguishment of trust interests; priorities between competing equities; construction of trust dispositions; charitable trusts.

Bogert on Trusts; selected cases.

Lw. 522.—Admiralty. 2 hours. 2 credits. SLAGLE.

Jurisdiction; contracts, torts, crimes; maritime liens, ex contractu, ex delicto, priorities, discharge; bottomry and respondentia obligations; salvage; general average.

Lord and Sprague's *Cases on Admiralty*.

Lw. 601 or 601.—Legal Research. 1 to 3 hours. 1 to 3 credits.

Mature investigation of special problems in substantive or adjective law, jurisprudence or legal history, under the supervision of a member or members of the faculty.

Prerequisite: (See page 236).

Lw. 602 or 0602.—Legal Research. 1 to 3 hours. 1 to 3 credits.

Mature investigation of special problems in substantive or adjective law, jurisprudence or legal history, under the supervision of a member or members of the faculty.

Prerequisite: (See page 236).

SUMMER SESSION COURSES, 1932

June 13 to August 7

Lw. 305S-307S.—Criminal Law and Procedure. 6 hours. 3 credits.

COCKRELL.

Waite's *Cases on Criminal Law and Procedure*.

Lw. 311.—School Law. 4 hours. 2 credits. TRUSLER.

Trusler's *Essentials of School Law*.

Lw. 402.—Evidence. 8 hours. 4 credits. TE SELLE.

Thayer's *Cases on Evidence* (Maguire's edition).

Lw. 408S.—Legal Ethics. 4 hours. 2 credits. TRUSLER.

Attorneys at Law in Ruling Case Law and the *Code of Ethics* adopted by the American Bar Association.

- Lw. 412.—Florida Civil Practice.** 6 hours. 3 credits. COCKRELL.
Crandall's Florida Civil Practice.
- Lw. 419.—Air Law.** 4 hours. 2 credits. TE SELLE.
Zollman's Cases on Air Law.
- Lw. 502.—Damages.** 4 hours. 2 credits. TRUSLER.
Trusler's Cases on Damages.
- Lw. 523.—Taxation.** 6 hours. 3 credits. SLAGLE.
Rottschaefer's Cases on Taxation.
- Lw. 525.—Trade Regulations.** 6 hours. 3 credits. SLAGLE.
Oliphant's Cases on Trade Regulations.

THE UNIVERSITY CALENDAR

1932-1933

First Semester

- September 9, 10, Friday-Saturday.....Entrance examinations.
 September 12, Monday, 11:00 a.m.....1932-33 session begins.
 September 12-17, Monday-Saturday.....Freshman Week.
 September 16-17, Friday-Saturday
 noonRegistration of upperclassmen.
 September 19, Monday 8:00 a.m.....Classes for 1932-33 session begin; late
 registration fee \$5.
 September 24, Saturday 12:00 noon.....Last day for changing course without
 paying the \$2 fee.
 September 24, Saturday 12:00 noon.....Last day for registration for the first
 semester 1932-33.
 November 11, Friday.....Armistice Day; special exercises but
 classes are not suspended.
 November 23, Wednesday 5:00 p.m.....Thanksgiving recess begins.
 November 28, Monday 8:00 a.m.....Thanksgiving recess ends.
 December 17, Saturday 12:00 noon.....Christmas recess begins.

1933

- January 2, Monday 8:00 a.m.....Christmas recess ends.
 January 23, Monday 8:00 a.m.....Final examinations for the first se-
 mester begin.
 January 29, Sunday.....Baccalaureate Sermon.
 January 30, Monday 10:00 a.m.....Commencement Convocation.
 February 1, Wednesday.....Inter-Semester Day, a holiday.

Second Semester

- February 2-3, Thursday-Friday.....Registration for second semester; all
 students whose names begin with "A"
 through "M" register on Thursday; all
 others on Friday.
 February 4, Saturday 8:00 a.m.....Classes for second semester begin;
 change of course fee, \$2; late registra-
 tion fee, \$5.
 February 10, Friday 5:00 p.m.....Last day for registration for second
 semester.
 April 5, Wednesday 5:00 p.m.....Spring recess begins.
 April 10, Monday 8:00 a.m.....Spring recess ends.
 May 25, Thursday 8:00 a.m.....Final examinations begin.
 June 3-5, Saturday-Monday.....Commencement Exercises.

Entrance Examinations

Entrance examinations for admission to the various colleges of the University will be conducted for students whose credits do not meet the requirements.

Candidates wishing to take any of these examinations should notify the Registrar in writing, not later than September 1, January 15, June 1, or June 20.

For further information concerning these examinations see the *Bulletin of General Information*.

The University Record
of the
University of Florida
Mid-Year Commencement
Addresses

January 31, and February 1, 1932



Vol. XXVII, Series 1

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April 15, 1932

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The Reports of the President and the Board of Control, the Bulletin of General Information, the annual announcements of the individual colleges of the University, announcements of special courses of instruction, and reports of the University Officers.

These bulletins will be sent gratuitously to all persons who apply for them. The applicant should specifically state which bulletin or what information is desired. Address

THE REGISTRAR
University of Florida
Gainesville, Florida

Research Publications.—Research publications will contain results of research work. Papers are published as separate monographs numbered in several series.

There is no free mailing list of these publications. Exchanges with institutions are arranged by the University Library. Correspondence concerning such exchanges should be addressed to the University Librarian, University of Florida, Gainesville, Florida. The issue and sale of all these publications is under the control of the Committee on Publications. Requests for individual copies, or for any other copies not included in institutional exchanges, should be addressed to the University Library, University of Florida, Gainesville, Florida.

The Committee on University Publications
University of Florida
Gainesville, Florida

COMMENCEMENT ADDRESS

The Limitations of Armaments

by

HAMILTON HOLT, LL. D.

President of Rollins College

WINTER PARK
FLORIDA



University Auditorium

February 1, 1932

The Limitations of Armaments

WHEN I went to Europe in those black days just before the tide turned in 1918 it was quite evident that the peoples of the world, no matter what the Kings and Captains might say, were determined that when the war was over armaments should be reduced. It was the first issue in the hearts of the people, and it was evident that any government that should dare to thwart the popular aspiration would be swept out of office bag and baggage. In the United States there has been a widespread fear of militarism. Our people have never been cursed with an overbearing military caste who have attempted to arrogate to themselves social and political power. Nor have we been taxed to death to support a colossal army. In Europe, however, things are different. There they have seen and felt all these things, and I am sure I am speaking within the bounds of truth when I assert that they are sick and tired of the whole military system.

While in Paris as a delegate of the League to Enforce Peace I conferred with representatives of other organizations from other countries pledged to the establishment of a League of Nations. I was instructed by the Executive Committee of the League to Enforce Peace not to commit the League to any program of armament reduction in our joint deliberations, as the League had never expressed itself one way or the other on that issue. But I very soon learned that the limitation of armaments, if not disarmament itself, was not a question at issue at all, but a settled policy which all Europe, except, of course, the little pro-military and reactionary groups, was bent on carrying into effect at the earliest possible moment. So when the Covenant was framed, I was not at all surprised that it contained Article VIII, the first sentence of which reads:

"The Members of the League recognize that the maintenance of peace requires the reduction of national armaments to the lowest point consistent with national safety and the enforcement by common action of international agreements."

At the eighth meeting of the Council of the League of Nations during the first Assembly of the League, a permanent Armaments Commission was created under Article IX of the Covenant to advise the Council on military, naval, and air questions.

The Commission immediately organized itself and started to work. But progress in the beginning was slow. As Germany was still outside the League and America was holding up the world with her fiddling and fuddling (the Assembly of course was too polite to use such terms) it was time to take things a little leisurely. So all the Assembly of the League of Nations did was to recommend that the Council suggest to the member states that they should not increase their military budgets for the next two years and that a temporary committee of political, economic, and social experts be added to the Armaments Commission, it being felt that the question of disarmament was a problem for statesmen and students as well as for generals and admirals.

Unfortunately, little progress can be recorded as a result of the Washington and London Conferences except the unequivocal acceptance by all nations of the principle of the limitation of armaments.

The League of Nations has the opportunity now to succeed where the Hague Conferences and the London Conference failed. It will succeed if it apprehends the problem aright. The problem is, of course, nothing more than the discrimination between the appeal to force and the appeal to reason. In the past the reign of force was well-nigh universal. *Inter arma leges silent*. In the future the reign of reason or law will prevail. Or, at least, when we become civilized we shall have only civil war.

History, says Napoleon, is nothing but "a record of the decline of war, though the slow decline." Putting it another way, history is nothing but the record of the growth of law, though the slow growth. The peace movement is the agency which hastens this process. Its purpose is to substitute in international relations reason for force, right for might, law for war.

The agents of force are armies and navies. The agents of reason are courts, parliaments, and executives. Expressing the problem in terms of agents rather than in terms of their principals, the peace movement is the process of substituting courts, parliaments, and executives for the world's armies and navies, in the conduct of international affairs.

THE REAL PROBLEM

ASSUMING that the enthronement of reason will take place by the perfecting of the World Court into the judicial branch of the "United Nations", the Assembly of the League of Nations into Tennyson's dream of the Parliament of Man, and the Concert of Powers into a real world executive, what sanctions will be available to make nations use them? This is undoubtedly the most difficult problem confronting world statesmanship.

Three main sanctions have been suggested. I leave out of account diplomatic pressure because diplomatic pressure has never been accounted when a real crisis arises. The three are:

- (1) Public Opinion
- (2) Economic Pressure
- (3) Force

Of course, no sanction can have the effect desired unless it is strong enough to deter those who are tempted to disregard it. Can public opinion compel obedience to international law? While it is an axiom of political science that no law can be enforced contrary to public opinion, the converse is, of course, not true. Public opinion can no more prevent a great nation from violating the canons of international law, as has been amply demonstrated in the Great War, than can public opinion within a nation apprehend a criminal or put down a riot. Public opinion must sustain international law and approve its enforcement. Public opinion as a substitute for force is chimerical.

WOULD ECONOMIC PRESSURE ASSURE PEACE?

WILL non-intercourse or economic pressure be sufficient to maintain international law? Economic pressure is already a part of the law of the League of Nations. But though the threat of its use has been made several times, especially in the Albania and Jugoslavia boundary dispute, and now in the Sino-Japanese complications, it has never been resorted to.

While economic pressure would undoubtedly in many instances be sufficient to bring about a recourse to a peaceful settlement, there are several reasons for thinking it would not always work. Two of the most important are as follows:

(1) Economic pressure can never be as great as physical pressure, both by the very nature of the case and because, as President Lowell of Harvard University has well pointed out, "the resistance of the interests affected will be at least as great against an economic boycott as against war, and they will be constantly striving to break it down, whereas war once declared silences opposition—a fact which any nation that thought of breaking international law would not fail to see."

(2) The proposal to resort to non-intercourse will have to meet a practical difficulty. When such a measure is to be employed, how can the coercing powers equitably apportion the pressure among themselves? In undertaking to employ military force this is difficult enough, but when economic pressure is to be employed, it is conceivable that a single nation may have to bear virtually the entire cost of the undertaking. Nevertheless, until the nations devise some plan—and the League of Nations is working on the problem—by which the nation that suffers the most from the loss of trade is compensated by the others, this objection might be almost insuperable.

FORCE IN INTERNATIONAL AFFAIRS

IF public opinion and economic pressure will not always suffice to compel a recourse to peaceful adjustment, we fall back on force as the ultimate sanction.

We are now living in a world in which there are laws and covenants to prevent war but no force to compel a resort to them. It would be an exact parallel if, within the state, there were elaborate laws governing the conduct of persons engaged in riots, murder, and violence, and no police to enforce them. This aspect of the case has thus been summarized by Elihu Root:

"Many states have grown so great that there is no power capable of imposing punishment on them except the power of collective civilization outside that state . . . and the only possibility of establishing real restraint by laws seems to remain to give effect to the undoubted will of the vast majority of mankind."

In other words, Mr. Root proposes to establish an international criminal law with sanctions.

This raises the question: What is an adequate force to maintain international law? And this in turn raises the question of the function of force in international affairs.

Here is where the deepest confusion of thought lies in most of the popular discussions on the subject. The militarist says, "Force is our only final protection

against utter annihilation; therefore, nations must be overwhelmingly prepared." The pacifist says, "If you prepare for war, you get what you prepare for." Both militarist and pacifist claim the World War furnishes irrefutable proofs of their contentions.

When two great patriotic groups sincerely take diametrically opposite points of view on the same question, the chances are that the shield has two sides. The misunderstanding, I think, results from the failure to recognize the threefold function of force in international relations. Force may be:

- (1) Aggression, or force used for attack;
- (2) Defense, or force used to repel attack;
- (3) Police force, or force used to maintain law and order.

Aggression is usually, if not always, bad. It means the imposition of one's will on another without the other having the right to be heard in its own defense. This kind of force has long since been outlawed in all individual and group relations except in the international realm.

Defense must continue as long as there is a probability of aggression. At best, defense is a glorious duty. At worst, it is a necessary evil.

Police force is wholly good, for the policeman maintains law and order. This function is essentially different from that of a battleship. The battleship, as Theodore Roosevelt has said, "uses the maximum amount of force to pound the enemy into insensibility." There is little or no room for reason to play a part in this procedure. The policeman uses the minimum amount of force to bring the culprit before the law, which then takes its usual course.

The problem of disarmament, therefore, is how to reduce the force used for aggression to international police and keep it there, for manifestly the necessity of defense will automatically cease when the danger of aggression is past.


How large a police force is necessary to assure the resort to law? This depends on the state of civilization. The principle would seem to be that the forces of righteousness should always keep a force adequate to cope with any ordinary outbreak by the forces of unrighteousness. If the police force is insufficient for this task, it may invite war.

THREE STEPS TOWARD DISARMAMENT

FOR twelve years now the League of Nations has been making an exhaustive and constructive study of the disarmament problem. Out of their study it has become perfectly clear that the nations cannot and will not disarm until, after disarmament, they have the same or greater protection from the other nations who will come to their aid if wantonly attacked, that they had previously from their armaments. But such security in turn is predicated on universal arbitration, for if a nation is allowed to make war legally without laying its case before the bar of world public opinion it would be unsafe for any nation to lay down its arms and throw away its final effective means of self-preservation. The path to peace, as far as disarmament is a factor in the case, is, therefore, (1) compulsory arbitration, (2) security, and (3) disarmament. Owing to the exceptionally

favorable situation of the United States, the problem of security has received little consideration in America. We look on the problem rather as one merely of arbitration and then disarmament. The nations of Europe, however, will certainly insist on security before they will limit their armies and navies.

THE ISSUE BEFORE AMERICA

 HE Senate up to the present moment has blocked every concrete attempt made by an American President along these lines. It blocked Roosevelt's arbitration treaties with twenty nations. It blocked Taft's great arbitration treaties with Britain and France. Worst of all, it blocked Wilson's League of Nations. It blocked Harding's and Coolidge's World Court proposals, and it will probably reject Hoover's efforts.

Nevertheless, reason must be enthroned and force dethroned as the arbiter of human destiny—Senates and even constitutions to the contrary notwithstanding.

The issue, therefore, before the American people, the issue which will never be settled until it is settled rightly, is a choice between international cooperation, that leads to peace, and international competition, that leads to war!

If the foregoing argument be sound, our armaments can never be radically reduced until America adopts the first alternative—international cooperation. We must work for a world court. Not only must all nations form it, but all must submit to its jurisdiction. Before we can have a perfect international legislature all nations must join the League of Nations and send representatives to its Assembly, which must abandon its rule of unanimity for a more liberal one whereby a majority or two-thirds of the nations can pass a law. In other words, the Assembly must be changed from a diplomatic into a constitutional body. Before we can have a perfect world, executive nations must abandon some of their national sovereignty in return for greater international security. The executives must eventually be a unit and not a collection of sovereignties.

BACCALAUREATE ADDRESS

Blue Ribbon Humans

by

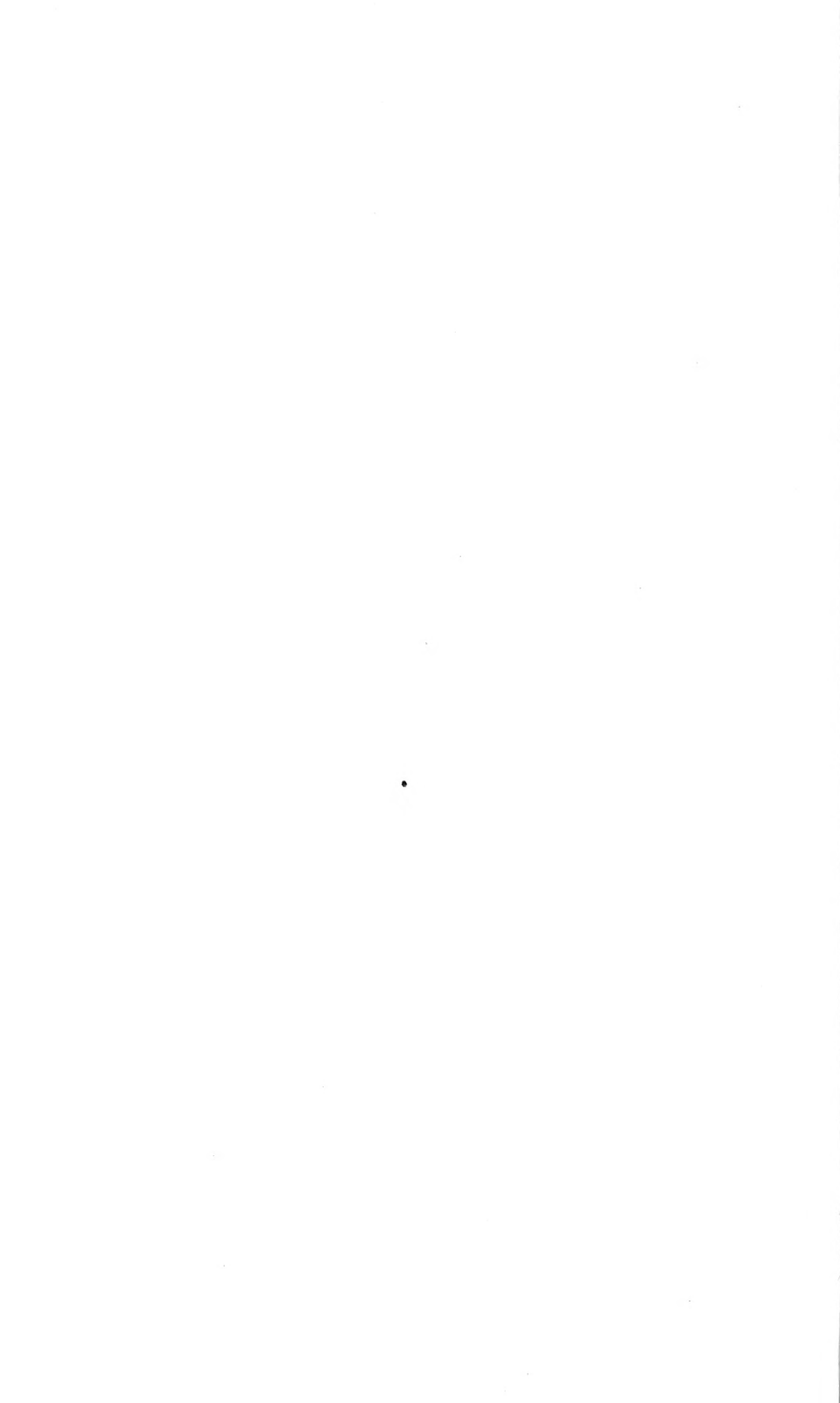
FREDERICK F. SHANNON, D. D.

Pastor, Central Church of Chicago



University Auditorium

January 31, 1932



Blue Ribbon Humans

IN THE rush of twentieth century life the idea of any practical relationship between Heaven and horses is quite remote. Yet, if a blue ribbon is suggestive of Heaven, then these were on at least speaking terms during a memorable evening at the Chicago Driving Club. It came about in this way: A seventeen-year-old girl in Champion, Nebraska, had a mustang pony that jumped her fences, no matter how high they were. His name was Aviator, and his performance that evening showed that he lived up to his name.

"Why not turn Aviator's skill in jumping to practical account?" reasoned the lass from the prairies. So she proceeded to answer her own question in a pragmatic way. Having heard of the hurdle-jumping contest featured by the Chicago Driving Club, she decided to enter her mustang. "But Chicago is a thousand miles distant," argued her father. Besides, he thought the society people would not allow a scrub to contend against their thoroughbreds.

But the girl knew better, and she also knew how to get Aviator to Chicago. Loading him on a trailer, and hitching the trailer to a flivver, she turned up at the fashionable driving club in due time.

The next thing was to get her mustang entered. For, be it remembered, this horse show is a society event of the first water. Nothing but thoroughbreds are allowed to compete, and Aviator—well, none of his descendants had come over on the Mayflower; the fact is, he had never seen the steerage, the sea, nor had he heard of Xenophon's march thereto. Now there is no record of what the thoroughbreds themselves said on being required to contest with such an unpedigreed fellow-animal. However, my guess is that there is enough human nature in horse nature to warrant us in assuming that, on looking the ungainly mustang over, they just gave him a long, inward horse laugh!

If so, they laughed entirely too soon. For, after Aviator had finished with them, one and all, in that tanbark arena, not even their pedigrees, supplemented by sparkling livery and haughty groomsmen, could prevent the three thousand auditors demanding a special blue ribbon for the unheralded mustang from the plains.

Consequently, humans, horses, and Heaven do touch and play into each other in our machine age. "Put upon the fringe of each border a ribbon of blue"—that was a part of the ancient Hebrew's dress symbolizing something of the heavenliness supposed to characterize his life. Symbols, however, are not equal to the substance, the eternal reality, believers find in the Christ of God. And, therefore, what is the world itself but a kind of arena for fashioning and exhibiting Blue Ribbon Humans?

I

CONSIDER that the Blue Ribbon Human must win a *Christianized Individuality*. Whatever else we may say of Aviator, we must confess that he was a marked individual in the horse kingdom. Of course there is a long story back of his singularity. For instance, there is the fact of heredity. The mustang, a semi-wild horse, was imported to our western prairies by the Spaniards in the sixteenth century. There is also the factor of environment to be considered.

Wild, untamed, having no master, as the Spanish word *mustang* implies, Aviator had his setting amid wide prairies and under many-colored skies.

Yet neither heredity nor environment can tell the whole story of a horse or a human. Even within clearly defined laws of mechanism, which govern in the inorganic and non-human orders, there is a certain element of freedom. Much more, then, in the organic, animal, and human realms there is at work a majestic volitional power which, under God, accounts for the difference in the caveman and the cultured Christian. Our ancestors do ride us hard, both for good and ill; our environment, too, does set its mark upon us, both for weal and woe; but there is something within each of us—a mystery of individual dissimilarity and distinctiveness—that marks us off, abysmal and alone, not only from every other rational creature but from God Himself.

True education, then, means that each of us must win our own full-orbed individual being out of the infinite being of Personal Reality named God. We must cleave our way, so to speak, through opposing walls of matter, energy, heredity, and environment into the unfailing presence of the infinitely near and dear God and Father in Whom we live and move and have our being. And to do this, there must needs be a continuously Christianized individuality.

Now what does this signify? First, to put it negatively, it means that we shall not go off on a tangent; that we shall not be one-sided intellectuals, one-sided emotionals, or one-sided volitionals. Rather we are to realize the beauty, vitality, and poise of one of the richest phrases in human speech—the apostolic loftiness and loveliness of “a sound mind;” a mind which expels the spirit of fear, of secularity, of hypocrisy, of partisanship, of insularity, of mean, constricting nationalism; a mind that is sound enough for the Soul of the Universe to function through while it is spiritual and sympathetic enough for the teeming human world to live within.

I have a letter, written on Fifth Avenue stationery, and beautifully composed, which begins with this question: “Do you believe in dreams?” I replied: “I not only believe in dreams, but I have them; furthermore, like Daniel, I am an interpreter of dreams.” Then I related the following dream with the interpretation thereof. I dreamed (which is actually true insofar as this kind of dreaming is) that I saw a boa-constrictor twenty-three feet, three and one-half inches in length—and be sure to remember those inches, if you would wisely evaluate my dream’s significance! While I looked, and in Byronic phrase, a change came over the spirit of my dream, for that huge serpent was suddenly transformed into a gorgeous, many-colored bird.

But now for the interpretation of my dream: That very day I had reread a chapter of natural science which teaches that birds, in the processes of physical evolution, have developed from snakes. “But,” you ask, “what of those fractional three and one-half inches?” Ah! that is something concerning which I shall now enlighten you! That very evening at dinner I ate—through the loving-kindness of our hosts of the Heart’s Delight Farm—*three delicious sausages exactly three and one-half inches in length!*

No! not even on the negative side is Christianized individuality the victim of dream-stuff—behavioristic, atavistic, or otherwise. Its very soundness and continuously creative sanity makes it eentripetal, causing it to seek the Father of our spirits—at once the “Center and Soul of every sphere,” even while He indwells every

loving heart with His "infinite nearness," in Doctor Hough's vigorous and illuminating phrase.

The second implication of Christianized individuality is this: There is an enriching difference at the very heart of our deepest resemblances. If infinite variety, as Alfred Russel Wallace sought to prove, is one of the wonder-smiting laws of the physical universe, how much more marvelous is the all-glorious variety in the human order! Indeed, centuries before Wallace, a spiritual seer was profoundly aware of the thrilling variousness in the heavens, the air, the earth, and the sea. "Flesh is not all the same," says Paul; "there is human flesh, there is flesh of beasts, there is flesh of birds and flesh of fish. There are heavenly bodies and also earthly bodies, but the splendor of the heavenly is one thing and the splendor of the earthly is another. There is a splendor of the sun and a splendor of the moon and a splendor of the stars—for one star differs from another in splendor."

Words, then, can scarcely more than suggest this "milky way of souls,"—these human universes, shall I say, in whom so much of the macrocosm itself is wondrously concentrated, and in whom, also, there is *That* which the billion-miled cosmos does not, and cannot, contain—even the High and Lofty One who inhabits eternity, and yet who delights to be domesticated and humanized in that imponderable individual human universe wrought of matter and mind, splendor and shame, tears and timelessness.

There has never been anybody like you; there never can be anybody like you; your pattern of individual being has no absolute resemblance save in the mind of God. Therefore, you must make your unique and solitary edition of soul according to the pattern shown you in the mount of God in Christ. The saint of Clairvaux was wont to ask himself: "Bernard, wherefore art thou here?" Your answer and mine should be: "I am here to help God crown His physical universe with those far more wonderful individual human universes who, like the apostle, are dying daily only to daily come alive from the dead to live the life that is life indeed." Having leased our individuality to God in Christ—not for ninety-nine years but for time and eternity—we shall growingly venture up to the edge of the apostolic abyss of wonder and beauty. Shouldering out the stars even as we lovingly lean over and look down, perhaps a more than cosmic music shall issue neither from worlds above nor from worlds below but from a redeemed and redeeming soul within: "It is no longer I that live, but Christ liveth in me."

Little wonder, therefore, when an upstanding individual appears, the thoroughfares of being open before him. He may be most unwelcome—laughed at, jeered at, sneered at. Men may also make short shrift of him. No matter! The universe is on his side because he is on God's side. Sooner or later, after the mockery, shame, and misunderstanding have passed like an unpleasant dream, he stands forth in ethical and spiritual grandeur, even as a noble peak at the end of a day of murk and gloom is fired with the purples and golds of sunset.

II



HINK, moreover, of the Blue Ribbon of *Christianized Adaptation*. Aviator wore cotton flannel bandages on his knees because his feminine owner was not certain how he would behave in strange surroundings. Fearing that he might become stage-struck, so to speak, and bunglingly knock the skin off his forelegs in taking the hurdles, the adventurous young horsewoman took the

precaution of using these bandages. Fortunately, Aviator did not need them: as he leaped through the air some thought that he was about the nearest approach to Pegasus, the winged horse of myth, ever seen in this part of the universe. Why, he took the air as a swallow takes the breeze, as a fish takes the water. He was a kind of Colonel Lindbergh conquering space, sailing so high and withal so gracefully that onlookers wondered if he would ever come down into the tanbark arena again.

Great, indeed, is the blue ribbon of adaptation, my young friends. Self-adjustment is the capacity that enables us to stand, to walk, to run, to jump—to accept the manifold challenges life is constantly issuing to every one of us. Ours is a world which requires the continuous adjustment of every thing and every creature within it. And is it not in this process of adaptation that we become educated? You are here in this graduating class tonight because you have partially succeeded in harmonizing yourselves with the requirements of this university. But remember that this is only a beginning; it is just one step, but a tremendously important one, in the long road of education which, though it may have many turnings, has no ending.

For example: Some of you will be educators or lawyers or scientists or physicians or preachers or farmers or merchants or bankers or mechanics or statesmen. No matter what your work may be, you will be compelled to align yourselves with its unceasing requirements. And the alignment, as every one in the process of becoming educated very well knows, spells success or failure. Your records here tell a great deal, but they can not tell all there is to be told in the mysterious tale of life. Your leaders in school life, the men and women of initiative and brilliance, ought to be the leaders also in *the school of life*. And, to be sure, many of them will be just that; and, to be sure, also, many of your most capable students will not prove so capable in meeting the challenge of actual experience.

You may reply, in the face of these facts: "Why play up a truism?" Well, this is why: *Life itself is our chief curriculum*. To carry on out there in that undiscovered realm named experience is the ultimate test for each of us; and to carry on with any adequate method of inner conquest over self and circumstance demands the mustang's spirit and mettle of adaptation.

This, I am convinced, after making due allowance for luck, good and bad, accounts for the difference in the true and false success realized by human beings. Just here, necessarily, we face the reality forced upon us by standards dealing with the sensual and spiritual aspects of humanity. Most of us are plainly under the sway of the sensual; we think and act as if our bodily needs are first and only; or else we train the intellect, chiefly, that it may pay tribute to the god of getting on, actually spelling his name with a small "g" even while we brazenly capitalize the motive by which we are held within his idolatrous power! Thus do these two aims—physical and intellectual dominion—constitute the outstanding educational ideal of human history. And they are utterly inadequate—as verified by history made, by history in the making, and by history that shall be made according to these false standards. For when and where the physical and intellectual either ignores or opposes the essential and self-evidencing spirituality of the universe and of human life, there can be, at most, only a seeming success which invariably turns upon both the society and individual enamored of its false glitter and mocks them with sneers and jeers and scorn.

Our age is crowded with disillusioned people; they are all over the world and they are found on every plane of society. Thinkers like Spengler foretell the doom

of Western civilization. But why limit the doom to the civilization of the West, if civilization itself rests upon the mud-sill of sensuality and intellectual conceit? Foreordained to self-doom is the society or the individual which deliberately divorces body and brain from the Soul of the Universe. This fact is so self-evident that all one has to do is wisely and widely appraise the de-spiritualized society and individual; after its splurge of pride and conceit, each is inevitably turned into the hell of futility and helplessness. To that question proposed by the Eternal Galilean, What profit is it for a man and a society to gain the whole world and forfeit their soul? both alike answer with an ageless affirmative: "There is no profit under the sun; the result is gloom and doom!"

Believe me, my young friends, both we and our civilization must master, continuously, the secret of adaptation if we are to survive and triumphantly take the hurdles of life. And that secret cannot be disclosed by a shallow, piecemeal education, touched here and there by an impotent intellectualism and motivated throughout by sheer sensuality and sensuousness; now and forevermore the secret of the Lord is with them who fear Him and daily adapt themselves to His high purpose and goodwill—even as the vessel adapts itself to the waves by which it not only survives the deep but makes the port for which it is bound.

III

WE consider, finally, the Blue Ribbon of *Christianized Beauty*. Aviator, let me impress upon you, was not much to look at. He was almost as homely as they grow. He had no lines, no curves; he had visited no beauty parlor in the horse kingdom before making his appearance among the thoroughbreds and the social leaders of Chicago. The fact is, that mustang's homeliness set me to working out a definition of beauty; after much travail in the loins of logic and untold mental pain in the categories of psychologic behaviorism, the following was brought forth: *Beauty is not a complex composed of chemical compounds*. Before the depression, it was estimated that American women were spending two billions every year on outer self-beautification, if such it may be described; therefore, the definition may not be without definitive meaning at this time.

There are two kinds of beauty. One is external; it has to do with form, with appearance, and it has a large and worthwhile place in the material world and in human society. The Infinite Artist has indeed made everything beautiful in its time. Both nature and human nature, at their best, are manifestations of the beauty inherent in the nature of things. From Praxiteles to Rodin, from Raphael to Romney, from the first to the last painter, sculptor, musician, and poet—all are God's merchant-middlemen dealing in forms, colors, sounds, and words that enrich the soul of man. We dare not depreciate the value of external beauty waiting everywhere to be appropriated by sensitive souls.

The second and deeper aspect of beauty, however, is internal; it is related to the higher endowments of the mind; it pertains to, and is definitely controlled by the Spirit of God in originating and directing our volitions and affections along lines of absolute worth and unexhausted meaning. It is indeed the ultimate beauty, the divine answer to the psalmist's prayer, "Let the beauty of the Lord our God be upon us;" or, as Moffatt renders it, "Lord, may thy loving favor rest on us." What a commentary, too, the preceding verse is upon the final loveliness, "Let thy

servants see thee at thy saving work, and let their children see thy glorious power." Think of it—"Saving Work! Glorious Power!" Is there not more than a hint of absolute beauty in the "saving work" through which God's "glorious power" operates at its own heavenly highest?

The final beauty, then, is spiritual and moral; it smites the physical and intellectual through and through with its white and warm and meaningful majesty. Certainly classic forms and lines do the best that can be done in their class; God in Christ simply outclasses them, functioning in and through realms beyond their reach. Scholars say that the epithet, "classical," which refers specifically to Greek and Roman authors, "is determined less by the purity of their style than the period at which they wrote." They were great masters in literature as well as in art—the centuries are agreed upon this. Yet, not even the purity of their style and the golden age in which they wrought could move them into the spiritual dawn which burst upon mankind with the Birth at Bethlehem. That gathers up and retains all that is excellent before it; moreover, it blazes its own spiritual trail within God's self-realizing present; and, furthermore, it controls the completing future which lies embosomed in the Heart of the Infinite.

A moment ago I used the name of Romney, the celebrated portraitist of the eighteenth century. I think of four people who were somewhat closely related to Romney's career. Three of them are famous, while the fourth is comparatively unknown. The first is Emma Hart, accounted among the most beautiful women of her time. Along with her natural physical charm she was also a natural courtesan—to the manner born, one might almost say. First the mistress, then the wife of Sir William Hamilton, diplomat and archeologist, she later formed socially entangling alliances with Admiral Nelson, the hero of Trafalgar. Meantime, she had become the model of George Romney. Her face looks out from many of his canvasses—now as a Cassandra, a Bacchante, a Circe, a Magdalene, or a Joan of Arc. Romney said that she inspired what was most beautiful in his art; but his biographer says that the two of them together finally ruined both his health and his mind.

What of that fourth and relatively unknown figure in Romney's life? Well, she was the peasant girl who became his wife at twenty-two and the mother of his children. It is said that he married her, somewhat impulsively, after she had nursed him through a fever. At any rate, after five years he left his family, went to London, Paris, Italy, and then returned to the English capital and entered upon an artistic career that marked him somewhere between Reynolds and Gainsborough. But, mark you, after leaving his family at the age of twenty-seven, he never returned, except for brief visits, until he came back "a broken-down and aged man, to die."

Now, it is just here that this fourth figure in Romney's life comes out of the shadows and shines like an angel of God. That once peasant girl-bride, no longer young, broken and bent beneath the burden of life, took him back and nursed him as tenderly as she had nursed him in the long years before their locks of gold had been touched by the whitening snows of age. Once again there came a woman to break her alabaster of love not upon a worthy but upon a most unworthy master.

Ah, me! Here is the quality of beauty that does not rub off! It is the beauty of the Lord, the beauty of holiness, of wholeness, and of wholesomeness; and this is the beauty that *wears in and in* after the whitewash of cosmetics, of culture, of patriotism, of even genius itself, have *worn out and out*—so tattered, thin, and

threadbare that only the Christ of God Himself can gather up the frayed ends of a misspent humanity and fashion it anew according to Heaven's own patterns of justice, mercy, truth, and love.

When President Wilson was being hounded and slandered, Ray Stannard Baker suggested that our Chief Magistrate allow him to release documents in his possession that would more than answer partisan enemies and deliberate traducers. Calmly as the rising of the sun or the going down thereof, Woodrow Wilson said to his biographer: "Don't worry; the truth is not a cripple; it can run alone."

Yes, truth can run alone because, as Keats sang, beauty is truth and truth is beauty, adding that this is all we know and all we need to know on earth. But how do we come *into* and *by* the deeper knowing of beauty and truth? By outward forms, by beautiful curves, by artistic lines? Somewhat, but not entirely! It is *in* and *by* Him who says, "I am *the* truth." When He has gone like creative music into our being, then do we become conscious of that which the physical universe strives in vain to say or impart; we then know that our feet are set in the ways everlasting because Everlasting Love, Everlasting Truth, and Everlasting Beauty journey within us as we go along together—God and our Souls—the ways that last forever both in their excellence and permanence. Therefore, as spiritual crusaders, it is at once our duty and privilege to rededicate ourselves, here and now, in the spirit and beauty of the "Crusader's Hymn":

"Fairest Lord Jesus;
Ruler of all nature!
O thou of God and man the Son!
Thee will I cherish,
Thee will I honor,
Thee, my soul's glory, joy, and crown.

Fair are the meadows,
Fairer still the woodlands,
Robed in the blooming garb of spring;
Jesus is fairer,
Jesus is purer,
Who makes the woeful heart to sing.

Fair is the sunshine,
Fairer still the moonlight,
And all the twinkling starry host;
Jesus shines brighter,
Jesus shines purer
Than all the angels heaven can boast."

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OTHER DEPARTMENTS

For the faculty of other departments offering optional or required courses in the various curricula of the College of Commerce and Journalism, see the bulletins of the College of Arts and Sciences, the College of Engineering, and the College of Agriculture.

*Academic year 1931-32

GENERAL INFORMATION

HISTORY

The College of Commerce and Journalism had its beginning in 1925. In that year the School of Business Administration and Journalism was established in the College of Arts and Sciences. The Dean of that College was placed in charge. In the fall of 1926 a special director was appointed and the School, though still in theory a part of the College of Arts and Sciences, began to operate as a separate unit. Out of this unit the Board of Control in the spring of 1927 created the College of Commerce and Journalism, with a dean and faculty of its own, and made it coequal in every respect with the other colleges of the University.

OBJECTIVES

The College of Commerce and Journalism offers instruction in two distinct fields of professional or semi-professional effort: business administration, and journalism.

Business Administration.—Instruction in Business Administration is designed to provide analysis of the basic principles of business. Its purposes are to prepare students (1) to become business executives; (2) to assume the increasing responsibilities of business ownership; and (3) to act in the capacity of business specialists.

Modern business is highly complex in character. The business world is made up of a multitude of specialized business units. These units not only compete, but also cooperate with each other in creating goods and services for the satisfaction of human wants. Those who would enter the field of business must understand the economic organization of society; must be familiar with the fundamental elements of business management; must develop facility in the use of quantitative instruments in the determination of business policy; and must recognize the larger relationships between business leadership and general social well-being. To perform these functions they must give attention to cultural as well as professional values.

Business education involves consideration of the following occupational levels: (1) upper levels composed of proprietors and executives, (2) intermediate levels composed of department heads and minor executives, and (3) lower levels composed of clerical and routine workers. The scope of business education includes preparation for all of these levels. While the College of Commerce and Journalism has organized its curricula in business administration to prepare students primarily to occupy the upper and intermediate levels, it has not entirely ignored the lower levels. While no short curricula have been provided, students who cannot spend four years in preparing for the upper and intermediate levels will find courses that will be of great assistance to them in preparing for the lower levels.

Journalism.—Instruction in Journalism proceeds upon the belief that the press is a social institution, and that the increasing appreciation of its functions as an educational agency creates a demand for thorough preparation,

educationally and ethically as well as technically, for journalistic endeavor. The makers of modern newspapers and periodicals are compelled to deal with all phases of complex modern life and civilization, and those who would participate in journalistic activities as news writers, as creators or directors of public opinion, or as owners or managers of newspapers must possess thorough training in English, history, economics, sociology, psychology, government, business management, etc., as well as in the technique of newspaper procedure. The purpose of university instruction in Journalism is to accomplish, if possible, these difficult objectives, and to help develop such abilities of future newspaper workers as may lend assistance to solving the increasingly difficult problems encountered by the press.

The College of Commerce and Journalism does not profess to turn out finished business managers, executives, department heads, or minor executives. Neither does it profess to produce finished newspaper men. Its various curricula provide instruction that will help to shorten the period of apprenticeship for those who expect to enter commercial and newspaper occupations. Those who have learned business or newspaper fundamentals in this College must become finished business and newspaper men by actual practice, just as those who have learned the principles of law or medicine in other colleges become finished lawyers and physicians by actual practice.

BUSINESS AND NEWSPAPER CONTACT

Formal training cannot take the place of actual experience. Students registered in Business Administration and Journalism are urged to secure positions with business enterprises and newspapers during summer vacations. They should choose types of occupation that will harmonize with their particular fields of specialization. In this way they can secure valuable experience; they can become acquainted with the technique of business and newspaper operation; and they can better coordinate classroom instruction with actual business practice.

PREPARATION FOR INITIAL POSITIONS

While the College of Commerce and Journalism does not attempt to offer specific types of training programs for specific types of positions, it does offer certain courses that will assist students in securing and holding initial positions. Some of the courses in Accounting and some of the courses in Journalism are of this character. Business Administration 83, in which typing is taught, and Business Administration 85-86, in which shorthand is taught, are courses that will be especially serviceable to students in securing initial positions and in making their advent into business.

BUILDINGS AND EQUIPMENT

The College of Commerce and Journalism occupies quarters in Language and Buckman Halls. The following offices are in Language Hall: The office of the Dean and Assistant Dean, the office of the Head of the Department of Journalism, the office of the Bureau of Economic and Business Research, and

the offices of three or four faculty members. The rest of the faculty members have offices in the north end of Buckman Hall.

The accounting and statistical laboratories, the economic geography laboratory, and the journalism laboratory are in Language Hall. The typewriting laboratory is in Buckman Hall. In these laboratories students are provided with desks, tables, adding machines, typewriters, and other types of equipment. Class rooms are located in both Language and Buckman Halls.

The College does not have special library or reading rooms. All books, reports, and magazines are located in the University Library. Comfortable reading rooms are maintained there for the use of these books, reports, and magazines.

SCHOLARSHIPS, ASSISTANTSHIPS, AND FELLOWSHIPS

The American Bankers' Association Foundation for Education in Economics offers one annual loan scholarship amounting to \$250. This scholarship is open only to students in business administration. There are several other scholarships open to students in this College along with students in other colleges of the University. For a description of these scholarships see the *Bulletin of General Information*.

The College of Commerce and Journalism has three undergraduate assistantships in Economics and Business Administration and one in Journalism. These are awarded annually. They carry a stipend of \$200 each. Students receiving the awards read papers or act in the capacity of laboratory assistants. To receive and hold these assistantships they must maintain an average grade of B.

There are two research assistantships in the Bureau of Economic and Business Research. They are awarded annually and carry a stipend of \$400 each. There are two graduate assistantships in economics and business administration. They are awarded annually and carry a stipend of \$450 each. Students holding the former assistantships are required to render 20 hours of service per week in connection with the Bureau of Economic and Business Research. Students holding the latter assistantships are required to render 20 hours of service per week in reading papers or acting as laboratory assistants. Neither research nor graduate assistants are allowed to complete the requirements for the Master's degree in one academic year of nine months. While they may complete their course requirements, they will have to remain for the summer session to finish their Master's theses. They may be eligible for re-appointment to these assistantships the second year. To become applicants for these assistantships, students must have completed their Bachelor's degree and must have maintained an average grade of B in their undergraduate courses.

SUMMER SESSION

The College of Commerce and Journalism operates during the Summer Session as well as during the regular session. While only a limited number of faculty members are present during the Summer Session, the courses offered, the regulations followed, and the credit given are the same as during the regular session.

ADMISSION

GENERAL REQUIREMENTS

For full information concerning the general requirements for admission to the University of Florida, the prospective student should consult the *Bulletin of General Information*, pages 149-158.

SPECIAL REQUIREMENT

In addition to meeting the general requirements for admission to the University of Florida, in order to be admitted to the College of Commerce and Journalism the candidate must present two units of one foreign language.

REGISTRATION

For information concerning registration, see the *Bulletin of General Information* for 1932-33, page 155.

SPECIAL STUDENTS

Persons twenty-one or more years of age who cannot satisfy the entrance requirements, but who give evidence of ability to profit by the courses they may take, may, under exceptional circumstances, be admitted as "Adult Specials." They are required to comply with the same regulations as regular students.

GRADUATE STUDY

Both the Department of Economics and Business Administration and the Department of Journalism, under the jurisdiction of the Graduate School of the University, offer graduate courses leading to the degrees of *Master of Arts*, and *Master of Science in Journalism*. Ordinarily, requirements for the above degrees may be completed in one regular academic year. See the *Bulletin of the Graduate School*.

FEES

All students regularly registered in the College of Commerce and Journalism are charged a special annual registration fee of \$10.00. A fee of \$1.00 per semester hour is charged other students taking the following courses: All courses in Journalism, and all courses in Business Administration not marked "E".

In addition to these special fees, several annual fees are charged all students registered in the University. Students who are not legal residents of the State of Florida are charged a non-resident fee of \$100, payable \$50 per semester. For details concerning these fees, see the *Bulletin of General Information* for 1932-33, pages 159-160.

LIVING EXPENSES

For an estimate of the annual living expenses of the average student registered in the University, see the *Bulletin of General Information* for 1932-33, pages 161-164.

SPECIAL INFORMATION

RULES AND REGULATIONS

Upon registration, each student should secure a copy of the *Bulletin of By-Laws*. He is held responsible for the observance of all regulations contained therein as long as he is connected with the University of Florida.

LECTURES BY BUSINESS EXECUTIVES

It is the policy of the College to invite from time to time prominent business executives both from within and from without the state to address the students in business administration. Students in journalism are addressed at various times by speakers who are engaged in the work of editing or publishing newspapers.

ADVISORY BOARD OF NEWSPAPER EDITORS

The Florida Press Association appoints each year an Advisory Board to act in an advisory capacity to the Department of Journalism. The members of the Board for the year, 1932-33, are: Harry Brown, *Gainesville Sun*; Henry H. Hudson, *Titusville Star-Advocate*; Mrs. Lucille R. Smith, *Lake Worth Herald*; J. E. Worthington, *Lake Wales Highlander*; R. W. Simpson, *Tampa Tribune*; Nate E. Reece, *The Arcadian*; Charles P. Helfenstein, *Suwannee Democrat*; and Elmer J. Emig, *University of Florida*.

BUREAU OF ECONOMIC AND BUSINESS RESEARCH

The College of Commerce and Journalism maintains a Bureau of Economic and Business Research which provides faculty members and graduate students with an opportunity to engage in specific types of research work. Its activities are coordinated with the research activities of the College as a whole.

MEMBERSHIP IN NATIONAL AND REGIONAL ASSOCIATIONS

The College of Commerce and Journalism was admitted to membership of the American Association of Collegiate Schools of Business in 1929. The College is also a member of the Southern Economic Association.

BUREAU OF PLACEMENTS

A Bureau of Placements is maintained by the University for the purpose of assisting graduates in securing positions. While appointments are not guaranteed, every effort is made to place those who make worthy records.

STUDENT ORGANIZATIONS

Commerce Club.—The Commerce Club was founded in 1924 by a group of students majoring in Economics and Business Administration. Meetings are held weekly for encouraging and developing critical interest in current problems in the fields of commerce and industry, special attention being given to the economic progress of Florida. The Club is represented on the Debating Council of the University and competes with the various colleges on the campus

for debating honors. All students in Business Administration are eligible to membership.

Fourth Estate Club.—The Fourth Estate Club is an organization composed of all students who are studying journalism, together with those who are interested in the subject although they may not be pursuing journalistic courses. The purposes of the Club are to promote journalistic activities on the campus and to foster things of interest to newspaper men.

Alpha Kappa Psi.—The Alpha Phi Chapter of Alpha Kappa Psi, a national professional commerce fraternity, was established at the University of Florida in January, 1926. Its purpose is to afford a social and professional contact among the students of business administration, and to cooperate with the faculty in furthering the interests of the College of Commerce and Journalism. The membership is made up of men whose interests are broader than the classroom, and whose personalities and individual characters give promise of business success. Only those students of the sophomore class or above are eligible.

Delta Sigma Pi.—Beta Eta Chapter of the International Fraternity of Delta Sigma Pi is a fraternity organized to foster the study of business in universities; to encourage scholarship and the association of students for their mutual advancement by research and practice; to promote closer affiliation between the commercial world and students of commerce; and to further a higher standard of commercial ethics and culture and the civic and commercial welfare of the community. It is also the aim of the fraternity to promote a closer relationship among the members of the College of Commerce and Journalism through social and professional meetings. In order to be eligible to membership, a student must be prominent in scholarship, activities, and actual or potential leadership. He must be enrolled in the Department of Business Administration pursuing either regular, pre-law, or pre-engineering courses; he must have a minimum of thirty hours of university credit with at least a C average; and he must be of good moral character and not a member of any other professional commercial and business administration fraternity. The local chapter was installed at the University of Florida in December, 1929.

Beta Gamma Sigma.—Beta Gamma Sigma is a national honorary commerce fraternity. The purposes of this fraternity are to encourage and reward scholarship and accomplishment along the lines of business activity among students and graduates of this college; to promote the advancement and spread of education in the science of business; to foster principles of honesty and integrity in business practice; and to encourage a more friendly attitude of the business public toward graduates of commercial courses. Membership is taken from among those who rank by weighted average in the upper one-fifth of the junior and senior classes.

Sigma Delta Chi.—The Florida Chapter of Sigma Delta Chi, international professional journalistic fraternity, was installed at the University on February 9, 1929. It seeks to promote the welfare and highest ideals of newspapers and magazines. The personnel bureau of the fraternity attempts to obtain positions for members and to find better positions for members already engaged

in the profession. Membership in the fraternity is the highest honor to which a journalism student can attain.

DEGREES

Two undergraduate degrees are offered in the College of Commerce and Journalism: *Bachelor of Science in Business Administration* and *Bachelor of Science in Journalism*.

THE CURRICULA IN BUSINESS ADMINISTRATION

The College of Commerce and Journalism offers three types of curricula leading to the degree of *Bachelor of Science in Business Administration*: first, the Curriculum in Business Administration Proper; second, the Curriculum in Combination with Engineering; and third, the Curriculum in Combination with Law.

THE CURRICULUM IN BUSINESS ADMINISTRATION PROPER

The Curriculum in Business Administration Proper extends over a period of four years. It contains both general courses and professional courses. The first two years are devoted wholly to required subjects largely cultural in nature and are intended to provide the student with a broad intellectual foundation. The last two years provide an opportunity for professional specialization directly in the field of business.

When the student has completed his freshman and sophomore years, he is required to elect one of eight groups of studies (described on pages 279-282) and strictly adhere to this group throughout his junior and senior years. These eight groups are arranged in such a way as to represent the principal fields of business and to provide the student with an arrangement of courses leading to professional specialization in the field that best fits his needs and interests. In all of these groups are certain required courses of a pervasive nature which are designed to acquaint the student with the underlying principles of business organization and management common to all types of business enterprises.

In most cases each group contains six semester hours of approved electives in the junior year, and four semester hours in the senior year. If the student so desires, he may elect foreign language in the first two years and postpone Political Science 101-102 and Philosophy 201-206 to his junior and senior years. If he makes this choice, his approved electives will consist of foreign language. If he does not elect foreign language, he may be permitted, *provided he shows adequate cause therefor*, to elect six of the ten semester hours of approved electives in any department of the University. The remaining four semester hours must be taken in Business Administration.

For students who neither elect foreign language nor avail themselves of the privilege of taking six semester hours from any department of the University, but who desire to elect the ten semester hours for which provisions have been made from Business Administration, the following courses listed under each of the following groups are *suggested*:

- I. GENERAL BUSINESS: Business Administration 83, 85-86, 331, 404E, 423, 381E, 435E, 461, 468, 485, 470E.
- II. ACCOUNTING: Business Administration 83, 85-86, 422, 429, 430E, 423, 426E, 454E.
- III. RISK-BEARING AND INSURANCE: Business Administration 83, 85-86, 331, 422, 404E, 423, 426E, 465, 466.
- IV. MARKETING: Business Administration 83, 85-86, 331, 332, 381E, 422, 469E, 440, 442, 385E, 489.
- V. BANKING AND FINANCE: Business Administration 83, 85-86, 331, 429E, 435E, 436, 404E, 470E, 485E, 468.
- VI. ECONOMIC GEOGRAPHY AND FOREIGN TRADE: Business Administration 83, 85-86, 432, History 203-204, two years of foreign language, 485E, 468, Political Science 310.
- VII. ECONOMICS: Business Administration 385E, 461, 436, 487E, 505-506E, 530E.
- VIII. REALTY ADMINISTRATION: Business Administration 83, 85-86, 331, 422, 433, 434, 461, Sociology 112, Agricultural Economics 508.

THE CURRICULUM IN COMBINATION WITH ENGINEERING

The Curriculum in Business Administration in Combination with Engineering also extends over a period of four years. It is designed for students who wish to prepare for administrative and selling positions in the field of manufacturing and railway and public utility operation. The student registers directly in the College of Commerce and Journalism. Most of the courses he pursues in his freshman and sophomore years are engineering courses and are offered by the College of Engineering. There are ten semester hours of approved electives. These may be taken in Business Administration, in Engineering, or in some other department of the University, *provided cause therefor is shown*. All electives must be approved by the Dean.

THE CURRICULUM IN COMBINATION WITH LAW

The College of Commerce and Journalism combines with the College of Law in offering a six-year program of study to students who desire ultimately to enter the College of Law. Students register during the first three years in the College of Commerce and Journalism; when they have fully satisfied the academic requirements of these three years, they are eligible to register in the College of Law and may during their last three years complete the course in the College of Law. When students have, after entering the College of Law, satisfactorily completed one year's work in law, they may offer this year's work as a substitute for the fourth year in the College of Commerce and Journalism, and receive the degree of *Bachelor of Science in Business Administration*. The foregoing regulations, insofar as they apply to admission to the College of Law, become effective Sept. 1, 1933.

Students may postpone Political Science 101-102 and Psychology 201 to the junior years, and elect two years of foreign language as a part of the fourteen hours of approved electives specified in the curriculum. If they do not elect foreign language, they may take three semester hours out of the fourteen in any department of the University *provided cause therefor is shown*. The remaining eleven hours must be selected, with the approval of the Dean, from courses in Economics and Business Administration.

THE CURRICULUM PROPER

Leading to the Degree of Bachelor of Science in Business Administration.

First Semester		Second Semester	
Names of Courses	Credits	Names of Courses	Credits
Freshman Year			
Bs. 101E—Economic History of England	3	Bs. 102E—Economic History of the United States	3
Bs. 103—Principles of Economic Geography	3	Bs. 104—Principles of Economic Geography	3
Eh. 101—Rhetoric and Composition ..	3	Eh. 102—Rhetoric and Composition ..	3
Ms. 107—Elementary Commercial Algebra	3	Ms. 108—Business Mathematics	3
My. 101—Infantry	2	My. 102—Infantry	2
Pcl. 101—American Government and Politics	3	Pcl. 102—State and Municipal Government	3
Pl. 101—Gymnastics	1	Pl. 102—Gymnastics	1
	18		18
Sophomore Year			
Bs. 201E—Principles of Economics	3	Bs. 202E—Principles of Economics	3
Bs. 211—Principles of Accounting	3	Bs. 212—Principles of Accounting	3
Laboratory Science*	4 or 5	Laboratory Science*	4 or 5
My. 201—Infantry	2	My. 202—Infantry	2
Psy. 201—General Psychology	3	Psy. 206—Business Psychology	3
	15 or 16		15 or 16
I. GENERAL BUSINESS			
Junior Year			
Bs. 313—Factory and Distribution Cost Accounting	3	Bs. 302E—Elements of Statistics	3
Bs. 321E—Financial Organization of Society	3	Bs. 322—Financial Management	3
Bs. 341—Production Management ..	2	Bs. 372—Personnel Management	2
Bs. 351E—Transportation Principles ..	3	Eh. 356—Business Writing	3
Eh. 355—Business Writing	3	Approved Electives	3
Approved Elective	3		
	17		17
Senior Year			
Bs. 401—Business Law	3	Bs. 402—Business Law	3
Bs. 409—Business Policy	2	Bs. 410—Business Policy	2
Bs. 429E—Principles of Government Finance	3	Bs. 422—Investments	3
Bs. 469E—Business Forecasting	3	Bs. 0131E—Principles of Marketing ..	3
Sch. 357—Business Speaking	3	Bs. 454E—Principles of Public Utility Economics ..	3
Approved Elective	2	Approved Elective	2
	16		16

*Cy. 101-102; Ps. 101-102, 103-104; or Bly. 121-122. If the student takes eight hours of laboratory science instead of ten, he must substitute two hours of approved electives for the extra two hours of laboratory science.

II. ACCOUNTING

First Semester		Second Semester	
Names of Courses	Credits	Names of Courses	Credits
Junior Year			
Bs. 313—Factory and Distribution Cost Accounting	3	Bs. 302E—Elements of Statistics	3
Bs. 321E—Financial Organization of Society	3	Bs. 0311—Advanced Accounting	3
Bs. 341—Production Management	2	Bs. 322—Financial Management	3
Bs. 351E—Transportation Principles	3	Bs. 372—Personnel Management	2
Eh. 355—Business Writing	3	Eh. 356—Business Writing	3
Approved Elective	3	Approved Elective	3
	17		17
Senior Year			
Bs. 0312—Advanced Accounting	3	Bs. 402—Business Law	3
Bs. 401—Business Law	3	Bs. 410—Business Policy	2
Bs. 409—Business Policy	2	Bs. 414—Income Tax Procedure	3
Bs. 415—Auditing	3	Bs. 416—Advanced Accounting	3
Sch. 357—Business Speaking	3	Bs. 0431E—Principles of Marketing	3
Approved Elective	2	Approved Elective	2
	16		16

III. RISK-BEARING AND INSURANCE

Junior Year			
Bs. 321E—Financial Organization of Society	3	Bs. 302E—Elements of Statistics	3
Bs. 341—Production Management	2	Bs. 322—Financial Management	3
Bs. 351E—Transportation Principles	3	Bs. 362—Property Insurance	3
Bs. 361—Property Insurance	3	Bs. 372—Personnel Management	2
Eh. 355—Business Writing	3	Eh. 356—Business Writing	3
Approved Elective	3	Approved Elective	3
	17		17
Senior Year			
Bs. 401—Business Law	3	Bs. 402—Business Law	3
Bs. 409—Business Policy	2	Bs. 410—Business Policy	2
Bs. 461—Life Insurance	3	Bs. 0431E—Principles of Marketing	3
Bs. 469E—Principles of Government Finance	3	Bs. 468E—Economic History in the Making	3
Sch. 357—Business Speaking	3	Bs. 470E—Business Forecasting	3
Approved Elective	2	Approved Elective	2
	16		16

IV. MARKETING

Junior Year			
Bs. 321E—Financial Organization of Society	3	Bs. 302E—Elements of Statistics	3
Bs. 341—Production Management	2	Bs. 322—Financial Management	3
Bs. 351E—Transportation Principles	3	Bs. 372—Personnel Management	2
Bs. 431E—Principles of Marketing	3	Bs. 432—Market Management	3
Eh. 355—Business Writing	3	Eh. 356—Business Writing	3
Approved Elective	3	Approved Elective	3
	17		17
Senior Year			
Bs. 401—Business Law	3	Bs. 402—Business Law	3
Bs. 409—Business Policy	2	Bs. 410—Business Policy	2
Bs. 433—Advertising	3	Bs. 434—Advertising Practice	3
Bs. 435E—International Trade	3	Bs. 436—Foreign Trade Technique	3
Sch. 357—Business Speaking	3	Bs. 470E—Business Forecasting	3
Approved Elective	2	Approved Elective	2
	16		16

V. BANKING AND FINANCE

First Semester		Second Semester	
Names of Courses	Credits	Names of Courses	Credits
Junior Year			
Bs. 311—Advanced Accounting	3	Bs. 302E—Elements of Statistics	3
Bs. 321E—Financial Organization of Society	3	Bs. 312—Advanced Accounting	3
Bs. 341—Production Management	2	Bs. 322—Financial Management	3
Bs. 351E—Transportation Principles	3	Bs. 372—Personnel Management	2
Eh. 355—Business Writing	3	Eh. 356—Business Writing	3
Approved Elective	2	Approved Elective	2
	16		16
Senior Year			
Bs. 401—Business Law	3	Bs. 402—Business Law	3
Bs. 409—Business Policy	2	Bs. 410—Business Policy	2
Bs. 415—Auditing	3	Bs. 422—Investments	3
Bs. 423—Banking	3	Bs. 426E—Banking Systems	3
Bs. 469E—Business Forecasting	3	Bs. 0431E—Principles of Marketing	3
Sch. 357—Business Speaking	3	Approved Elective	3
	17		17

VI. ECONOMIC GEOGRAPHY AND FOREIGN TRADE

Junior Year			
Bs. 321E—Financial Organization of Society	3	Bs. 302E—Elements of Statistics	3
Bs. 381E—Economic Geography of North America	3	Bs. 322—Financial Management	3
Bs. 385E—Commercial Geography of South America	3	Eh. 356—Business Writing	3
Bs. 431E—Principles of Marketing	3	Pcl. 310—International Relations* ..	3
Eh. 355—Business Writing	3	Sch. 0357—Business Speaking	3
Approved Elective	3	Approved Elective	3
	18		18
Senior Year			
Bs. 351E—Transportation Principles	3	Bs. 402—Business Law	3
Bs. 401—Business Law	3	Bs. 410—Business Policy	2
Bs. 409—Business Policy	2	Bs. 436—Foreign Trade Technique.	3
Bs. 435E—International Trade	3	Bs. 440E—Trade Horizons in Caribbean America	3
Bs. 487E—Economic Geography of Europe	3	Bs. 442E—Trade Horizons in the Far East	3
Approved Elective	2	Approved Elective	2
	16		16

*Bs. 485E or Bs. 468E may be substituted for Pcl. 310.

VII. ECONOMICS

First Semester		Second Semester	
Names of Courses	Credits	Names of Courses	Credits
Junior Year			
Bs. 321E—Financial Organization of Society	3	Bs. 302E—Elements of Statistics ...	3
Bs. 351E—Transportation Principles	3	Bs. 322—Financial Management	3
Bs. 381E—Economic Geography of North America	3	Bs. 404E—Government Control of Business	3
Bs. 429E—Principles of Government Finance	3	Bs. 0431E—Principles of Marketing	3
Bs. 435E—International Trade	3	Approved Elective	5
Approved Elective	2		
	17		17
Senior Year			
Bs. 409—Business Policy	2	Bs. 410—Business Policy	2
Bs. 423—Banking	3	Bs. 426E—Banking Systems	3
Bs. 469E—Business Forecasting	3	Bs. 454E—Principles of Public Utility Economics	3
Bs. 485E—International Economic Relations	3	Bs. 468E—Economic History in the Making	3
Sch. 357—Business Speaking	3	Bs. 470E—Business Forecasting	3
Approved Elective	2	Approved Elective	2
	16		16

VIII. REALTY ADMINISTRATION

Junior Year			
Ae. 101—Architectural Design	3	Bs. 302E—Elements of Statistics	3
Bs. 321E—Financial Organization of Society	3	Bs. 322—Financial Management	3
Bs. 351E—Transportation Principles	3	Bs. 362—Property Insurance	3
Bs. 361—Property Insurance	3	Cl. 0101—Surveying	2
Eh. 355—Business Writing	3	Eh. 356—Business Writing	3
Approved Elective	2	Approved Elective	3
	17		17
Senior Year			
Bs. 401—Business Law	3	Bs. 402—Business Law	3
Bs. 409—Business Policy	2	Bs. 410—Business Policy	2
Bs. 465—Realty Principles	3	Bs. 0431E—Principles of Marketing	3
Le. 306—Theory of Landscape Design	3	Bs. 466—Realty Management	3
Sch. 357—Business Speaking	3	Le. 408—City Planning	3
Approved Elective	2	Approved Elective	2
	16		16

THE CURRICULUM IN COMBINATION WITH LAW

Leading to the Degree of Bachelor of Science in Business Administration.

First Semester		Second Semester	
Names of Courses	Credits	Names of Courses	Credits
Freshman Year			
Bs. 101E—Economic History of England	3	Bs. 102E—Economic History of United States	3
Bs. 211—Principles of Accounting	3	Bs. 212—Principles of Accounting	3
Eh. 101—Rhetoric and Composition	3	Eh. 102—Rhetoric and Composition	3
Ms. 107—Elementary Commercial Algebra	3	Ms. 108—Business Mathematics	3
My. 101—Infantry	2	My. 102—Infantry	2
Pcl. 101—American Government and Politics	3	Pcl. 102—State and Municipal Government	3
Pl. 101—Gymnastics	1	Pl. 102—Gymnastics	1
	18		18
Sophomore Year			
Bs. 201E—Principles of Economics	3	Bs. 202E—Principles of Economics	3
Bs. 311—Advanced Accounting	3	Bs. 312—Advanced Accounting	3
Eh. 207—English Literature of Nineteenth Century*	3	Eh. 208—English Literature of Nineteenth Century*	3
Laboratory Science**	4 or 5	Laboratory Science**	4 or 5
My. 201—Infantry	2	My. 202—Infantry	2
Psy. 201—General Psychology	3	Approved Elective	4 or 3
	18 or 19		18 or 19
Junior Year			
Bs. 0302E—Elements of Statistics	3	Bs. 322—Financial Management	3
Bs. 321E—Financial Organization of Society	3	Bs. 401E—Government Control of Business	3
Bs. 351E—Transportation Principles	3	Bs. 110—Business Policy	2
Bs. 409—Business Policy	2	Bs. 151E—Principles of Public Utility Economics	3
Bs. 129E—Principles of Government Finance	3	Approved Electives	7
Approved Electives	4		
	18		18

*Any of the following English courses may be substituted for this course: Eh. 103-104, Eh. 201-202, or Eh. 355-356.

**Cy. 101-102; Ps. 101-102, 103-104; or Bly. 121-122. If the student takes eight hours of laboratory science instead of ten, he must substitute two hours of approved electives for the two extra hours of laboratory science.

THE CURRICULUM IN COMBINATION WITH ENGINEERING

Leading to the Degree of Bachelor of Science in Business Administration.

First Semester		Second Semester	
Names of Courses	Credits	Names of Courses	Credits
Freshman Year			
Dg. 101—Mechanical Drawing	1	Cl. 0101—Surveying	2
Dg. 0102—Mechanical Drawing	1	Dg. 101—Mechanical Drawing	1
Eh. 101—Rhetoric and Composition ..	3	Eh. 102—Rhetoric and Composition ..	3
Ml. 0102—Descriptive Geometry	2	Mc. 0101—Woodworking	1
Ms. 151—Elementary Mathematical Analysis	3	Ms. 152—Elementary Mathematical Analysis	3
My. 101—Infantry	2	My. 102—Infantry	2
Pl. 101—Gymnastics	1	Pl. 102—Gymnastics	1
Ps. 111-115—Mechanics and Heat- Sound, Light and Electricity	5	Ps. 112, 116—Mechanics and Heat- Sound, Light and Electricity	5
	18		18
Sophomore Year			
Bs. 201E—Principles of Economics ..	3	Bs. 202E—Principles of Economics ..	3
El. 201—Elements of Electrical En- gineering	2	Bs. 0211—Principles of Accounting ..	3
El. 203—Elements of Electrical En- gineering	1	El. 202—Elements of Electrical En- gineering	2
Ml. 0204—Mechanical Engineering ..	3	El. 204—Elements of Electrical En- gineering	1
Ml. 0206—Mechanical Engineering ...	1	Mc. 204—Metalworking	1
Ms. 253—Differential and Integral Calculus	5	Ml. 0203—Mechanical Engineering ...	3
My. 201—Infantry	2	Ml. 0205—Mechanical Engineering ...	1
	17	My. 202—Infantry	2
		Approved Elective	2
			18
Junior Year			
Bs. 0212—Principles of Accounting ..	3	Bs. 302E—Elements of Statistics	3
Bs. 321E—Financial Organization of Society	3	Bs. 322—Financial Management	3
Bs. 341—Production Management	2	Bs. 372—Personnel Management	2
Bs. 431E—Principles of Marketing ..	3	Cy. 102—General Chemistry	5
Cy. 101—General Chemistry	5	Eh. 356—Business Writing	3
Eh. 355—Business Writing	3	Approved Elective	2
	19		18
Senior Year			
Bs. 313—Factory and Distribution Cost Accounting	3	Bs. 402—Business Law	3
Bs. 331—Principles of Salesmanship ..	2	Bs. 410—Business Policy	2
Bs. 351E—Transportation Principles ..	3	Bs. 422—Investments	3
Bs. 401—Business Law	3	Bs. 432—Market Management	3
Bs. 409—Business Policy	2	Bs. 454E—Principles of Public Utility Economics	3
Approved Elective	3	Approved Elective	2
	16		16

THE CURRICULUM IN JOURNALISM

The curriculum in Journalism, extending over a period of four years, has been arranged with the primary aim of preparing students to meet successfully the exacting demands of newspaper work. Courses have been arranged in accordance with the major purpose of training students to become efficient newspaper workers.

Beginning with an introductory course in the first year, the courses in Journalism are distributed throughout the four years. Provision is made for twelve semester hours of electives in approved courses. *Provided adequate cause is shown therefor*, a student may elect six semester hours of approved electives in any department of the University.

The curriculum maintains a proper balance between the professional courses and the cultural courses necessary to provide a solid foundation for professional studies. The first two years are devoted largely to subjects of a cultural nature in order to provide the student with a deep and broad intellectual background. Considerable emphasis is given to courses in Economics, Political Science, Business Administration, Psychology, History, English, Sociology, and Germanic and Romance Languages.

In addition to the courses prescribed for the degree in Journalism, the student is given an opportunity to specialize in that field of Journalism in which he is most interested. If the student desires to specialize, he must elect at the beginning of his junior year, with the approval of the Head of the Department, the professional group which best fits his needs, and adhere to that group.

While courses in Shorthand and Typewriting are not required in the Journalism curriculum, a working knowledge of them is very essential in newspaper work, and it is advised that students arrange their work accordingly.

THE CURRICULUM IN JOURNALISM

Leading to the Degree of Bachelor of Science in Journalism.

First Semester		Second Semester	
Names of Courses	Credits	Names of Courses	Credits
Freshman Year			
Eh. 101—Rhetoric and Composition..	3	Eh. 102—Rhetoric and Composition	3
Es. 101—Economic History of England*	3	Es. 102—Economic History of the U. S.*	3
Foreign Language	3	Foreign Language	3
Jm. 103—Introduction to Journalism	3	Jm. 104—Introduction to Journalism	3
Ms. 107—Elementary Commercial Algebra	3	My. 102—Infantry	2
My. 101—Infantry	2	Pl. 102—Gymnastics	1
Pl. 101—Gymnastics	1	Sy. 112—Introduction to Social Studies	3
	18		18
Sophomore Year			
Es. 201—Principles of Economics ...	3	Es. 202—Principles of Economics	3
Foreign Language**	3	Foreign Language**	3
Jm. 205—History of American Journalism	3	Jm. 206—Principles of Journalism..	3
Laboratory Science***	5	Laboratory Science***	5
My. 201—Infantry	2	My. 202—Infantry	2
	16		16

I. NEWSPAPER WRITING

Names of Courses	Credits	Names of Courses	Credits
First Semester		Second Semester	
Junior Year			
Eh. 203—The Short Story	3	Eh. 204—Exposition	3
Jm. 301—News Writing	3	Jm. 302—News Writing	3
Jm. 309—Newspaper Editing	3	Jm. 314—The Writing of Special Feature Articles	3
Jm. 313—The Writing of Special Feature Articles	3	Jm. 318—Newspaper Management	3
Pel. 101—American Government and Politics	3	Pel. 102—State and Municipal Government	3
Approved Elective	2	Approved Elective	2
	17		17
Senior Year			
Bs. 433—Advertising	3	Bs. 434—Advertising Practice	3
Jm. 407—Editorial Writing	3	Jm. 404—The Development of Public Opinion	3
Jm. 409—Law of the Press	3	Jm. 412—Contemporary Opinion	3
Psy. 201—General Psychology	3	Pel. 310—International Relations	3
Approved Electives	4	Approved Electives	4
	16		16

II. NEWSPAPER MANAGEMENT

Junior Year			
Bs. 211—Principles of Accounting	3	Bs. 212—Principles of Accounting	3
Bs. 311—Production Management	2	Jm. 302—News Writing	3
Jm. 301—News Writing	3	Jm. 318—Newspaper Management	3
Jm. 309—Newspaper Editing	3	Pel. 102—State and Municipal Government	3
Pel. 101—American Government and Politics	3	Psy. 0201—General Psychology	3
Approved Electives	3	Approved Elective	2
	17		17
Senior Year			
Bs. 321E—Financial Organization of Society	3	Bs. 322—Financial Management	3
Bs. 433—Advertising	3	Bs. 0431E—Principles of Marketing	3
Jm. 407—Editorial Writing	3	Bs. 434—Advertising Practice	3
Jm. 409—Law of the Press	3	Jm. 404—The Development of Public Opinion	3
Approved Electives	4	Approved Electives	4
	16		16

*Hy. 101-102 may be substituted for Es. 101-102.

**Must be a continuation of the language begun in the freshman year.

***Cy. 101-102; Ps. 101-102, 103-104; or Bly. 121-122. If the student takes eight hours of laboratory science instead of ten, he must substitute two hours of approved electives for the two extra hours of laboratory science.

DEPARTMENTS OF INSTRUCTION

Subjects with odd numbers are offered during the first semester; subjects with even numbers are offered during the second semester unless the number begins with 0, in which case the reverse is true.

The number of hours listed is the number of hours which the class meets per week.

The number of credits is the number of semester credit hours earned by each student who receives a passing grade (A, B, C, or D) when the subject is completed. Unless specifically stated, credit may be obtained for one semester of a year course.

Subjects numbered 200 or above are not open to freshmen; subjects numbered 300 or above are not open to sophomores; subjects numbered 400 or above are not open to juniors; subjects numbered 500 or above are for graduate students.

The abbreviations used are wherever possible the first and last letter of the first word of the department name. Occasionally, a third central letter is demanded to distinguish between departments where first and last letters are identical.

ARCHITECTURE

Ae. 101.—Architectural Design. 3 hours. 3 credits. WEAVER and staff.

A beginning course in architectural design and consisting of lectures and small problems in plan and elevation employing only the wall, roof, beam and pier as structural elements, with mouldings and simple belt courses as decorative elements. The orders are not introduced either as structural or decorative elements, until the second semester.

Plan and elevation are studied without reference to historic precedent. The student is encouraged to use his own judgment, without reference to books, the development of initiative and the creative faculties being placed above draftsmanship and conventionality of result.

BIOLOGY

Bly. 121.—Natural History of the Gainesville Region. 2 hours and 4 hours field or laboratory. 4 credits. ROGERS and GIOVANNOLI.

An introduction to the animal life of local streams, lakes, hammocks, and pine-woods. Emphasis will be placed upon the geological and vegetational features that affect the occurrence of local animals.

This course, in combination with Bly. 122, is offered as a non-technical elective in Biology and Geology to fulfill the science requirement for Business Administration, or Journalism students.

The course carries no laboratory fee, but each student is required to purchase a \$10 breakage ticket.

Bly. 122.—The History of the Earth with Particular Reference to its Animal Life. 3 hours per week and 5 Saturday field trips during the semester. 4 credits. HUBBELL and ROGERS.

An account of the geological processes and record. Emphasis will be placed upon the more recent geological history of North America and of Florida. The field work will consist of trips to local geological features and fossil beds.

It is estimated that transportation for all trips will be about \$5 per student.

Prerequisite: Bly. 121.

BUSINESS ADMINISTRATION

Note 1: The courses in Business Administration are offered by the Department of Economics and Business Administration, instructors in this department dividing their time between Economics and Business Administration. The courses in Economics are described in the *Bulletin of the College of Arts and Sciences*.

Note 2: The courses in Business Administration marked "E" are the same courses as those in Economics. For example, Business Administration 101E is the same as Economics 101, or Business Administration 302E is the same as Economics 302.

Bs. 83 or 083.—Office Management and Typing. 1 lecture hour and 4 laboratory hours. 2 credits. SCAGLIONE.

Instruction in office organization and office function; practical use of modern office appliances; filing. Instruction in typing.

Laboratory fee: \$15.

Bs. 85.—Shorthand. 3 lectures. 2 credits. SCAGLIONE.

Instruction in elementary principles of practical stenography.

Fee: \$5.

Bs. 86.—Advanced Shorthand. 3 lectures. 2 credits. SCAGLIONE.

Proficiency in the practical use of shorthand.

Fee: \$5.

Prerequisite: Bs. 85 or a knowledge of elementary shorthand.

Bs. 101E.—Economic History of England. 3 hours. 3 credits.

MATHERLY, DYKMAN, SCAGLIONE, HURST, CHACE.

Survey and interpretation, with brief reference to France and Germany. The origin and development of economic institutions, the manor, industrial revolution, commerce, transport, labor, agriculture, finance, effects on social and political development and on development in the United States.

Bs. 102E.—Economic History of the United States. 3 hours. 3 credits.

MATHERLY, DYKMAN, SCAGLIONE, HURST, CHACE.

Interpretative survey of industrial development—consideration of the development of industry, agriculture, trade and transportation, labor, banking, finance, population—the influence of economic development on political and social development, and of foreign economic development on the United States.

Bs. 103.—Principles of Economic Geography. 3 hours. 3 credits.

ATWOOD, DIETRICH, HICKS.

A study of the relations of physical and economic conditions to the production and trade in selected important agricultural, forest, mineral, and manufactured products of the world; emphasis will be placed on the regional aspect of the commodities and on the natural economic and social factors which affect the adjustments that man has made in various regions of the world in order to make a living.

Bs. 104.—Principles of Economic Geography. 3 hours. 3 credits.

ATWOOD, DIETRICH, HICKS.

A continuation of the work in Bs. 103; special emphasis being given to the adjustments that man has made to the natural economic and social factors and the resulting interdependence of the great producing and consuming regions of the world. Special attention will be given to the industrial and commercial development of the United States in relation to the rest of the world.

Bs. 201E-202E or 0202E-0201E.—Principles of Economics. 3 hours. 6 credits. No credit toward a degree will be allowed until Bs. 202

is completed. MATHERLY, ELDRIDGE, M. D. ANDERSON, BIGHAM, CAMPBELL, HICKS.

An analysis of production, distribution, and consumption. Attention is devoted to the principles governing value and market price with a brief introduction to money, banking and credit, industrial combinations, transportation and communication, labor problems, and economic reform.

Bs. 211-212 or 0212-0211.—Principles of Accounting. 2 hours and 2 hours laboratory. 6 credits. No credit toward a degree will be allowed until **Bs. 212** is completed. GRAY, NUNEZ, SCAGLIONE.

Lectures, problems, and laboratory practice. An introductory study of the underlying principles of double entry records; basic types of records and reports; accounting procedure and technique; the outstanding features of partnerships and corporations; the form and content of the balance sheet and the statement of profit and loss.

Bs. 302E or 0302E.—Elements of Statistics. 2 hours and 2 hours laboratory. 3 credits. ANDERSON.

An introduction to statistics; brief consideration of statistical theory; collection, classification and presentation of economic data; construction of graphs and charts; study of index numbers; problems of statistical research. Each student is required to complete one or more projects in statistical investigation.

Prerequisite: **Bs. 201E** and **202E**.

Bs. 311 or 0311.—Advanced Accounting. 3 hours. 3 credits. GRAY.

Lectures and problems. An advanced study in accounting theory and practice. Special types of problems involving partnerships, corporations, valuation of various types of assets, analysis of financial statements, etc.

Prerequisite: **Bs. 211** and **212**.

Bs. 312 or 0312.—Advanced Accounting. 3 hours. 3 credits. GRAY.

A continuation of **Bs. 311**. Lectures and problems involving installment sales, agencies and branches, consignments, insolvency and bankruptcy, receiverships, etc.

Prerequisite: **Bs. 311**.

Bs. 313.—Factory and Distribution Cost Accounting. 3 hours. 3 credits. GRAY.

Lectures and problems. A study of the methods of collection, compilation, and interpretation of cost data for both industrial and commercial enterprises; preparation of records and reports; uses of cost data in business control.

Prerequisite: **Bs. 211** and **212**.

Bs. 321E.—Financial Organization of Society. 3 hours. 3 credits. DOLBEARE.

An introduction to the field of finance. Consideration of the pecuniary organization of society, of the functions performed by financial institutions, and of the relationship between finance and business administration.

Prerequisite: **Bs. 201E** and **202E**.

Bs. 322.—Financial Management. 3 hours. 3 credits. DOLBEARE, DYKMAN.

The financial manager's task in an operating business enterprise; the financial policies, methods, and practices in raising both fixed and working capital; internal organization and procedure for financial control; the financial function in business administration.

Prerequisite: **Bs. 321E**.

Bs. 331.—Principles of Salesmanship. 2 hours. 2 credits. WILSON.

Actual practice in sales methods, including preparation for and obtaining the interview; presenting the sales talk; meeting and overcoming objections; detailed study of the stages of the sale; attention, interest, desire and action; sales tactics; sales personality. Principles covered apply to all kinds of selling specialties, styles, etc.

Bs. 332.—Retail Store Management. 3 hours. 3 credits. WILSON.

Retail store problems; types of stores; executive control; purchasing; accounts; location; service; organization; management of employees and price policies.

Bs. 341.—Production Management. 2 hours. 2 credits. WILSON.

The problems involved in the construction, equipment and administration of a manufacturing enterprise. The unit of study is the factory. The subject matter is treated under four heads: the underlying principles of production, the agencies of production, the control of production operations, and the establishment of production standards.

Prerequisite: Bs. 201E and 202E.

Bs. 351E or 0351E.—Transportation Principles. 3 hours. 3 credits. BIGHAM.

The development of transportation; the place of transportation in the economic order; types of transportation agencies; railway transportation; rate making; government regulation of railroads.

Prerequisite: Bs. 201E and 202E.

Bs. 361.—Property Insurance. 3 hours. 3 credits. DYKMAN.

Fire and Marine. Introduction to property insurance; careful analysis of fire and marine insurance; the nature of fire and marine risks; fire and marine companies and their operations; premiums; local agents and their functions; selling fire and marine insurance.

Prerequisite: Bs. 201E and 202E.

Bs. 362.—Property Insurance. 3 hours. 3 credits. DYKMAN.

Bond, Title and Casualty. Continuation of property insurance; the nature of bonding, premiums charged and companies underwriting; the principles of title and casualty insurance.

Prerequisite: Bs. 201E and 202E.

Bs. 372.—Personnel Management. 2 hours. 2 credits. CHACE.

The problems of labor adjustment, and various methods of dealing with them; an examination of the functions of a personnel department, methods of supply, selection, training, promotion, and discharge of employees, and various methods of maintaining industrial good will, as works councils, profit-sharing, etc.

Prerequisite: Bs. 201E and 202E.

Bs. 381E.—Economic Geography of North America. 3 hours. 3 credits. DIETRICH.

A detailed study of the principal economic activities in each of the major geographic regions of North America involving an analysis of these activities from the standpoint of their relation to the natural environmental complex.

Prerequisites: Bs. 103, 104, 201E and 202E.

Bs. 385E.—Commercial Geography of South America. 3 hours. 3 credits. DIETRICH.

A geographic survey of the continent of South America, organized around the growth of trade, exports and imports, trade by countries, and general business trends; the elements of the environment favoring or discouraging production and movement of commodities; the economic conditions that influence commercial advance or decline; the major geographic regions of each country as to their importance in supplying export products and in consuming import commodities.

Prerequisite: Bs. 103, 104, 201E and 202E.

Not offered in 1932-33.

Bs. 401.—Business Law. 3 hours. 3 credits. HURST.

Contracts and agency; the formation, operation, interpretation, and discharge of binding agreements; creation of the relation of agency; types of agents; rights and obligations of the agent, principal, and third party; termination of the relationship of agency.

Bs. 402.—Advanced Business Law. 3 hours. 3 credits. HURST.

Conveyances and mortgages of real property; sales and mortgages of personal property; the law of negotiable instruments; partnership.

Bs. 404E.—Government Control of Business. 3 hours. 3 credits.

HURST.

General survey of the field of government control; purposes of government control; control of accounts, prices and capitalization; government policy toward business, current government regulation; services and agencies which modern governments undertake to provide for business enterprises.

Prerequisite: Bs. 201E and 202E.

Bs. 409-410.—Business Policy. 2 hours. 4 credits. No credit toward a degree will be allowed until Bs. 410 is completed. CHACE.

Correlation of the various specialized courses in Business Administration. The point of view is that of the chief executive. The forms of organization, external and internal relationships of the business, lines of authority, duties and responsibilities of functional departments, methods of determining policies, and standards of operating efficiency. Various faculty members and outside business executives assist the instructor in charge in the presentation of specific business cases and problems. Students are required to apply business principles to these cases and problems and make written reports thereon.

Bs. 414.—Income Tax Procedure. 3 hours. 3 credits. GRAY.

Lectures and problems. A study of the Federal Income Tax law, and the related accounting problems. Exercises in the preparation of tax returns for individuals and corporations.

Prerequisite: Bs. 311 and 312.

Bs. 415.—Auditing. 3 hours. 3 credits. GRAY.

Lectures and problems. A study of auditing theory and practice; principal kinds of audits; solution of illustrative problems.

Prerequisite: 12 semester hours in accounting.

Bs. 416.—Advanced Accounting. 3 hours. 3 credits. GRAY.

A continuation of Bs. 311 and 312. Lectures and problems. Problems involving actuarial science, consolidated statements of holding companies and subsidiaries, foreign exchange, etc.

Prerequisite: Bs. 311 and 312.

Bs. 417-418.—C.P.A. Problems. 3 hours. 6 credits. GRAY.

A study of basic accounting propositions of the type usually included in C.P.A. examinations. The course will include problems to be solved by students, study of published solutions to typical problems, and study of the theory of accounts and rules of law to which the solutions conform. (Designed especially for advanced seniors and graduate students minoring in Business Administration).

Prerequisites: Bs. 413 and 414 or permission of instructor.

Bs. 422.—Investments. 3 hours. 3 credits. DOLBEARE.

The various forms of investments with reference to their suitability for different types of investors; the money market, its nature and the financial factors which influence the price movements of securities; elements of sound investment and methods of computing net earnings, amortization, rights and convertibles. The aim will be to train the student to act efficiently in a financial capacity either as a borrower or lender, as investor or trustee, or as fiscal agent of a corporation.

Prerequisite: Bs. 321E.

Bs. 423.—Banking. 3 hours. 3 credits. DOLBEARE.

The theory, organization, and practice of commercial banking; the theory and principles involved; the banking system of the United States compared with other leading countries; and a survey of banking practice as regards internal organization and operation of an individual bank.

Prerequisite: Bs. 321E.

Bs. 426E.—Banking Systems. 3 hours. 3 credits. **DOLBEARE.**

An analytical history of the evolution of the banking system of the United States, followed by a critical study of the banking systems of other countries, especially Canada, England, France and Germany. The aim of the course is to give the student an understanding of the functions of banking in modern economic societies.

Prerequisite: Bs. 321.

Bs. 429E.—Principles of Government Finance. 3 hours. 3 credits.

BIGHAM.

Principles governing expenditures of modern governments; sources of revenue; public credit; principles and methods of taxation and of financial administration as revealed in the fiscal systems of leading countries.

Prerequisite: Bs. 201E and 202E.

Bs. 431E or 0431E.—Principles of Marketing. 3 hours. 3 credits.

WILSON.

A survey of the marketing structure of industrial society; fundamental functions performed in the marketing process and the various methods, agencies and factors responsible for the development and execution of these functions; marketing problems of the manufacturer, wholesaler, and different types of retailers; the marketing functions in business management.

Prerequisite: Bs. 201E and 202E.

Bs. 432.—Market Management. 3 hours. 3 credits. **WILSON.**

The function of marketing in the operation of business enterprise from the point of view of the sales manager and the purchasing agent. An introduction to market analysis, market research, formulation of marketing policies, choice of channels of distribution, methods of advertising and administrative control of marketing activities.

Prerequisite: Bs. 431E.

Bs. 433.—Advertising. 3 hours. 3 credits. **WILSON.**

A study of the history and economics of advertising. Attention is also devoted to the types of advertising and their adaptation to the various lines of business, to the relative value of various advertising media, to the psychological principles underlying advertising, and to the administrative control of advertising expenditures.

Prerequisite: Bs. 201E and 202E.

Bs. 434.—Advertising Practice. 3 hours. 3 credits. **WILSON.**

The technique and practice of advertising. Consideration of the mechanics of advertising, types of advertising copy, theories of literary style as applied to copy writing, advertising policies, and methods of testing the effectiveness of advertising activities.

Prerequisite: Bs. 433.

Bs. 435E.—International Trade. 3 hours. 3 credits. **CAMPBELL.**

World economics involving the principles and policies of international trade; the international aspects of the economic policies and activities of modern nations.

Prerequisites: Bs. 201E and 202E.

Bs. 436.—Foreign Trade Technique. 3 hours. 3 credits. **CAMPBELL.**

Foreign trade as a business profession; the problems and practices involved in exporting and importing.

Prerequisite: Bs. 201E and 202E.

Bs. 440E.—Trade Horizons in Caribbean America. 3 hours. 3 credits.

DIETRICH.

Economic and commercial geography of Mexico, Central America, the West Indies, and the countries of South America bordering the Caribbean Sea; the historical background of the republic and islands of the Caribbean; the major geographic regions of the different countries; the economic positions of the republic and islands; the commercial importance of the various republics and islands as a market for manufactured wares and as a source of foodstuffs and raw materials.

Prerequisite: Bs. 103 and 104.

Not offered in 1932-33.

Bs. 442E.—Trade Horizons in the Far East. 3 hours. 3 credits.

DIETRICH.

A study of human relationships to natural environment as presented in the economic adjustments in the Far East and in its commercial connections with the Western World, especially with the United States. The course will include the study of Siberia, Manchuria, Japan, China, Farther India, India, and the Malayan Archipelago; the historical background of these different countries, the major geographic regions in the area, their economic significance in production of various raw materials, foodstuffs, and manufactured goods; and the market for western products furnished by these countries.

Prerequisite: Bs. 103 and 104.

Bs. 454E.—Principles of Public Utility Economics. 3 hours. 3 credits.

BIGHAM.

The place of public service corporations in the economic organization of society; valuation; rate making; finance; organization and administration of public utilities.

Prerequisite: Bs. 201E and 202E.

Bs. 461.—Life Insurance. 3 hours. 3 credits. DYKMAN.

The functions of life insurance; the science of life insurance and the computation of premiums; types of life companies; life insurance law; the selling of life insurance.

Prerequisite: Bs. 201E and 202E.

Bs. 465.—Realty Principles. 3 hours. 3 credits. CHACE.

Fundamentals of realty economics; the place of the realty business in the economic order; economic aspects of realty developments; the realty business; the functions of real estate concerns; the place of other business courses in preparing for realty administration.

Prerequisites: Bs. 201E and 202E.

Bs. 466.—Realty Management. 3 hours. 3 credits. CHACE.

The organization of realty enterprises; finance; accounting; advertising; salesmanship; the management of real property; the handling of rentals; the administration of real estate developments; relationship of other business courses to training in realty management.

Prerequisite: Bs. 201E and 202E.

Bs. 468E.—Economic History in the Making. 3 hours. 3 credits.

DYKMAN.

The era of industrialism; a survey of contemporary economic organization in the leading European countries; types of economic reform; capitalism, socialism, communism; special consideration of current, social and economic problems in England, Germany, Soviet Russia and the United States.

Bs. 469E.—Business Forecasting. 3 hours. 3 credits. ANDERSON.

This course aims to survey the problem of the reduction of business risk by forecasting general business conditions. A study will be made of the statistical methods used by leading commercial agencies in forecasting the volume of trade, the wholesale price level, the market rate of interest, and other generalized measures of business equilibrium.

Prerequisite: Bs. 302E.

Bs. 470E.—Business Forecasting, continued. 3 hours. 3 credits.

ANDERSON.

A study of various techniques employed to forecast the production and price of specific commodities. An intensive examination of the more important contributions to this subject appearing in scientific journals during recent years will constitute the nucleus of the course.

Prerequisite: Bs. 302E.

Bs. 485E.—International Economic Relations. 3 hours. 3 credits.
ATWOOD.

An historical study of the development of international economic policies, geographic, economic, social, and political factors underlying contemporary international problems; economic and political methods employed by the leading commercial nations to expand their economic interests in Latin America, Asia, and Africa.

Bs. 487E.—Economic Geography of Europe. 3 hours. 3 credits.
DIETRICH.

A study of human relationships to natural environment as presented in the economic adjustments in Europe and in its commercial connections with the other continents, especially with North America. This includes a regional study of the continent; the historical background of the different countries; their economic significance as productive and consuming centers.

Prerequisite: Bs. 103 and 104.

GRADUATE COURSES IN ECONOMICS

Bs. 505E.—The Development of Economic Thought. 3 hours. 3 credits.
ELDRIDGE.

The development of economic thought; careful analysis of the theories of the various schools of economic thought; study of the Physiocrats, Mercantilism, the Classical Economist, the leading economists of the Austrian School, and a brief survey of the beginnings of Socialism; the development of theoretical background for research and graduate work of an advanced nature.

Required of all candidates for the master's degree in this department.

Bs. 506E.—The Development of Economic Thought, continued. 3 hours. 3 credits. ELDRIDGE.

Analysis of the thought of the followers and defenders on the one hand and of the abler critics on the other of the Classical Economists; appraisals of recent contributions of the various schools in formulating a system of economic analysis.

Required of all candidates for the master's degree in this department.

Bs. 528E.—International Finance. 3 hours. 3 credits. DOLBEARE.

Discussion, reports, and lectures concerning the causes, nature, and significance of financial relations among nations, and the evolution of the banking and financial institutions in selected foreign countries.

Bs. 530E.—Problems in State and Local Taxation. 3 hours. 3 credits.
BIGHAM.

An intensive study of the problems of state and local taxation primarily related to the following taxes: general property, income business, inheritance, and commodity.

Bs. 563-564E.—Seminar in Statistics and Business Forecasting. 3 hours. 6 credits. ANDERSON.

Critical study of special problems in statistics and business forecasting.

Bs. 568E.—Special Studies in Risk and Risk-Bearing. 3 hours. 3 credits. DYKMAN.

A study of the theory of risks; special studies in the ways of dealing with risks through insurance, hedging, investment trusts, security markets; social aspects of risk-bearing.

Bs. 589E.—Geographic Factors Underlying World Economy. 3 hours. 3 credits. ATWOOD.

A lecture and research course stressing the geographic factors that affect the industrial and commercial development of the leading countries of the world. Students will be required to select subjects for intensive study and make formal reports

CHEMISTRY

Cy. 101-102.—General Chemistry. 4 hours and 3 hours laboratory. 10 credits. No credit toward a degree will be allowed until the entire 10 credits are earned. POLLARD.

The fundamental laws and theories of chemistry, and the preparation and properties of the common elements and their compounds. The practical application of chemistry to Commerce and Journalism.

Laboratory fee: \$5 per semester.

CIVIL ENGINEERING

Cl. 101 or 0101.—Surveying. 1 hour, and 3 hours laboratory. 2 credits. SAWYER.

Recitations on the use of chain, compass, transit and level; determination of areas, and instrumental adjustments. Field work in chaining, leveling, compass and transit surveys. Drawing-room work in calculations from field notes, and map-drawing. Textbook: Breed and Hosmer, *The Principles and Practices of Surveying*, Vol. I.

Prerequisite: Trigonometry.

Laboratory fee: \$3.

Required of engineering students, first year.

DRAWING

Dg. 101-102.—Mechanical Drawing. 3 hours. 2 credits. WALKER. Geometrical problems, lettering and dimensioning.

Laboratory fee: \$0.25.

Required of all first-year students in engineering, engineering pre-business, and manual arts.

Dg. 104.—Mechanical Drawing. 3 hours. 1 credit. WALKER.

Projections, machine parts and tracing.

Required of all first-year students in engineering, engineering pre-business, and manual arts.

ELECTRICAL ENGINEERING

El. 201.—Elements of Electrical Engineering. 2 hours. 2 credits. WEIL.

Lectures and recitations on fundamental principles of electrical engineering. Textbook: Benton, *Introductory Textbook of Electrical Engineering*.

Prerequisite: Ps. 111 to 116. Required of second-year students in engineering pre-business course.

El. 202.—Elements of Electrical Engineering. 2 hours. 2 credits. WEIL and staff.

The general course covering methods of producing electrical energy, its distribution and application, direct and alternating current motors, and generators, storage batteries, communication. Textbook: Benton, *Introductory Text on Electrical Engineering*.

Prerequisite: 1 year of college physics, including electricity and magnetism.

Required of all engineering and engineering pre-business students.

El. 203.—Electrical Laboratory. 3 hours laboratory. 1 credit. WEIL.

Laboratory work to accompany El. 201.

Laboratory fee: \$3.

Required of second-year engineering pre-business students.

El. 204.—Dynamo Laboratory. 3 hours laboratory. 1 credit. WEIL and staff.

Laboratory work to accompany **El. 202.**

Corequisite: **El. 202.**

Laboratory fee: \$3

Required of all engineering and engineering pre-business students.

ENGLISH

Eh. 21.—Minimum Essentials of English. 3 hours. No credit. ROBERTSON and staff.

An elementary course in fundamentals of grammar, punctuation and sentence construction, designed to meet the needs of freshmen deficient in preparatory English. For such deficient students this course is prerequisite to English 101. Entry to the course will be determined by examination to be given all entering freshmen during Freshman Week.

Required of all freshmen who, upon entering the University, are found deficient in minimum essentials of high school English.

Eh. 101-102.—Rhetoric and Composition. 3 hours. 6 credits. No credit toward a degree will be allowed until the entire 6 credits are earned. ROBERTSON and staff.

Designed to train students in methods of clear and forceful expression. Instruction is carried on simultaneously in formal rhetoric, in theme writing, and in corrective studies and exercises adapted to the needs of the individual student. In addition, all students are encouraged to read extensively for extra credit.

In order to receive credit for this course, the student is required to meet the following conditions: (1) He must pass a spelling test based on a list of 500 common words. (2) He must pass objective tests in the elements of capitalization, punctuation, grammar and sentence structure. (These tests form a part of the final examination.) (3) He must have a passing average in composition, to secure which he must have learned to avoid certain especially gross errors.

Required of all freshmen.

Eh. 203.—The Short Story. 3 hours. 3 credits. FARRIS.

A course in the writing of the short story.

Eh. 204.—Exposition. 3 hours. 3 credits. FARRIS.

A course in the study and application of the fundamental principles involved in expository thought—organization and expression, working toward the student's production of such types as the criticism, the essay, the biography, etc.

Eh. 207-208.—English Literature of the Nineteenth Century. 3 hours. 6 credits. ROBERTSON.

The first semester covers English poetry and prose of the first half of the nineteenth century. The second semester is a continuation to the present day.

Eh. 355-356.—Business Writing. 3 hours. 6 credits. No credit toward a degree will be allowed until **Eh. 356** is completed. MOUNTS, SPIVEY.

Rapid review of basic principles of English composition; study of stylistic qualities demanded in the best modern business writing; extensive reading, analysis, and construction of the common types of business letters and reports. No credit will be allowed until the student has attained a definite objective standard in English minimum essentials.

Prerequisite: **Eh. 101** and **102.**

JOURNALISM

Jm. 103-104.—Introduction to Journalism. 3 hours. 6 credits. No credit toward a degree will be allowed until **Jm. 104** is completed. EMIG.

A general survey of the broad field of journalism, together with an introduction to the most vital problems with which the press, as a social institution, deals in contemporary civilization. The course is non-technical, and is designed to broaden and deepen the student's mind, and to stimulate him, by reading, discussion, and writing, to sober and sound thinking about literature, government, business, education, science, etc.

Jm. 205.—History of American Journalism. 3 hours. 3 credits. EMIG.

A study of the evolution of the newspaper with special emphasis on the relation of the press to the dominant economic, political, and social problems of the various periods in American history.

Jm. 206.—Principles of Journalism. 3 hours. 3 credits. EMIG.

Lectures, readings, and discussion on the principles of journalism. A consideration of practical problems arising out of the newspaper treatment of crime, labor, religion, politics, news suppression, propaganda, publicity, advertising, etc. A study of the principles of news writing. Intensive practice in writing news stories.

Jm. 301-302.—News Writing. 3 hours. 6 credits. No credit toward a degree will be allowed until **Jm. 302** is completed. LOWRY.

Lectures and intensive practice in news gathering and writing under conditions prevailing in a newspaper office. Students are taught by practice, followed by class discussion and frequent conferences with the instructor.

Jm. 309.—Newspaper Editing. 3 hours. 3 credits. EMIG.

Instruction in the scientific, as well as the mechanical phases of newspaper editing. Intensive practice in editing and writing headlines, using copy from the various press associations in the class room. A detailed study of the mechanics of editing and publishing.

Jm. 313-314.—The Writing of Special Feature Articles. 3 hours. 6 credits. No credit toward a degree will be allowed until **Jm. 314** is completed. **Jm. 313** must be completed before **Jm. 314** is entered. LOWRY.

Analysis of appeals and technique in preparing special feature articles for newspaper and magazine publication. Intensive practice in writing articles follows study of principles in each semester. Emphasis on attempts to market articles.

Jm. 0316.—Agricultural News Writing. 3 hours. 3 credits. LOWRY.

A course in journalistic writing as applied to agricultural subjects. Special attention to writing technique. No previous study or experience in journalism required on the part of the student. Instruction in collecting and writing agricultural news and special articles for the press.

Jm. 318.—Newspaper Management. 3 hours. 3 credits. LOWRY.

A searching study of the problems of editorial management, advertising, circulation, and business, which are encountered by editors and publishers of community weekly and small-town daily newspapers. The study considers editorial, financial, production, and mechanical management, cost-finding and accounting systems, advertising campaigns, mechanical equipment needs and costs, business policy, etc.; the organization and administration of the various departments of newspapers.

Jm. 320.—Problems in Publishing. 3 hours. 3 credits. LOWRY.

Methods, processes, materials, equipment, cost and cost systems, and accounting practices involved in publishing newspapers, magazines, pamphlets, bulletins, house organs, and job printing.

Jm. 404.—The Development of Public Opinion. 3 hours. 3 credits.

EMIG.

A study of the elements and factors entering into the formation and direction of public opinion; the influence of public opinion on sound government and thinking; and the relation of the press to the various institutions of society.

Jm. 407.—Editorial Writing. 3 hours. 3 credits. LOWRY.

The theory of editorial writing, and an analysis of editorial policies. Extensive reading required. Intensive writing of editorials involving an interpretation of current events and the problems which they create.

Jm. 409.—Law of the Press. 3 hours. 3 credits. HURST.

Instruction and practice in the methods of handling news of the courts; municipal and state administration; finance, bankruptcy, and politics. A study of libel, contempt of court, and other phases of the law of the press.

Jm. 411.—Press Relations. 3 hours. 3 credits. EMIG.

Theory, methods, and practice of presenting to the public matters of economic, educational, political, industrial, and social importance; copy and its effects on readers; and methods of reaching the public mind.

Jm. 412.—Contemporary Thought. 3 hours. 3 credits. EMIG.

A critical survey of literature, the sciences, and social action, designed to correlate the fragments of the student's educational experience with his knowledge of the press. Its purpose is also to prepare students for critical writing in terms of the highest literary standards, as well as sound thinking in terms of extensive knowledge. An orientation course involving intensive reading in literature, science, history, biography, economics, sociology, and political science.

GRADUATE COURSES IN JOURNALISM

Jm. 503-504.—Special Studies in Newspaper Production. 3 hours. 6 credits. No credit toward a degree will be allowed until **Jm. 504** is completed. LOWRY.

Jm. 505-506.—Special Studies in Public Opinion. 3 hours. 6 credits. No credit toward a degree will be allowed until **Jm. 506** is completed. EMIG.

LANDSCAPE DESIGN

Le. 306 or 0306.—Theory of Landscape Design. 3 hours. 3 credits. BURRITT.

The principles and practice of a fine art from a professional point of view—no drafting or laboratory work. Text: Hubbard and Kimball, *An Introduction to the Study of Landscape Design*.

Required in junior or senior year.

Le. 408.—City Planning. 3 hours. 3 credits. BURRITT.

Historical development and broader phases of civic design.

Required in senior year.

MATHEMATICS

Ms. 101 or 0101.—College Algebra. 3 hours. 3 credits. SIMPSON and staff.

An elementary treatment of the nature of mathematics and a somewhat detailed study of a few of the simpler branches of algebra.

Ms. 102 or 0102.—Plane Analytic Geometry. 3 hours. 3 credits. SIMPSON and staff.

A modern approach to the ancient science of geometry. Geometric concepts expressed in algebraic language with a study of rectilinear figures and the plane sections of a cone.

Prerequisites: Ms. 85 and Ms. 101.

Ms. 107 or 0107.—Elementary Commercial Algebra. 3 hours. 3 credits. SIMPSON and staff.

Elementary algebraic notions fundamental to the study of mathematical problems arising in business and finance.

Open only to students in the College of Commerce and Journalism and to those pursuing the Pre-Law Course.

Ms. 108 or 0108.—Business Mathematics. 3 hours. 3 credits. SIMPSON and staff.

Modern mathematical treatment of the problems of banking and business. Derivation and application of numerous formulas of importance in the financial world.

Prerequisite: Ms. 101 or Ms. 107.

Ms. 151-152.—Elementary Mathematical Analysis. 3 hours. 6 credits. No credit toward a degree will be allowed until the entire 6 credits are earned.

The material of Ms. 101 and Ms. 102 rearranged and changed to meet the primary needs of engineering students. Textbook: Slichter, *Elementary Mathematical Analysis*.

Ms. 253.—Differential and Integral Calculus. 5 hours. 5 credits.

The study of differentiation and integration, which, together with their numerous and widely different applications constitute one of the most important fields of mathematics. Typical problems solved by these methods are calculation of rates of change, computation of areas, volumes, moments of inertia, energy, power, and many others. In addition, various advanced topics of special value to engineers and scientists are studied.

MECHANIC ARTS

Mc. 101.—Woodworking. 3 hours shop. 1 credit. ESHLEMAN.

Joinery. Lectures and shop work.

Shop fee: \$3.

Required of first-year engineering pre-business students.

Mc. 204.—Metalworking. 1 hour, and 2 hours shop. 1 credit. STRONG.

Study and practice of methods of forging, molding and machine shop work with special reference to the influence of shop-requirements on design. Class room and shop. A text book is used.

Shop fee: \$3.

MECHANICAL ENGINEERING

Ml. 102.—Descriptive Geometry. 2 hours. 2 credits. WALKER and FINEREN.

Methods of representing points, lines, surfaces and projections.

Required of first-year engineering and pre-business students.

Ml. 203.—General Mechanical Engineering. 3 hours. 3 credits. YEATON.

The fundamental laws, theories, and problems of mechanism, mechanics, and strength of materials.

Prerequisite: Ps. 203.

Required of second-year pre-business students.

MI. 204.—General Mechanical Engineering. 3 hours. 3 credits.
PRICE.

The fundamental laws, theories and problems of thermodynamics, refrigeration, and power engineering.

Prerequisite: **Ps. 204.**

Required of second-year pre-business students.

MI. 205.—General Mechanical Engineering Laboratory. 3 hours. 1 credit. FINEREN.

Laboratory exercises supplementary to **MI. 203.**

Corequisite: **MI. 203.**

Required of second-year pre-business students.

Laboratory fee: \$5.

MI. 206.—General Mechanical Engineering Laboratory. 3 hours. 1 credit. FINEREN.

Laboratory exercises supplementary to **MI. 204.**

Corequisite: **MI. 204.**

Required of second-year pre-business students.

Laboratory fee: \$5.

MILITARY SCIENCE AND TACTICS

My. 101-102.—First Year Infantry. 5 hours. 4 credits. VAN FLEET and staff.

Freshman year, compulsory. Lectures, recitations, drills, calisthenics, and ceremonies.

My. 201-202.—Second Year Infantry. 5 hours. 4 credits. VAN FLEET and staff.

Sophomore year, compulsory. Lectures, recitations, drills, calisthenics, and ceremonies.

PHYSICAL EDUCATION

Pl. 101-102.—Gymnastics. 2 hours. 1 credit. HASKELL and staff.

Instruction given in free exercises for general development and muscular coordination. Elementary work on apparatus, emphasizing form, approach, and execution.

Instruction and play in tennis, football, basketball, playground ball, track and baseball.

PHYSICS

Ps. 101-102.—Elementary Theory of Mechanics, Heat, Sound, Electricity, and Light. 3 recitations and 1 demonstration. 6 credits.

Credit will be allowed for the first semester without the second; but the second semester cannot be taken without the first. WILLIAMSON in charge.

A college course designed for the student who is not majoring in the sciences. Selected material will be treated with somewhat more emphasis on the historical development of the science and of scientific method.

Ps. 103-104.—Elementary Laboratory Physics. 3 hours laboratory, and problems. 4 credits. Credit will be given for the first semester without the second; but the second may not be taken without the first. BLESS in charge.

A series of laboratory experiments to supplement **Ps. 101-102**, and should be taken by all students electing those courses.

Laboratory fee: \$2.25 each semester.

Ps. 111-112.—Elementary Theory of Mechanics, Heat, Sound, Electricity and Light. 3 hours, and 1 hour demonstration. 6 credits. Credit will be allowed for the first semester without the second, if the student so desires; however, the second semester cannot be taken without the first. WILLIAMSON in charge.

Ps. 115-116.—Elementary Laboratory Physics. 1 hour problems and 3 hours laboratory. 4 credits. Credit will be given for the first semester without the second, if the student so desires; however, the second semester cannot be taken without the first. BLESS in charge.

A series of laboratory experiments in general physics designed to supplement Ps. 111-112 and should be taken by all students electing those courses.
Laboratory fee: \$2.25 each semester.

POLITICAL SCIENCE

Pcl. 101.—American Government and Politics. 3 hours. 3 credits. No credit toward a degree will be allowed until credit in Pcl. 102 is earned. LEAKE and staff.

A study of the structure and functions of our American national, state, local, and municipal governments.

Pcl. 102.—State and Municipal Government. 3 hours. 3 credits. LEAKE and staff.

An outline of the growth of American municipalities and a study of the organs and functional mechanism of modern cities of the United States and Europe. Emphasis will be laid upon the newer tendencies in municipal government, including the commission form and city manager plan.

PSYCHOLOGY

Psy. 201 or 0201.—General Psychology. 3 hours. 3 credits. HINCKLEY, WILLIAMS.

Facts and theories current in general psychological discussion, the sensations, the sense organs, the functions of the brain, the higher mental processes—attention, perception, memory, emotion, volition, the self; and like topics.

Psy. 206 or 0206.—Business Psychology. 3 hours. 3 credits. HINCKLEY.

The main facts of theoretical, experimental, and social psychology will be presented and applied to the fields of business problems; especially, advertising, selling, employment, and efficiency in work.

Prerequisite: Psy. 201.

SPEECH

Sch. 357 or 0357.—Business Speaking. 2 hours and 1 two-hour laboratory period. 3 credits. CONSTANS.

Reading of written reports—conduction of business conferences—analysis of speech composition—delivery of original informational and argumentative talks.

Prerequisite: Eh. 101 and 102.

Required of seniors in the course in business administration proper.

This course can be taken only by juniors or seniors in the College of Commerce and Journalism.

SOCIOLOGY

Sy. 112.—Modern Social Problems and Their Genesis. 3 hours. 3 credits. BRISTOL.

A study of some of the most important social problems of the day such as those connected with population pressure, race antagonism, the broken and disorganized family, poverty and crime. Methods of dealing with these problems. Program looking to prevention.

THE UNIVERSITY CALENDAR

1932-1933

First Semester

- September 9, 10, Friday-Saturday.....Entrance examinations.
 September 12, Monday, 11:00 a.m.....1932-33 session begins.
 September 12-17, Monday-SaturdayFreshman Week.
 September 16-17, Friday-Saturday
 noonRegistration of upperclassmen.
 September 19, Monday 8:00 a.m.....Classes for 1932-33 session begin; late
 registration fee \$5.
 September 24, Saturday 12:00 noon.....Last day for changing course without
 paying the \$2 fee.
 September 24, Saturday 12:00 noon.....Last day for registration for the first
 semester 1932-33.
 November 11, Friday.....Armistice Day; special exercises but
 classes are not suspended.
 November 23, Wednesday 5:00 p.m.....Thanksgiving recess begins.
 November 28, Monday 8:00 a.m.....Thanksgiving recess ends.
 December 17, Saturday 12:00 noon.....Christmas recess begins.

1933

- January 2, Monday 8:00 a.m.....Christmas recess ends.
 January 23, Monday 8:00 a.m.....Final examinations for the first se-
 mester begin.
 January 29, Sunday.....Baccalaureate Sermon.
 January 30, Monday 10:00 a.m.....Commencement Convocation.
 February 1, Wednesday.....Inter-Semester Day, a holiday.

Second Semester

- February 2-3, Thursday-Friday.....Registration for second semester; all
 students whose names begin with "A"
 through "M" register on Thursday; all
 others on Friday.
 February 4, Saturday 8:00 a.m.....Classes for second semester begin;
 change of course fee, \$2; late registra-
 tion fee, \$5.
 February 10, Friday 5:00 p.m.....Last day for registration for second
 semester.
 April 5, Wednesday 5:00 p.m.....Spring recess begins.
 April 10, Monday 8:00 a.m.....Spring recess ends.
 May 25, Thursday 8:00 a.m.....Final examinations begin.
 June 3-5, Saturday-Monday.....Commencement Exercises.

Entrance Examinations

Entrance examinations for admission to the various colleges of the University will be conducted for students whose credits do not meet the requirements.

Candidates wishing to take any of these examinations should notify the Registrar in writing, not later than September 1, January 15, June 1, or June 20.

For further information concerning these examinations see the *Bulletin of General Information*.

The University Record

of the

University of Florida

*Bulletin of the
Bureau of Vocational Guidance
and
Mental Hygiene*

*Annual Report
1931-1932*



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THE REGISTRAR
University of Florida
Gainesville, Florida

Research Publications.—Research publications will contain results of research work. Papers are published as separate monographs numbered in several series.

There is no free mailing list of these publications. Exchanges with institutions are arranged by the University Library. Correspondence concerning such exchanges should be addressed to the University Librarian, University of Florida, Gainesville, Florida. The issue and sale of all these publications is under the control of the Committee on Publications. Requests for individual copies, or for any other copies not included in institutional exchanges, should be addressed to the University Library, University of Florida, Gainesville Florida.

The Committee on University Publications
University of Florida
Gainesville, Florida

ANNUAL REPORT
OF THE
BUREAU OF VOCATIONAL GUIDANCE
AND
MENTAL HYGIENE

ROOM 110, PEABODY HALL

PERSONNEL

ELMER DUMOND HINCKLEY, PH.D. (Chicago)..... Director
VERNE EDMUND WILSON, M.A..... Instructor
LOUIS LA FORCE MCQUITTY..... Student Assistant

THE BUREAU OF VOCATIONAL GUIDANCE AND MENTAL HYGIENE

Observation over a period of several years has shown clearly that a large percentage of students entering the University of Florida have no definite idea of the life work which they wish to enter, and that, of those entering with a choice in this matter, many change their decision after having been subjected to the courses of instruction involved in the field of their choice. This condition naturally tended to cause a great deal of unrest among the students thus affected, and resulted in a continual changing of courses, transferring from one college to another, and other obvious attendant conditions. In order to assist those who, at the time of entrance, are in need of vocational guidance, to advise those who are having present difficulty with regard to their vocational choice, and to aid those students having mental and emotional difficulty, the need was felt for a Bureau devoted particularly to this work.

In 1931, through the influence of President Tigert, Senator Wagg, and other interested members of the Legislature, the Bureau of Vocational Guidance and Mental Hygiene was created by a special act of the Florida Legislature. The Bureau is under the direction of the Department of Psychology, and includes the following personnel: Dr. E. D. Hinckley, Director; V. E. Wilson, Instructor; and L. L. McQuitty, Student Assistant. There follows, herewith, a report of the activities of the Bureau during the past year.

VOCATIONAL GUIDANCE SERVICE

The possibility of scientific vocational adjustment emerges from the fact that there are significant and measurable differences between individuals and between occupations. By reason of these differences, individuals are better fitted for some vocations than for others; and, for any particular work, some individuals are better equipped than are others. The function of vocational guidance, then, is to analyze the characteristics, interests, and abilities of the individual; to compare these with similar traits of men successful in various types of work; and, to present these comparisons to the individual, together with complete descriptions of the occupations involved, in order that he may choose more intelligently the vocation which he will make his like work.

Since the most scientific and reliable method of checking the traits of the individual is by means of various types of tests, the Bureau uses numerous vocational tests, some of a general nature and given as a preliminary measure to all who apply for guidance, and some of a more specific variety for use in the particular instances where they are needed to supplement the other information obtained.

It is most important that the student know something about the qualifications for different types of work, the advantages and drawbacks, salary range, and other similar information with regard to each. In order to satisfy this need, the Bureau is supplied with a series of career monographs embracing numerous

occupations, the material being clearly presented, compact, and scientific, being a compilation of the results of an extended research campaign. Also, the University Library lists a number of books of a vocational nature. The material which is found in the office of the Bureau is definitely supplemented in the Library stacks. There is a great need for additional books which have been recently written, and which give latest information in new fields. These will be added as funds permit.

In addition, it is exceedingly important that the student know the avenues of approach to the work he chooses, lest he be stranded in a so-called "blind alley" job which will circumvent his activity and prevent the utilization of the full extent of his natural ability combined with his educational equipment. To meet this situation, the Bureau has supplied itself with a series of Organization, Promotion, and Progress charts for a number of vocations, showing clearly the "blind alley" jobs, the usual lines of promotion, organization on the basis of distribution of authority, progress in comparatively unorganized fields, etc. These charts are based on the results of an extensive research campaign over a period of years, and hence the data are reliable from a practical and scientific standpoint. The students have found these charts to be an excellent aid in solving their problems.

There follows a report of the activities of the Bureau during the past scholastic year:

A. ADMINISTRATION OF TESTS

1. The Psychological Examination of the American Council on Education was administered to the entering freshmen and transfer students. This is considered to be the best measure of relative intellectual capacity in general use among college students. The standing of each man in this regard is ascertained and is used in cases of maladjustment during later college life. The five parts of the test are very diagnostic of specific aspects of the general mental make-up.
2. The Strong Vocational Interest Test was administered to groups, including classes and groups at the Y.M.C.A., and to all students who called at the office for this service. By means of this test, the individual's characteristic set of interests (including specific likes and dislikes with regard to 420 different items) may be compared statistically with the characteristic set of interests of successful men in 26 different occupations. The interpretation of the score for each occupation indicates to the counsellor, and through him to the student, the possible degree of satisfaction he would merit in case he should choose that vocation for his life work. This test, used in conjunction with specific aptitude tests, enables one to give more adequate advice to the student than is possible when either test is used alone.
3. The Scholastic Aptitude Test for Medical Schools, authorized by the Association of American Medical Colleges, was administered to pre-medical and pre-dental students who intend to enter medical school next year. This test measures such factors as: comprehension and retention

of materials such as will be considered in medical school; visual memory of anatomical conditions; memory for content of printed material; pre-medical information such as is ordinarily received during the preparatory work; extent of scientific vocabulary possessed by the student; the ability of the individual to follow directions; and, the relative degree of understanding of printed material. By means of the results of the test, the possibility of success in medical school may be predicted for the student with a constantly increasing degree of accuracy. This test is now a prerequisite for entrance into most of the outstanding medical schools of the country.

4. The Roback Juristic Aptitude Test was given to law and pre-law students in groups. This test aims to measure the comparative aptitude of the student with regard to the legal field, although no legal information is required. By means of this measure, the score of the student is obtained for each of the following divisions: ability to discern and to solve problems such as those which will later be met in the law practice; the ability of the individual to assemble massed material and to arrange it into proper order with regard to the relative importance of its constituent parts; the ability to discern fine points of distinction between series of similar circumstances, and to bring out the salient matters of each; and, finally, the degree to which the individual is able successfully to refute arguments, whether they be of a practical or theoretical nature. The combination of the results of the four measures gives a good indication of the probable ability of the individual to handle similar problems and sets of conditions pertaining strictly to the law.
5. The Stanford Scientific Aptitude Test was given to engineering students, both in groups and in individual cases. This test gives a good index of the ability of the individual to handle some of the practical and theoretical calculations such as those which will be required in the engineering field. It measures such factors as: the ability of the student to proceed experimentally in the solution of a problem; the ability to distinguish between good and poor definitions; relative power of suspended judgment; ability to analyze situations for the purpose of devising the best solutions; ability to detect inconsistencies and illogical conclusions; aptitude for detecting fallacies; ability to draw correct inductions, deductions, and generalizations; extent of caution and thoroughness; proper tendencies in selecting and arranging experimental data; interpretative accuracy; and, accuracy of observation.
6. The Seashore Test for Musical Talent was administered to the members of the University Glee Club in order to supply an objective rating of musical aptitude as pertains to: ability to discriminate between fine differences in pitch; ability to distinguish between slight differences in tonal intensity; acuteness of the sense of time; ability to select the more harmonious of series of two combinations of tones presented simultaneously; the ability to recall series of tones previously presented; and, the ability to choose the more rhythmic of series of two groups of tonal

patterns. This test is the result of an exceptionally thorough standardization, and provides an accurate account of these phases of the individual's aptitude for music.

7. In addition to the afore-mentioned tests, which were administered to groups, a number of other tests are available and were used whenever the need was felt in any individual case. New tests for various purposes are constantly being added to the Bureau's files. These, in addition to those already used, will make quite a complete series of statistically standardized and usable material.

B. SCORING AND INTERPRETATION OF TEST RESULTS

The Bureau is equipped with necessary scoring devices for each of the tests included in its files. Each test of the student is carefully scored, and the results recorded in the student files of the Bureau. The name of each freshman is typed on a separate card, each card including his score on the Psychological Examination. Additional space is provided on the card for the results of additional tests which the student may take while in the University. In this way, the Bureau's information concerning each student is easily accessible. The records of the Bureau are open to the administrative officers and faculty of the University, and special reports have been made from time to time. In addition to this, the students may receive their scores on vocational tests at any time, and, in exceptional instances, the result of the Psychological Examination is interpreted for them. Each student is interviewed in the light of the results of the various tests which he has taken, and appropriate advice is given. The interview is one of the most important phases in the vocational work. It provides a means of personal contact with the student, and in this way the information gained from the test results may be applied to the student's own particular circumstances.

C. VOCATIONAL INFORMATION

It has been the experience of the Bureau that a majority of students coming here for vocational advice know little or nothing about the various occupations open to them. Hence, a considerable amount of informative material has been added to the Bureau's equipment. This comprises a series of research monographs presenting the necessary information about more than fifty different vocations and professions. These are very readable and authentic, and give the student a panoramic view of the occupation from the standpoints of type of work, requirements and qualifications, necessary educational training, salary range, permanency, etc. When the individual is in a quandary as to his life work, he is first given the General Interest Test, and then is advised to obtain all possible information with regard to a number of vocations, for only by knowing something about a number of possibilities is the student enabled to make an intelligent decision for himself. In addition to this material, there are many books of a vocational nature in the Library; these add to the well-rounded view which is so necessary on the part of the applicant for vocational counsel.

Together with the afore-mentioned monographs, the Bureau is supplied with a series of Organization, Promotion, and Progress charts covering a variety of different occupations. The Organization Chart illustrates the grouping, supervising, and subordinating of employees in the industrial field, with regard for their relation to each other, and with regard for exercise of authority and control. The purpose of this chart is to present to the student a comprehensive picture of the entire personnel within an industry.

The Promotion Chart portrays the various lines of advancement open to the worker, showing all the jobs in a particular field, and the relations between jobs. By means of this chart, in conjunction with the Organization Chart, the individual is enabled to foresee the possibility of advancement from various starting points, and is thus equipped to judge his entrance accordingly. Herein, the student may determine the qualifications which he must possess in order for him to advance in a particular field.

The Progress Chart is concerned with the professions which do not ordinarily lend themselves to consideration in terms of organization and promotion, e. g., the field of Law or Medicine. These charts illustrate the various lines which may be followed in widely varied fields of unorganized activity.

These charts appeal to the student, because they present in an objective way a wealth of information which is easily visualized. These, in conjunction with the research monographs and vocational books, give the student a thorough view of a wide variety of vocations.

On account of the lack of space for the Bureau's activities, the Psychological Laboratory has been used for the purpose of a vocational reading room at times when it was available.

D. RESEARCH

A number of specific studies have been undertaken by the Bureau in the hope of improving the validity of some of the methods used. The amount of research is limited by the available funds, but it is hoped that this very important part of the Bureau's activity may be expanded definitely in the very near future.

MENTAL HYGIENE SERVICE

In addition to the vocational service previously described, the Bureau offers a much needed service to the students who find their work hampered by the continual recurrence of various problems, worries, maladjustments, and unnatural emotional conditions. This service is open to those who request it of their own accord, and also to those who consult the Bureau upon advice of members of the faculty and administrative officers.

The aim of this service is to locate cases of maladjustment, emotional instability, and mental disease among the students; to administer procedures which will make possible the adequate diagnosis of the difficulty; and, to give appropriate treatment, when practical.

The regularly accepted psychiatric procedures are used in the treatment of the mental cases, the major emphasis being placed upon the personal interview. Certain specific tests are used to supplement the interview, and, as a result of the combination of the two methods, an adequate diagnosis is made, and the correct treatment determined for each case.

This service has not been widely publicised, lest an unfortunate stigma become attached to the mental patient. However, it has been a very definite aid to many of the students, and it is the desire of the Bureau that more mentally perplexed students may become familiar with this part of the service.

STATISTICS OF TESTS ADMINISTERED BY THE BUREAU
DURING THE SCHOOL YEAR 1931-1932

American Council Psychological Examination.....	856
Terman Test of Mental Ability.....	30
Strong Vocational Interest Blank.....	315
Strong Blank Scored for Total Occupations.....	1243
Stanford Scientific Aptitude Test.....	52
Roback Juristic Aptitude Test (4 parts each).....	23
Seashore Musical Aptitude Test.....	20
Medical Aptitude Test.....	35
Bernreuter Personality Inventory.....	245
Neyman-Kohlstedt Introversion-Extroversion Test.....	210
Pressey X-O Test.....	37
Hinckley Attitude Toward Negro Scale, Form A.....	192
Hinckley Attitude Toward Negro Scale, Form B.....	99
Rosander Attitude Scale.....	100
Miscellaneous Tests.....	48
Total Tests Administered.....	2262
Total Interviews (Vocational and Mental).....	368

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University of Florida

Bulletin of the

College of Agriculture

With Announcements for the Year

1932-33



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The Committee on University Publications
University of Florida
Gainesville, Florida

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 ALLEN PAUL MULLINS, Herdsman

BOTANY AND BACTERIOLOGY

MADISON DERRELL CODY, M.A., Professor of Botany and Bacteriology
 WILLIAM RICHARD CARROLL, M.S., Assistant Professor of Botany and Bacteriology

ENTOMOLOGY AND PLANT PATHOLOGY

RALPH DAVIS DICKEY, B.S.A., Assistant Professor of Entomology and Plant Pathology
 JOHN THOMAS CREIGHTON, M.S., Instructor in Entomology and Plant Pathology
 JOHN ORIAN ROWELL, B.S., Graduate Assistant in Entomology and Plant Pathology

HORTICULTURE

WILBUR LEONIDAS FLOYD, M.S., Professor of Ornamentals and Forestry
 EARLL LESLIE LORD, M.S., Professor of Pomology
 CHARLES ELLIOTT ABBOTT, M.S., Assistant Professor of Propagation and Vegetable Growing
 JOHN VERTREES WATKINS, M.S.A., Assistant Horticulturist
 GERVACIO E. JUAN, B.S.A., Graduate Assistant in Horticulture

LANDSCAPE DESIGN

ALAN BEVERLY BURRITT, M.L.A., Associate Professor of Landscape Design

POULTRY HUSBANDRY

NATHAN WILLARD SANBORN, M.D., Professor of Poultry Husbandry

VETERINARY SCIENCE

ARTHUR LISTON SHEALY, B.S., D.V.M., Professor of Veterinary Science

EXPERIMENT STATION STAFF

AGRONOMY

WILLIAM EUGENE STOKES, M.S., Agronomist, Head of Department
WALTER ANTHONY LEUKEL, Ph.D., Associate Agronomist
JOHN PERLIN CAMP, M.S.A., Assistant Agronomist
FRED HAROLD HULL, M.S., Assistant Agronomist
GEORGE EDGAR RITCHEY, M.S., Assistant Agronomist (In cooperation with
U.S. Department of Agriculture)
JACOB DEWEY WARNER, M.S., Assistant Agronomist
HENRY ZEIGLER, Farm Foreman for Agronomy and Animal Husbandry

ANIMAL HUSBANDRY

ARTHUR LISTON SHEALY, B.S., D.V.M., Veterinarian, Head of Department
RAYMOND BROWN BECKER, Ph.D., Associate in Dairy Husbandry
DORSEY ADDREN SANDERS, B.S., D.V.M., Associate Veterinarian, West Palm
Beach Field Laboratory
WAYNE MILLER NEAL, Ph.D., Assistant in Animal Nutrition
EZEKIEL FRED THOMAS, D.V.M., Assistant Veterinarian
P. T. DIX ARNOLD, B.S., Assistant in Dairy Investigations
WILLIAM WALTER HENLEY, B.S.A., Assistant in Animal Husbandry

CHEMISTRY

RUDOLPH WILLIAM RUPRECHT, Ph.D., Chemist, Head of Department
ROBERT MARLIN BARNETTE, Ph.D., Associate Chemist
CHARLES EDWARD BELL, M.S., Assistant Chemist
JOHN MELTON COLEMAN, B.S., Assistant Chemist
HASTINGS WYMAN JONES, M.S., Assistant Chemist
HERBERT WILLIAMS WINSOR, B.S.A., Assistant Chemist

AGRICULTURAL ECONOMICS

CLARENCE VERNON NOBLE, Ph.D., Agricultural Economist, Head of Department
BRUCE MCKINLEY, A.B., B.S.A., Associate Agricultural Economist
MARVIN ADEL BROOKER, Ph.D., Associate Agricultural Economist
ZACK SAVAGE, M.S.A., Assistant Agricultural Economist

HOME ECONOMICS

QUIDA DAVIS ABBOTT, Ph.D., Head of Department
CHESTER FREDERICK AHMANN, Ph.D., Physiologist
LEONARD WILLIAM GADDUM, Ph.D., Biochemist

ENTOMOLOGY

JOSEPH RALPH WATSON, M.A., Entomologist, Head of Department
CARLOS C. GOFF, M.S., Assistant Entomologist, Leesburg Field Laboratory
EDGAR FREDERICK GROSSMAN, M.A., Assistant Entomologist, Cotton
ARCHIE NEWTON TISSOT, Ph.D., Assistant Entomologist
JOHN W. WILSON, Ph.D., Assistant Entomologist, Pierson Field Laboratory
FRED WINTER WALKER, Assistant Entomologist, Monticello Field Laboratory
HOMER EELLS BRATLEY, M.S.A., Assistant in Entomology

HORTICULTURE

ARTHUR FORREST CAMP, Ph.D., Horticulturist, Head of Department
HAROLD MOWRY, B.S.A., Associate Horticulturist
GULIE HARGROVE BLACKMON, M.S.A., Pecan Culturist
MARTIN RUSSELL ENSIGN, M.S., Assistant Horticulturist
ARTHUR LOUIS STAHL, Ph.D., Assistant Horticulturist
CLINTON BURTON VAN CLEEF, M.S.A., Foreman of Test Grounds

PLANT PATHOLOGY

WILLIAM BURLEY TISDALE, Ph.D., Plant Pathologist, Head of Department
ALBERT NELSON BROOKS, Ph.D., Associate Plant Pathologist, Plant City Field
Laboratory
ARTHUR STEVENS RHOADS, Ph.D., Associate Plant Pathologist, Cocoa Field
Laboratory
AUTHOR HAMNER EDDINS, Ph.D., Associate Plant Pathologist, Hastings Field
Laboratory
MARION NEWMAN WALKER, Ph.D., Associate Plant Pathologist, Leesburg Field
Laboratory
GEORGE FREDERICK WEBER, Ph.D., Associate Plant Pathologist
RICHARD KENNETH VOORHEES, M.S., Assistant Plant Pathologist
KENNETH WILFRED LOUCKS, M.S., Assistant Plant Pathologist
WILLIAM BYRON SHIPPY, Ph.D., Assistant Plant Pathologist, Leesburg Field
Laboratory
ERDMAN WEST, B.S., Mycologist
DAVID G. KELBERT, Assistant Plant Pathologist, Bradenton Field Laboratory
ROBERT EMMETT NOLEN, M.S.A., Field Assistant in Plant Pathology, Plant
City Field Laboratory

CITRUS EXPERIMENT STATION, LAKE ALFRED

JOHN HENRY JEFFERIES, Superintendent
BONNIE REID FUDGE, Ph.D., Assistant Chemist
WILLIAM ABRAHAM KUNTZ, M.S., Assistant Plant Pathologist
GEORGE DEWEY RUEHLE, Ph.D., Assistant Plant Pathologist
WILLIAM L. THOMPSON, B.S., Assistant Entomologist

EVERGLADES EXPERIMENT STATION, BELLE GLADE

ROBERT VERRILL ALLISON, Ph.D., Soils Specialist in Charge
BENJAMIN ARTHUR BOURNE, M.S., Associate Plant Physiologist, Sugarcane
Investigations
ADRIAN DAANE, Ph.D., Associate Agronomist
RICHARD NUGENT LOBDELL, M.S., Associate Entomologist
JOSEPH R. NELLER, Ph.D., Associate Biochemist
FREDERICK DELOS STEVENS, B.S., Associate Agronomist, Sugarcane Investigations
HERMAN HAMILTON WEDGORTH, M.S., Associate Plant Pathologist
MALCOLM ROY BEDSOLE, M.S.A., Assistant Chemist, Soils
RALPH WYMAN KIDDER, B.S., Farm Foreman

SUB-TROPICAL EXPERIMENT STATION, HOMESTEAD

HERBERT SNOW WOLFE, Ph.D., Associate Horticulturist in Charge
WILLARD MERWIN FIFIELD, M.S., Assistant Horticulturist
STACY O. HAWKINS, M.A., Assistant Plant Pathologist

NORTH FLORIDA EXPERIMENT STATION, QUINCY

LEVI OTTO GRATZ, Ph.D., Associate Plant Pathologist in Charge
WILLIAM ANGUS CARVER, Ph.D., Assistant Cotton Specialist
RAYMOND MERCHANT CROWN, B.S.A., Field Assistant, Cotton
RANDALL RICH KINCAID, M.A., Assistant Plant Pathologist
JESSE REEVES, Farm Foreman

AGRICULTURAL EXTENSION SERVICE STAFF

COOPERATIVE AGRICULTURAL DEMONSTRATION WORK

WILLIAM THOMAS NETTLES, B.S., District Agent
 HAROLD GRAY CLAYTON, M.S.A., District Agent
 JESSE LEE SMITH, District Agent and Extension Agronomist
 RAYMOND WILLIAM BLACKLOCK, B.A., Boys' Club Agent
 HAMLIN L. BROWN, B.S.A., Dairyman
 EZRA FRANKLIN DEBUSK, B.S., Citrus Pathologist and Entomologist
 NORMAN RIPLEY MEHRHOF, M.Agr., Poultryman
 WALTER JEFFERSON SHEELY, B.S., Animal Husbandman (In cooperation with
 U.S. Department of Agriculture)
 JOHN EDWIN TURLINGTON, Ph.D., Agricultural Economist
 FRANK WARNER BRUMLEY, M.S.A., Agricultural Economist, Farm Management
 WYNFRED ROSCOE BRIGGS, B.S.A., Assistant Economist, Farm Management
 DOYAL EDGAR TIMMONS, M.S.A., Agricultural Economist, Marketing

COOPERATIVE HOME DEMONSTRATION WORK, TALLAHASSEE

FLAVIA GLEASON, State Agent
 LUCY BELLE SETTLE, B.S., District Agent
 RUBY McDAVID, District Agent
 MARY ELLEN KEOWN, M.S., District Agent
 ISABELLE S. THURSBY, Food and Marketing Agent
 ANNA MAE SIKES, B.S., Extension Nutritionist
 VIRGINIA PEARL MOORE, Home Improvement Specialist

COUNTY AGENTS

Alachua, Gainesville: F. L. Craft; Mrs. Grace F. Warren
 Bradford, Starke: L. T. Dyer; Miss Pearl Jordan
 Calhoun, Blountstown: John G. Kelly; Miss Josephine Nimms
 Citrus and Sumter, Inverness: Mrs. Elizabeth W. Moore
 Dade (North), Miami: J. S. Rainey; Miss Pansy Norton; (South) Home-
 stead: C. H. Steffani
 DeSoto, Arcadia: J. J. Heard
 Dixie, Cross City: D. M. Treadwell
 Duval, Jacksonville: A. S. Lawton, Miss Pearl Lafitte; C. H. Magoon (Asst.)
 Escambia, Pensacola: E. P. Scott; Miss Ethel Atkinson
 Gadsden, Quincy: Miss Elise Lafitte
 Hamilton, Jasper: J. J. Sechrest

Hernando, Brooksville: B. E. Lawton
 Highlands, Sebring: L. H. Alsmeyer
 Hillsborough (East), Plant City: C. P. Wright; Miss Motelle Madole;
 (West), Tampa: Miss Allie Rush
 Holmes, Bonifay: Mrs. Bettie A. Caudle
 Jackson, Marianna: S. H. Rountree; Miss Eleanor Clark
 Jefferson, Monticello: E. H. Finlayson; Miss Ruby Brown
 Lafayette, Mayo: W. J. Davis
 Lake, Tavares: C. R. Hiatt; Mrs. Mary Allen
 Lee, Ft. Myers: W. P. Hayman; Miss Clarine Belcher
 Leon, Tallahassee: G. C. Hodge; Mrs. Ruth C. Kellum
 Levy, Bronson: N. J. Albritton
 Liberty, Bristol: Dewey H. Ward; Miss Josephine Nimmo
 Manatee, Bradenton: J. H. Logan; Miss Margaret Cobb
 Marion, Ocala: Clyde H. Norton; Miss Tillie Roesel
 Martin, Stuart: C. P. Heuck
 Okaloosa, Crestview: Joseph W. Malone; Miss Bertha Henry
 Okeechobee, Okeechobee: C. A. Fulford
 Orange, Orlando: K. C. Moore; Mrs. Nellie W. Taylor
 Osceola, Kissimmee: J. R. Gunn; Miss Albina Smith
 Palm Beach, West Palm Beach: M. U. Mounts; Mrs. Edith Y. Barrus
 Pinellas, Clearwater: William Gomme; Mrs. Joy Belle Hess
 Polk, Bartow: F. L. Holland; Miss Lois Godbey; Miss Mosel Preston (Asst.)
 St. Johns, St. Augustine: Loomis Blich; Miss Anna Heist
 Santa Rosa, Milton: John G. Hudson; Miss Eleanor Barton
 Suwannee, Live Oak: N. G. Thomas
 Taylor, Perry: R. S. Dennis; Miss Floy Moses
 Union, Lake Butler: L. T. Dyer; Miss Pearl Jordan
 Volusia, DeLand: Miss Orpha Cole
 Wakulla, Crawfordville: Henry Hudson
 Walton, DeFuniak Springs: Mitchell Wilkins; Miss Eloise McGriff
 Washington, Chipley: Gus York

NEGRO LOCAL FARM AND HOME DEMONSTRATION AGENTS

A. A. Turner, Local District Agent, Tallahassee
 Rosa J. Ballard, Local District Agent, Tallahassee

COUNTY WORKERS

Alachua, Gainesville: V. L. Postelle
Columbia, Lake City: E. S. Belvin
Duval, Jacksonville: Ethel Mae Norman
Hamilton, Jasper: N. H. Bennett
Jackson, Marianna: J. E. Granberry
Jefferson, Monticello: M. E. Groover
Leon, Tallahassee: Alice W. Poole
Marion, Ocala: W. B. Young; Reddick: Idella Ranson
Madison, Madison: Althea Ayer
Orange, Orlando: Mamie W. Wright
Suwannee, Live Oak: C. T. Evans
St. Johns, St. Augustine: M. A. Caldwell
Sumter, Webster: Diana H. Buie

GENERAL STATEMENT

The College of Agriculture is composed of three divisions:

1. Instruction Division (the College proper)
2. Research Division (Experiment Station)
3. Agricultural Extension Service

THE COLLEGE

AIM AND SCOPE

The College of Agriculture was established under the Act of Congress creating and endowing institutions for the liberal and practical education of the industrial classes. Recognition of agriculture as a branch of collegiate instruction is a distinctive feature of schools thus founded.

The aim of the College is to afford young men the best possible opportunity for gaining technical knowledge and training in the art and science of agriculture. About one-third of the student's time is devoted to technical studies, the other two-thirds to cultural studies and basic sciences. A foundation is thus laid which will enable graduates to become effective producing agriculturists or leaders in educational work.

BUILDINGS AND EQUIPMENT

The Agriculture Building, a brick and concrete structure three stories high, houses offices, classrooms, and laboratories for several departments of the College, including Agronomy, Agricultural Engineering, Animal Husbandry and Dairying, Horticulture, Landscape Design, Entomology, and Plant Pathology.

In the Horticulture Building, a three story structure of brick and concrete, are contained the office of the Dean, the offices of Agricultural Extension workers, offices of the State Plant Board, classrooms and laboratories of the departments of Agricultural Economics, Poultry Husbandry, and Veterinary Science, and the Library and mailing rooms of the Experiment Station.

The College Farm, consisting of 145 acres, is used primarily for purposes of instruction. It is equipped with a foreman's home, a general barn for work stock, a modern dairy barn, silos, a beef cattle barn, a veterinary hospital, a sweet potato storage house, greenhouses, corn crib, fertilizer house, machinery shed, slat house and cold frames, poultry houses, stock lots and sheds, irrigation systems, cattle and hogs of various types and breeds, and other farm animals.

The Experiment Station Farm, of over 700 acres, adjoins the College Farm and is accessible for instruction and demonstration.

LIBRARIES

The University Library contains many works on agriculture and horticulture. Each department has a small collection of well selected volumes which are always accessible. In the Experiment Station Library are bulletins from

the United States Department of Agriculture and from the experiment stations of the world, all fully indexed and carefully filed. Trained librarians assist the student in locating needed references.

THE AGRICULTURAL CLUB

The Agricultural Club is a voluntary association of students enrolled in the College of Agriculture, its purpose being to provide students with training in public speaking and in preparation for leadership. Weekly meetings are held, at which programs consisting of essays and debates on agricultural and civic subjects are presented. The Club publishes monthly during the school year *The Florida College Farmer*, the purpose of which is to give students in the College experience and training in the field of agricultural journalism, and to provide its readers with useful information.

SCHOLARSHIPS AND LOAN FUNDS

Fellowship.—American Cyanamid Company

Scholarships.—County Agricultural; Boys' Clubs

Loan Fund.—William Wilson Finley Foundation

For details concerning these and other scholarships, see the *Bulletin of General Information* for 1932-1933, pages 165-170.

Opportunities frequently occur for students to work in the fields and truck gardens, about the barns, in the buildings, and at the Agricultural Experiment Station. Such labor is instructive as well as remunerative. A few students are employed as waiters, as janitors, and in other capacities about the campus. For further information concerning self help, see the *Bulletin of General Information* for 1932-1933, pages 148, 149.

DONATIONS AND LOANS

The laboratories have been supplied with much of their farm machinery for instructional purposes through the generosity of the following manufacturers and distributors: McCormick-Deering Co., Jacksonville; Gulf Fertilizer Co., Tampa; Florida Agricultural Supply Co., Orlando; Peninsula Chemical Co., Orlando; Gould Pump Co., Seneca Falls, N. Y.; Owensboro Ditcher Co., Owensboro, Ky.; Oliver Chilled Plow Works, South Bend, Ind.; Challenge Co., Batavia, Ill.; DeLaval Separator Co., New York; Plow Mate, Inc., Cleveland, O.; Caterpillar Tractor Co., Peoria, Ill.

SUMMER SESSION

Courses offered by the College of Agriculture during the Summer Session are so rotated that all courses for which there is a reasonable demand are offered at least once every two or three years.

Mature students who have not completed entrance requirements may, with the approval of the Dean of the College and the Director of the Summer Session, and provided they conform to other requirements of the Summer Session, enroll as adult specials for the practical value of the information gained in courses desired.

THE AGRICULTURAL EXPERIMENT STATION

AIM AND SCOPE

The Agricultural Experiment Station is an institution founded by Congressional act for the purpose of acquiring and diffusing agricultural knowledge. From the enacting clause it is evident that Congress intended to establish such an institution, for purely investigational work, in connection with every college and university receiving the benefits of the original "Land-Grant Act".

The Florida Agricultural Experiment Station was founded in 1887 and has continued to operate without interruption since that time. Part of its funds are obtained from Federal sources and, in compliance with Federal law, such income is used for acquiring new and important knowledge in regard to crops, soils, and livestock, and for research in agriculture and home economics. No part of these funds can be expended, either directly or indirectly, for teaching purposes or for holding farmers' institutes, and only a small per cent of the Station's income may be used for buildings. In order to receive the benefits of the Federal Adams, Hatch, and Purnell funds, the Station must, before any money is spent in investigation, submit plans or projects for proposed experiments to the Office of Experiment Stations of the United States Department of Agriculture for approval.

Funds appropriated by the State of Florida are budgeted for definite investigations or lines of work, and it is the duty of the Station to conduct these investigations and secure and publish the information needed.

LOCATION

The Main Experiment Station is located at the University. Its administrative offices, editorial rooms, and library are in the Horticulture Building; its departmental offices and laboratories occupy the entire three floors of the Experiment Station Building. The advantages of having the Main Station at the University are obvious. The research workers deliver popular technical lectures, either to the student-body as a whole or to special clubs and local organizations. The experiment fields and orchards, as well as the research laboratories, contribute to the opportunities of students for studying methods of scientific investigation. Students with special aptitude have an opportunity of assisting the specialists in charge. Minor positions, such as those of laboratory assistants, are occasionally open and whenever possible are given to students of the University. The fields and plots of the Main Station adjoin the University campus and are a part of the University grounds.

In addition to the Main Station, it has been found necessary to establish branch stations at four points in the state in order to serve areas in which conditions, soils, etc., are radically different from those at the Main Station. These are: the Citrus Station at Lake Alfred, for the special study of problems of the citrus grower; the North Florida Station at Quincy, for the study of the problems of particular interest to the tobacco grower and for research work on general agricultural problems of West Florida; the Everglades Station at Belle Glade, for the purpose of making investigations, tests, and experiments in agricultural problems as applied to conditions of the Everglades; and the Sub-

Tropical Station at Homestead, for problems peculiar to this sub-tropical area.

The branch stations are units of a general experiment station system and are directed and administered from the general office at the Main Station. A superintendent, or other official, is in charge of each branch station and research workers are permanently assigned to the various stations for work upon the projects under investigation. These workers are responsible to department heads at the Main Station for the work done by them or under their direction.

The Main Station and its branches constitute a system which is operated to give, as fully as possible, the maximum of scientific results with the minimum of administrative expense.

FIELD LABORATORIES

Several field laboratories have been established at various points over the state where problems peculiar to a particular crop or area require investigation. At present these include a field laboratory at Hastings for the study of Irish potato diseases, a second at Bradenton for the study of nailhead rust of tomatoes, a third at Cocoa for certain citrus investigations, a fourth at Plant City for the study of strawberry diseases, a fifth at Monticello for the study of pecan insect pests and diseases, a sixth at Leesburg for the study of diseases and insect pests of watermelons, ferns, and ornamentals, and a seventh at West Palm Beach for the study of anaplasmosis of cattle.

The field laboratory is not a permanent feature of the Experiment Station system, like the branch stations, but may be established wherever the need is apparent for work which cannot be performed at the regular stations. When this work has been accomplished, the laboratory is removed or abolished. One or more research workers are placed at each field laboratory, under the general direction of the department, or departments, of the Main Station concerned with the work to be done.

EXPERIMENT STATION LIBRARY

The library of the Experiment Station is maintained for the use of the agricultural research workers. Its reading room, however, is open to anyone caring to use it. It is a depository for the publications issued by the United States Department of Agriculture and by all agricultural experiment stations of this and many foreign countries. It contains also the most important general scientific and technical journals and periodicals, as well as text books and reference books pertaining to agriculture and the related sciences. The library is located on the second floor of the Horticulture Building.

LINES OF INVESTIGATION

The lines of investigation conducted by the Station are distributed among several departments: agronomy, agricultural economics, animal husbandry, chemistry, cotton investigations, entomology, home economics, horticulture, and plant pathology. The work of the Station is, however, not sharply divided among these different departments. The staff formulates what are known as

projects, the work of which is continued regardless of whether its ramifications take it into one or another department, and it is possible for two or more departments to be engaged in the study of various phases of the same problem.

At the present time more than 150 projects are being investigated, including as many as possible of the major problems of the state's agricultural industries.

PUBLICATIONS

Publications of the Station fall into three classes: bulletins, press bulletins, and annual reports. The bulletins contain more or less complete results of particular investigations. At least four, and often as many as eight or ten, are issued annually. The press bulletins are prepared in order to bring to the citizens of Florida information connected with various phases of certain projects in which all phases have not been completed, or relative to small projects on which the information to be released does not require a large publication. Press bulletins are issued at short intervals. The annual reports contain brief statements of the work done during each year, as well as the expenditure of funds. All of these publications are distributed free upon request to the Director.

AGRICULTURAL EXTENSION SERVICE

COOPERATIVE AGRICULTURAL EXTENSION WORK

The Agricultural Extension Service supports a system of practical education for the purpose of teaching the results of scientific experiments to the present and future farmer and housewife. This work includes:

Demonstrations in agricultural and horticultural crops, dairying, animal husbandry, poultry raising, cooperative organizations, agricultural economics, insect and disease control.

Boys' agricultural clubs, including corn, pig, and fat barrow, peanut, calf, potato, bee and citrus clubs.

Extension schools, including Farmers' Week, held annually at the University, county and home demonstration agents' meetings, boys' and girls' annual club meetings.

Home demonstration work, including gardening, poultry, bee keeping, marketing, food conservation, nutrition, clothing, home improvement clubs, and civic improvement clubs. Headquarters for this work are at the Florida State College for Women, Tallahassee.

Demonstration work with colored farmers, including club work for boys and girls, and demonstration work with men and women. Headquarters are located at the Florida Agricultural and Mechanical College for Negroes, Tallahassee.

SMITH-LEVER ACT

In accordance with the terms of the Smith-Lever Act, effective July 1, 1914, agricultural extension work is carried on cooperatively by the United States Department of Agriculture and the State of Florida. In addition to this, in 1919 Congress passed the Smith-Lever Supplementary Act, the Capper-Ketcham Act in 1927 and an additional Cooperative Act in 1930.

The purpose of these acts may be seen in the following excerpt:

“. . . . cooperative agricultural extension work shall consist of giving of instruction and practical demonstration in agriculture and home economics to persons not attending or resident in said colleges in the several communities, and imparting to such persons information on said subjects through field demonstrations, publications, and otherwise; and this work shall be carried on in such a manner as may be mutually agreed upon by the Secretary of Agriculture and the State agricultural college or colleges receiving the benefits of this act.”

Extension work is now conducted in 46 counties.

FUNDS AVAILABLE

By the terms of the Smith-Lever Act, the College of Agriculture receives from Congressional appropriations \$10,000 annually, and an additional sum, which was increased annually until 1922, the State each year appropriating an equal amount. The Legislature has enacted laws enabling the State to secure the benefits of both the original Smith-Lever, the Capper-Ketcham, and the Supplementary Acts, as well as making a direct State appropriation for placing agents in additional counties. The total amount of State and Federal funds available for the fiscal year ending June 30, 1932, is \$235,772.49.

ANNUAL MEETING OF EXTENSION WORKERS

The annual meeting of county and home demonstration agents is held at the University of Florida to give instruction and to make plans for future work. Extension workers from the United States Department of Agriculture and the State of Florida assemble in joint sessions to discuss the work with county and home demonstration agents. The meeting is largely a series of conferences. Committees are appointed to make recommendations for the conduct of the work throughout the coming year.

BOYS' AGRICULTURAL CLUBS AND SHORT COURSES

Agricultural clubs are organized among the boys of the farms for the purpose of teaching them by practical demonstrations better methods of farming. Business men and agricultural organizations annually give successful boys free trips to the University to attend the short courses in agriculture. This is done to stimulate greater interest in club work and has caused many boys to enter college for a four-year course. The Short Course is held from June 6 to June 11.

WOMEN'S HOME DEMONSTRATION CLUBS

Home demonstration clubs are organized by home demonstration agents for the benefit of the women of rural communities. These clubs have definite programs and, under the leadership of the county home demonstration agent, undertake to carry out such programs as will improve home life.

GIRLS' CLUBS

Clubs are organized for girls between the ages of ten and eighteen. Each member is required to undertake a definite piece of work under the leader-

ship of her home demonstration agent. This club work enters into many phases of home life and is intended to teach the members the best practices for the improvement and development of the rural home.

CLUB CONTESTS

Contests are conducted for the purpose of giving credit to club members for the work they have accomplished, to display the year's work so that it will be educational, and to stimulate interest in every phase of farm and home life. Exhibits are placed on display, record books are examined, and rewards are given on the basis of quality, record, and financial showing. Substantial prizes such as money, merchandise, and scholarships to the University or to the State College for Women are offered each year.

PUBLICATIONS

The publications of the Service include bulletins, circulars, annual reports, a club paper, a weekly clip-sheet for newspapers, and an annual calendar. The bulletins and circulars contain useful information on farm and home subjects, while the annual reports give details of the work accomplished by the staff and the county representatives. The weekly clip-sheet, or *Agricultural News Service*, contains items of news from the Agricultural Experiment Station, the Extension Service, and the College of Agriculture, as well as timely information on varied agricultural topics. This sheet is sent to about 200 daily and weekly papers of Florida. The calendar contains suggestions on farm work in Florida for each month of the year.

The Agricultural Economist, issued monthly by the Economics Department of the College, furnishes data on the economics of agriculture in Florida. Copies are sent to Extension agents, agricultural teachers, cooperating agricultural institutions, and the state press.

Bulletins are sent free to citizens of the state, upon request to the Director.

AGRICULTURAL RADIO PROGRAMS

Radio programs are broadcast from Station WRUF daily during the week from 12:15 to 12:45. Talks are made by members of the College of Agriculture faculty and the Experiment Station and Agricultural Extension Service staffs. Material supplied by the United States Department of Agriculture, and copies of questions received and answered by staff workers are presented regularly.

FLORIDA NATIONAL EGG-LAYING CONTEST

The Florida National Egg-Laying Contest is conducted at Chipley, under the supervision of the Agricultural Extension Service of the University. Housing facilities are available for one hundred pens of contest birds. Records of the production of breeding stock are kept so that poultrymen of the state may have information which will be helpful in securing high-producing breeding stock.

A special act of the Legislature provided for establishment and maintenance of the contest, and placed it under the supervision of the Agricultural Extension Service.

FARMERS' WEEK

AUGUST 8-12, 1932

The activities of Farmers' Week are designed to fit the needs of the following classes: farm men and women of all ages who recognize their need for some training in scientific agriculture in order to render more effective the practical knowledge they have already gained; young men who, though compelled to drop out of school, desire to devote a short time to special preparation for work on the farm; city students who wish to fit themselves for farm life; and colonists who wish to gain information concerning methods and conditions of farming in Florida.

The laboratory equipment, the purebred livestock, and the farms are available for instructional purposes; the Agricultural Experiment Station and State Plant Board afford visitors an opportunity for observation and inquiry. Care has been taken to meet the needs of practical farmers. The courses consist of lectures, laboratory work, and field observations and demonstrations in general field crops, soils, vegetable gardening, citrus, animal husbandry, dairying, poultry, veterinary science, bee culture, and agricultural engineering.

There are no age limits nor educational requirements for admission. No tuition fee is charged. The necessary expenses for room and board will approximate \$1.25 per day. The University dormitories and dining room are available to those attending.

AGRICULTURAL MEETINGS

A number of meetings for people interested in agriculture are held annually at the University. Laboratories, classrooms, and exhibits, as well as growing crops, barns and other equipment, are placed freely at the service of visitors.

CORRESPONDENCE COURSES

Correspondence courses in agriculture are offered under the General Extension Division of the University.

ADMISSION TO THE COLLEGE

GENERAL REQUIREMENTS

For full information concerning the general requirements for admission to the University of Florida, the prospective student should consult the *Bulletin of General Information* for 1932-1933, pages 149-158.

SPECIAL REQUIREMENT

For the courses leading to the degree of Bachelor of Science in Agriculture and the degree of Bachelor of Science in Landscape Design, the candidate for admission must present two units of one foreign language, in addition to meeting the general requirements for admission to the University. This

language requirement may be waived, however, if the candidate presents a total of four units from the following groups of subjects:*

History and Social Sciences

- Ancient history, one unit
- English history, one unit
- Medieval history, one unit
- American history, one-half or one unit
- Civics, one-half or one unit
- Sociology, one-half unit
- Economics, one-half unit

Natural Science

- Biology, one unit
- Botany, one-half unit
- Chemistry, one unit
- General science, one unit
- Physical geography, one unit
- Physics, one unit
- Physiology, one-half or one unit
- Zoology, one-half unit.

SPECIAL STUDENTS

Applicants for admission who are at least twenty-one years of age and who wish to pursue a special and limited course of study may enter the College of Agriculture without meeting the entrance requirements. They must, however, secure the approval of the Dean of the College.

Students eighteen years of age and over may enter the four-months and one-year courses offered in the College of Agriculture without the required entrance units, and without examination. They are expected to take not less than fourteen nor more than nineteen hours of work from the courses listed on page 341.

Special students are subject to all regulations of the University except the entrance requirements.

FEEES

For details concerning fees and for an estimate of the annual living expenses of the average student registered in the University, see the *Bulletin of General Information* for 1932-1933, pages 159-160.

RULES AND REGULATIONS

Upon registration, each student should secure a copy of the *Bulletin of By-Laws*. He is held responsible for the observance of all regulations contained therein as long as he is connected with the University of Florida.

*Note: One unit in foreign language is never accepted to fulfill entrance requirements. Only one unit will be accepted in biology, botany, and zoology combined.

DEGREES AND CURRICULA

Two undergraduate degrees are offered in the College of Agriculture: *Bachelor of Science in Agriculture* and *Bachelor of Science in Landscape Design*.

UPPER AND LOWER DIVISIONS

The College is divided into a Lower and an Upper Division. The Lower Division consists of the freshman and sophomore work, and the Upper Division of the junior and senior work.

The student should select his major in the sophomore year if he takes any of the options of that year; otherwise, he must select his major subject not later than the beginning of his junior year. He may major in any department of the College offering 15 hours or more of work in courses numbered 200 or above, or in Agricultural Education.

Students in the Lower Division are under the general guidance of the Dean or his appointee; students in the Upper Division are under the guidance of the head of the department in which they major, or his appointee. The curriculum of the student during his senior year is subject to the approval of his advisory committee, his major professor and the Dean of the College.

The passing of the student from the Lower to the Upper Division is determined by the Dean and the major professor concerned.

THE CURRICULUM IN AGRICULTURE

The curriculum in Agriculture extends over a period of four years and contains both general and specialized courses. The first two years are devoted almost wholly to required subjects intended to provide the student with a broad agricultural foundation. The last two years provide an opportunity for specialization in the chosen major field.

At the beginning of the junior year, at least, each student must select his major subject; this may be Agricultural Education, Agricultural Chemistry, or in one of the following departments of the College of Agriculture:

- I. Agricultural Economics
- II. Agricultural Engineering
- III. Agronomy
- IV. Animal Husbandry and Dairying
- V. Botany and Bacteriology
- VI. Entomology and Plant Pathology
- VII. Horticulture

THE CURRICULUM IN LANDSCAPE DESIGN

The curriculum in Landscape Design also extends over a period of four years, the courses required having been selected with the view of giving thorough fundamental and basic preparation, with as much practical problem work in the field of landscape design as possible.

CREDIT FOR PRACTICAL WORK

By previous arrangement with the head of a department and the Dean, students, during their course of study, may do practical work under competent supervision in any recognized agricultural pursuit, and upon returning to the College and rendering a satisfactory written report showing faithful service, will be entitled to one credit for each month of such work. Such credits may not total more than six in the four-year course.

CURRICULUM FOR FOUR-YEAR COURSE IN AGRICULTURE

Leading to the degree Bachelor of Science in Agriculture

First Semester		Second Semester	
Name of Course	Credit	Name of Course	Credit
Freshman Year			
Biology 101	5	Animal Husbandry 104.....	4
or Animal Husbandry 0104.....	4	or Biology 0101	5
Chemistry 105	4	Chemistry 106	5
English 101	3	English 102	3
Horticulture 101	3	Poultry Husbandry 102.....	3
Military Science 101	2	Military Science 102	2
Physical Education 101.....	1	Physical Education 102.....	1
	18 or 17		18 or 19
Sophomore Year			
Agricultural Economics 201	3	Agricultural Engineering 202	4
Botany 101 or Option (1).....	4	Botany 102	4
Chemistry 0262 or Option (2).....	5	Chemistry 0305 or Elective	5
Electives	4	Mathematics 204 (applied).....	3
Military Science 201	2	Military Science 202	2
	18		18
Junior and Senior Years			
Agronomy 301	5	Botany 302, Vet. Science 306 or Op- tion (4)	4
Bacteriology 301 or Option (3).....	4	English, Speech, Language, Psy- chology, Education or History....	3
English, Journalism, Speech, Lan- guage, Psychology, Education, or History	3	Entomology 302	4
Physics 111 and 115 or Elective.....	5	Electives	21
Electives	15		32
	32		

- Option (1) General Economics, Mathematics, or Physics
- Option (2) Chemistry, Engineering, Business Administration, Educational Psychology, or Education.
- Option (3) Chemistry, Engineering, Education, Business Administration or Mathematics.
- Option (4) Agricultural Bacteriology, Plant Pathology, Agricultural Engineering, Poultry Husbandry, Feeds and Feeding, or Agricultural Economics.

Of the electives, all except 18 semester hours are to be in technical agriculture, agricultural education, or agricultural chemistry. A minimum of 15 and a maximum of 30 semester hours, of courses numbered 200 or above, must be taken in one department for a major.

CURRICULUM FOR FOUR-YEAR COURSE IN LANDSCAPE DESIGN

Leading to the degree Bachelor of Science in Landscape Design

First Semester		Second Semester	
Name of Course	Credits	Name of Course	Credits
Freshman Year			
Botany 101	4	Architecture 112	1
Chemistry 105	4	Botany 102	4
English 101	3	Chemistry 106	5
Military Science 103.....	2	English 102	3
*Modern Language	3	Military Science 104	2
Physical Education 101	1	*Modern Language	3
	—	Physical Education 102	1
	17		—
			19
Sophomore Year			
Architecture 121	2	Architecture 122	2
Horticulture 101	3	Landscape Design 208.....	3
Landscape Design 207.....	3	Landscape Design 210.....	3
Military Science 203.....	2	Landscape Design 212.....	3
*Modern Language	3	Mathematics 085	3
Electives	4	Military Science 204.....	2
	—	*Modern Language	3
	17		—
			19
Junior Year			
Agronomy 301	5	Agricultural Engineering 304.....	3
English 201	3	Architecture 226	2
Geology 201	3	English 202	3
Landscape Design 309.....	3	Entomology 302	4
Landscape Design 313.....	3	Landscape Design 310.....	3
	—		—
	17		15
Senior Year			
Agricultural Engineering 301	3	Architecture 232	2
Architecture 227	2	Elective	2
Architecture 231	2	Entomology 406	3
Entomology 405	3	Landscape Design 306.....	3
Horticulture 411	3	Landscape Design 406.....	3
Landscape Design 405.....	3	Landscape Design 408.....	3
	—		—
	16		16

*French preferred

COURSES FOR SPECIAL STUDENTS

Students over eighteen years of age who cannot meet the entrance requirements of the University, may enter a four-months or one-year course. Such students may take not less than fourteen nor more than nineteen hours of work from the following list of courses. Those having a knowledge of the common school branches only should first select courses numbered below 100; those with high school or college training may select courses marked above 100. Each semester is as nearly as possible complete in itself.

First Semester

Name of Course	Subject	Hrs. Per Week
Agricultural Economics 201	Agricultural Economics	3
Agricultural Economics 303	Farm Records	3
Agricultural Engineering 21	Farm Machinery	3
Agricultural Engineering 301	Drainage and Irrigation	3
Agricultural Engineering 303	Farm Shop	3
Agricultural Engineering 401	Farm Buildings	3
Agronomy 21	Elements of Agronomy	2
Agronomy 201	Farm Crops	3
Animal Husbandry 21	Elements of Animal Husbandry	3
Animal Husbandry 203	Beef Production	3
Chemistry 105	General Chemistry	4
Dairying 201	Farm Dairying	3
Entomology 21	Farm, Garden and Orchard Insects	3
Entomology 405	Insecticides and Fungicides	3
Horticulture 21	Introduction to Horticulture	3
Horticulture 101	Elements of Horticulture	3
Horticulture 303	Floriculture	3
Horticulture 305	Citrus Culture	3
Horticulture 307	Subtropical Fruits	3
Plant Pathology 301	General Pathology	4
Plant Pathology 303	Diseases of Florida Crops	3
Poultry Husbandry 21	Poultry Essentials	3
Poultry Husbandry 201	Commercial Poultry	3

Courses with odd numbers, under 100, in other colleges of the University.

Second Semester

Agricultural Economics 54	Farm Management	3
Agricultural Economics 202	Agricultural Resources	3
Agricultural Engineering 202	Farm Machinery	4
Agricultural Engineering 302	Farm Motors	3
Agricultural Engineering 402	Farm Concrete	2
Agronomy 22	Elements of Agronomy	2
Agronomy 304	Forage Crops	3
Animal Husbandry 104	Types and Breeds of Animals	4
Animal Husbandry 204	Swine Production	3
Chemistry 106	General Chemistry	5
Dairying 22	Elements of Dairying	3
Dairying 202	Dairy Management	3
Entomology 302	Economic Entomology	4
Entomology 406	Fungicides and Insecticides	3
Horticulture 22	Agricultural Botany	3
Horticulture 204	Pruning	3
Horticulture 206	Trucking	3
Horticulture 306	Citrus Harvesting, Marketing, etc.	3
Horticulture 308	Deciduous Fruits	3
Horticulture 314	Principles of Fruit Production	3
Landscape Design 210	History of Landscape Design	3
Landscape Design 212	Plant Materials	3
Plant Pathology 22	Diseases and Insects of Citrus	3
Plant Pathology 304	Diseases of Florida Crops	3
Poultry Husbandry 102	Farm Poultry	3
Poultry Husbandry 202	Commercial Poultry	3
Veterinary Science 302	Veterinary Elements	2
Veterinary Science 402	Poultry Diseases	2

Courses with even numbers, under 100, in other colleges of the University.

DEPARTMENTS OF INSTRUCTION

Subjects with odd numbers are offered in the first semester; subjects with even numbers are offered in the second semester unless the number begins with 0, in which case the reverse is true.

The number of hours listed is the number of hours which the class meets per week.

The number of credits is the number of semester credit hours earned by each student who receives a passing grade (A, B, C, or D) when the subject is completed. Unless specifically stated, credit may be obtained for one semester of year courses.

Subjects numbered 200 or above are not open to freshmen; subjects numbered 300 or above are not open to sophomores; subjects numbered 400 or above are not open to juniors; subjects numbered 500 or above are for graduate students.

The abbreviations used are wherever possible the first and last letter of the first word of the department name. Occasionally, a third central letter is demanded to distinguish between departments where first and last letters are identical.

AGRICULTURAL CHEMISTRY

Cy. 105.—General Chemistry. 3 hours and 3 hours laboratory. 4 credits. No credit toward a degree will be allowed until credit in Cy. 106 is earned. BLACK.

The fundamental laws and theories of chemistry and the preparation and properties of the common non-metallic elements and their compounds. Designed especially for students of agriculture.

Laboratory fee: \$5.

Required of first-year agricultural students.

Cy. 106.—General Chemistry, continued, and Qualitative Analysis. 3 hours and 6 hours laboratory. 5 credits. BLACK, JACKSON.

A study of the metallic elements and their compounds and the essentials of qualitative analysis. Designed especially for students of agriculture.

Laboratory fee: \$5.

Required of first-year agricultural students.

Cy. 0203.—Qualitative Analysis. 2 hours and 6 hours laboratory. 4 credits. JACKSON.

A systematic study of the metals and their chemical reactions and theoretical considerations of qualitative analysis. Practice in the separation and identification of the common metals and acid radicals.

Prerequisite: Cy. 0232.

Laboratory fee: \$5.

Required of second-year students majoring in Agricultural Chemistry.

Cy. 0232.—Elementary Physical Chemistry. 3 hours and 3 hours laboratory. 4 credits. JACKSON.

A study of the gaseous, liquid, and solid states of matter, the properties of solutions, and colloids.

Prerequisite: General Chemistry.

Laboratory fee: \$5.

Required of second-year students majoring in Agricultural Chemistry.

Cy. 0262.—Organic Chemistry. 3 hours and 6 hours laboratory. 5 credits. POLLARD.

A brief course embracing the more important aliphatic and aromatic compounds, designed chiefly for students in applied biological fields. Suitable for those pre-medical students who desire only 5 hours of organic chemistry.

Prerequisite: General Chemistry.

Laboratory fee: \$5.

Required of students in Horticulture, Agronomy, Animal Husbandry, Botany and Bacteriology, and Entomology and Plant Pathology groups.

Cy. 305 or 0305.—Quantitative Analysis. 2 hours and 9 hours laboratory. 5 credits. BLACK.

The fundamental principles of gravimetric and volumetric analysis. The laboratory work may be varied somewhat to fit the needs of individual students.

Prerequisite: Cy. 106 or 0203.

Laboratory fee: \$5.

Required of third-year students majoring in Agricultural Chemistry.

Cy. 361-362.—Organic Chemistry. 3 hours and 6 hours laboratory, or its equivalent. 10 credits. No credit toward a degree will be allowed until the entire 10 credits have been earned. LEIGH.

A study of the preparation and properties of various aliphatic and aromatic compounds.

Prerequisite: Cy. 203 or Cy. 0232.

Laboratory fee: \$5 per semester.

Required of third-year students majoring in Agricultural Chemistry.

Cy. 432.—Agricultural Analysis. 2 hours and 9 hours laboratory. 5 credits. BLACK.

The quantitative analysis of agricultural products. The laboratory work may be varied somewhat to fit the needs of individual students.

Prerequisites: Cy. 305; Cy. 361-362.

Laboratory fee: \$5.

Required of fourth-year students majoring in Agricultural Chemistry.

GRADUATE COURSES

Cy. 501.—Organic Preparations

Cy. 504.—Inorganic Preparations

Cy. 505.—Organic Nitrogen Compounds

Cy. 506.—Special Chapters in Organic Chemistry

Cy. 508.—Synthesis and Structure of Organic Compounds

Cy. 509.—Electrochemistry

Cy. 510.—The Phase Rule and Its Applications

Cy. 513.—Colloid Chemistry

Cy. 516.—Chemistry of the Rare Elements

Cy. 519.—Atomic Structure

Cy. 525-526.—Chemistry of the Terpenes

Cy. 531.—Advanced Qualitative Analysis

Cy. 533.—Advanced Quantitative Analysis

Cy. 537.—Qualitative Organic Chemistry

Cy. 538.—Quantitative Organic Chemistry

Cy. 542.—Catalysis

Cy. 551-552.—Chemical Research

AGRICULTURAL ECONOMICS

The Department of Agricultural Economics seeks to present to students the nature of economic forces as they affect the value of agricultural commodities. Courses are offered in agricultural economics, farm management, marketing, statistics, and prices. Not only students who expect to engage in farming or marketing agricultural products, but also county agents, Smith-Hughes instructors, country bankers, and others whose business is closely related to or partially dependent upon farming, will find the courses in this Department useful.

As. 54.—Farm Management. 3 hours. No credit. HOWARD.

An elementary course in the organization of the farm business, laying out of fields, location of buildings, farm accounting and important factors affecting profits.

As. 201.—Agricultural Economics. 2 hours and 2 hours laboratory. 3 credits. HOWARD.

The fundamental principles of economics in their relation to agriculture.

Required of second-year agricultural students.

As. 202.—Agricultural Resources. 2 hours and 2 hours laboratory. 3 credits. WANN.

Potentialities and limitations of agricultural production in the various regions of the United States and the world. Development of surplus and deficit agricultural areas.

As. 303.—Farm Records. 2 hours and 2 hours laboratory. 3 credits. WANN.

Methods and practice of making and keeping farm inventories, feed records, and crop records.

Laboratory fee: \$2.

As. 306.—Farm Management. 2 hours and 2 hours laboratory. 3 credits. TURLINGTON.

The factors of production: systems of farming, their distribution and adaptation: problems of labor, machinery, layout of farms, and rotation systems.

Prerequisite: As. 201.

Laboratory fee: \$2.

As. 308.—Marketing. 2 hours and 2 hours laboratory. 3 credits. HAMILTON.

Marketing and distributing farm products; marketing organizations and laws governing them; the relation of foreign trade and general business conditions to the farmer's market.

Laboratory fee: \$2.

As. 311.—Rural Law. 2 hours. 2 credits. TURLINGTON.

Classification of farm property: study of farm boundaries, fences, stock laws, rents, contracts, deeds, abstracts, mortgages, taxes, and laws governing shipping farm products.

As. 403.—Advanced Farm Management. 2 hours and 2 hours laboratory. 3 credits. TURLINGTON.

Laying out and locating various buildings, lots, fields and crops; cropping systems; farm surveys and a study of successful Florida farms.

Two-day field trip, estimated at a cost of \$10, paid at time trip is made.

Prerequisite: As. 306.

Laboratory fee: \$1.

As. 405.—Agricultural Prices. 2 hours and 2 hours laboratory. 3 credits. HAMILTON.

Prices of farm products and the factors affecting them.

Laboratory fee: \$1.

As. 408.—Marketing Fruits and Vegetables. 2 hours and 2 hours laboratory. 3 credits. HAMILTON.

Marketing of citrus, tomatoes, beans, potatoes, and other Florida products.
Two-day field trip, estimated at a cost of \$10, paid at time trip is made.
Laboratory fee: \$2.

As. 409.—Cooperative Marketing. 2 hours and 2 hours laboratory. 3 credits. HAMILTON.

Cooperative buying and selling organizations, their successes and failures; methods of organization, financing and business management.

Two-day field trip, estimated at a cost of \$10, paid at time trip is made.
Laboratory fee: \$2.

As. 410.—Statistics. 2 hours and 2 hours laboratory. 3 credits. HOWARD.

The principles involved in the collection, tabulation, and interpretation of agricultural statistics.

As. 412.—Land Economics. 2 hours and 2 hours laboratory. 3 credits. HAMILTON, WANN.

Rural taxation; colonization and adjustments of rural laws to their best uses. This course is identical with As. 508, less one problem.

GRADUATE COURSES

As. 501-502.—Agricultural Economics Seminar

As. 505-506.—Research Problems—Farm Management

As. 508.—Land Economics

As. 509.—Citrus Grove Organization and Management

As. 510.—Organization and Management of Truck Farms

As. 511-512.—Research Problems—Marketing Agricultural Products

As. 514.—Advanced Marketing of Agricultural Products

AGRICULTURAL ENGINEERING

The Department of Agricultural Engineering offers courses covering the principles of engineering as applied to various phases of agriculture, including such subjects as buildings, concrete construction, drainage, farm machinery, farm shop work, farm water and light systems, irrigation, surveying and tractors.

The demand for agricultural engineers is steadily increasing, due to the increased amount of power and machinery now being used in agricultural production. Graduates in agricultural engineering enter such fields of work as agricultural production, the teaching of farm mechanics in schools and colleges, drainage and irrigation work, and various positions with equipment and machinery manufacturers.

Ag. 21.—Farm Machinery. 1 hour and 4 hours laboratory. No credit. ROGERS.

Care, construction, operation, and selection of farm machinery.

Laboratory fee: \$1.

Ag. 104.—Wood Work. 3 hours laboratory. 1 credit. ESHLEMAN.

Practice in adjustment, care, and use of wood working tools, exercises in bench work, farm equipment and farm building construction.

Laboratory fee: \$1.

Ag. 202 or 0202.—Farm Machinery. 2 hours and 4 hours laboratory. 4 credits. ROGERS.

Construction, operation, and selection of harvesting, seeding, spraying and tilling machinery.

Laboratory fee: \$1.

Ag. 204.—Agricultural Organization. 1 hour. 1 credit. ROGERS.

The organization and proceedings of agricultural societies.

Ag. 301.—Drainage and Irrigation. 2 hours and 2 hours laboratory. 3 credits. ROGERS.

Farm surveying, drainage and irrigation systems; field practice in surveying and designing systems.

Ag. 302.—Farm Motors. 2 hours and 2 hours laboratory. 3 credits. ROGERS.

The sources of power on the farm: automobile, tractor and stationary gasoline engines, electric motors, and windmills.

Laboratory fee: \$2.

Ag. 303.—Farm Shop. 1 hour and 4 hours laboratory. 3 credits. ROGERS.

Belt lacing, carpentry, concrete construction, soldering, and other farm shop operations. Specially useful for students intending to teach agricultural engineering in vocational schools.

Ag. 304.—Landscape Construction. 2 hours and 2 hours laboratory. 3 credits. ROGERS.

Theory and practical design of special details, such as fountains, retaining walls, pools and walks; problems in plane and topographical surveying.

Ag. 401.—Farm Buildings. 2 hours and 2 hours laboratory. 3 credits. ROGERS.

Construction, cost, management, sanitation and ventilation of farm buildings; laboratory exercises in designing and estimating costs.

Ag. 402.—Farm Concrete. 1 hour and 2 hours laboratory. 2 credits. ROGERS.

Selection of materials; curing, mixing, placing, reinforcing, testing and water-proofing concrete.

Ag. 403-404.—Agricultural Engineering Investigations. 2 hours. 4 credits. ROGERS.

Reports on investigational work as found in recent literature.

Required of all seniors majoring in Agricultural Engineering.

GRADUATE COURSES

Ag. 501-502.—Agricultural Engineering Seminar**Ag. 503-504.—Research Work**

AGRONOMY

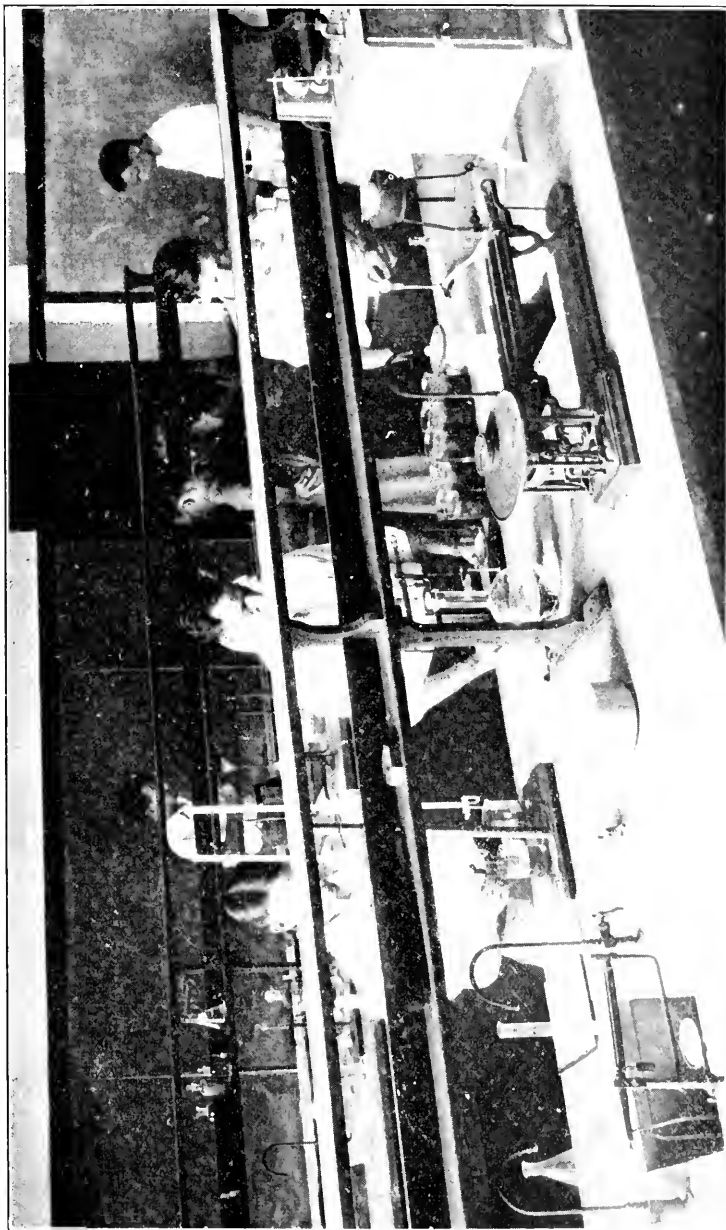
The courses in the Department of Agronomy are intended to qualify students for teaching in high schools and colleges, for agricultural extension work, farming, and research work in experiment stations and Federal departments of agriculture. Students may major in either farm crops or soils.

Students majoring in Agronomy will not take any option. They take courses indicated in the curriculum only.

Agronomy students will be required to take Quantitative Chemistry in the sophomore or junior year. They may elect Mathematics, Chemistry, or Biology instead of Physics 111 and 115.

Ag. 21-22.—Elements of Agronomy. 2 hours. No credit. BRYAN.

A practical course in farm crops and soils, designed to meet the needs of special students.



LABORATORY CLASS IN SOILS

Ay. 201.—Farm Crops. 2 hours and 2 hours laboratory. 3 credits. SENN.

A general survey of the leading farm crops, including characteristics, adaptations, fertility requirements, cultural practices, rotation systems, and uses of the more important field crops.

Laboratory fee: \$1.

Ay. 301.—Soils. 3 hours and 4 hours laboratory. 5 credits. BRYAN.

The nature and properties of soils as related to fertility and crop production.

Prerequisite: **Cy. 105-106.**

Laboratory fee: \$2.

Required of all juniors in Agriculture.

Ay. 302.—Fertilizers and Manures. 2 hours and 2 hours laboratory. 3 credits. BRYAN.

The composition, nature, and source of fertilizer materials; their influence on crops and soils; fertilizer requirements for different crops; calculating fertilizer formula.

Prerequisite: **Ay. 301.**

Laboratory fee: \$1.

Ay. 304.—Forage Crops. 3 hours. 3 credits. SENN.

Plants that produce feed for livestock, including grasses and legumes for hay and grazing purposes; their characteristics, composition, adaptations, and cultural practices. Methods of establishing pastures are considered.

Ay. 305.—Crop Judging. 2 hours. 2 credits. SENN.

Designed to fit one to judge competitive farm crop displays. Specially adapted to students preparing for Smith-Hughes and county agent work. Practice in identification and judging the principal farm crops. Arranging of exhibits, premium lists, fairs, and judging teams are discussed.

Prerequisite: **Ay. 201.**

Laboratory fee: \$1.

Ay. 309.—Principles of Breeding. 3 hours. 3 credits. SENN.

An elementary course dealing with the basic principles of heredity, variation and selection, and the application of these principles to plant and animal improvement.

Ay. 311.—Laboratory Problems in Genetics. 2 hours laboratory. 1 credit. SENN.

Laboratory methods of applying genetic principles, with breeding experiments illustrating the laws of inheritance. Designed to be taken in conjunction with **Ay. 309.**

Laboratory fee: \$1.

Ay. 402.—Plant Breeding. 3 hours. 3 credits. SENN.

The fundamental principles of crop improvement, including breeding, selection, and experimental methods. Intended to give the student a working knowledge of genetic principles and to acquaint him with modern methods of breeding and the production and distribution of pure seeds.

Prerequisite: **Ay. 309.**

Ay. 405.—Soil Fertility. 3 hours. 3 credits. BRYAN.

The factors involved in crop production; source and loss of plant nutrients; mineral cycles in nature; green manuring; methods and results obtained by laboratory and field study.

Prerequisite: **Ay. 301.**

Ay. 407-0407.—Special and Cover Crops. 2 hours. 2 credits. SENN.

A study of cotton and other fiber crops, tobacco, sweet potato, and sugar crops; their characteristics, adaptations, cultural practices, improvement, marketing and manufacturing processes. Consideration given to plants suited for cover crops in rotation systems of the South.

Prerequisite: **Ay. 201.**

GRADUATE COURSES

- Ay. 500.—Plant Breeding
 Ay. 501-502.—Seminar
 Ay. 503.—Chemistry of Plant Growth
 Ay. 504.—Soil Development and Classification
 Ay. 505-506.—Special Problems in Soils and Crops
 Ay. 507.—Soils of Florida
 Ay. 508.—Methods of Crop Investigation
 Ay. 509.—Biometrical Methods
 Ay. 510.—Soil Biology
 Ay. 511.—Soil Analysis
 Ay. 513.—Soil Utilization
 Ay. 514.—Advanced Soils

ANIMAL HUSBANDRY AND DAIRYING

ANIMAL HUSBANDRY

Animal Husbandry includes subjects relating to the domestic animals, their history, classification and judging; breeding, selection and improvement; feeding, care and management; the production and marketing of beef, pork and other animal products. Instruction is given in the general principles applying to all parts of America as well as in the special principles applying to Florida and the Southeast.

AL. 21.—Elements of Animal Husbandry. 3 hours. No credit toward degree. WILLOUGHBY.

Breeds of farm animals; principles of feeding, breeding and management.
 For students in four-months course.

AL. 104 or 0104.—Types and Breeds of Animals. 3 hours and 2 hours laboratory. 4 credits. WILLOUGHBY, MARTIN.

Types, breeds, and market classes of horses, cattle, sheep and swine; score-card and comparative judging; principles of animal feeding.

Required of all freshmen in Agriculture.

AL. 203.—Beef Production. 3 hours. 3 credits. WILLOUGHBY.

Selection, feeding, and management of beef cattle; finishing and marketing. Brief study of mutton production.

Prerequisite: AL. 104.

AL. 204.—Swine Production. 3 hours. 3 credits. MARTIN.

Selection, feeding, and management of hogs; forage crops and grazing; nitrogenous supplements; disease and parasite control; slaughtering; marketing.

Prerequisite: AL. 104.

AL. 205-206.—Advanced Stock Judging. 1 hour and 2 hours laboratory. 4 credits. WILLOUGHBY.

Special training in live stock judging, show ring methods, and contests at fairs. Fee: travel expense on judging trips, as needed.

Prerequisite: AL. 104.

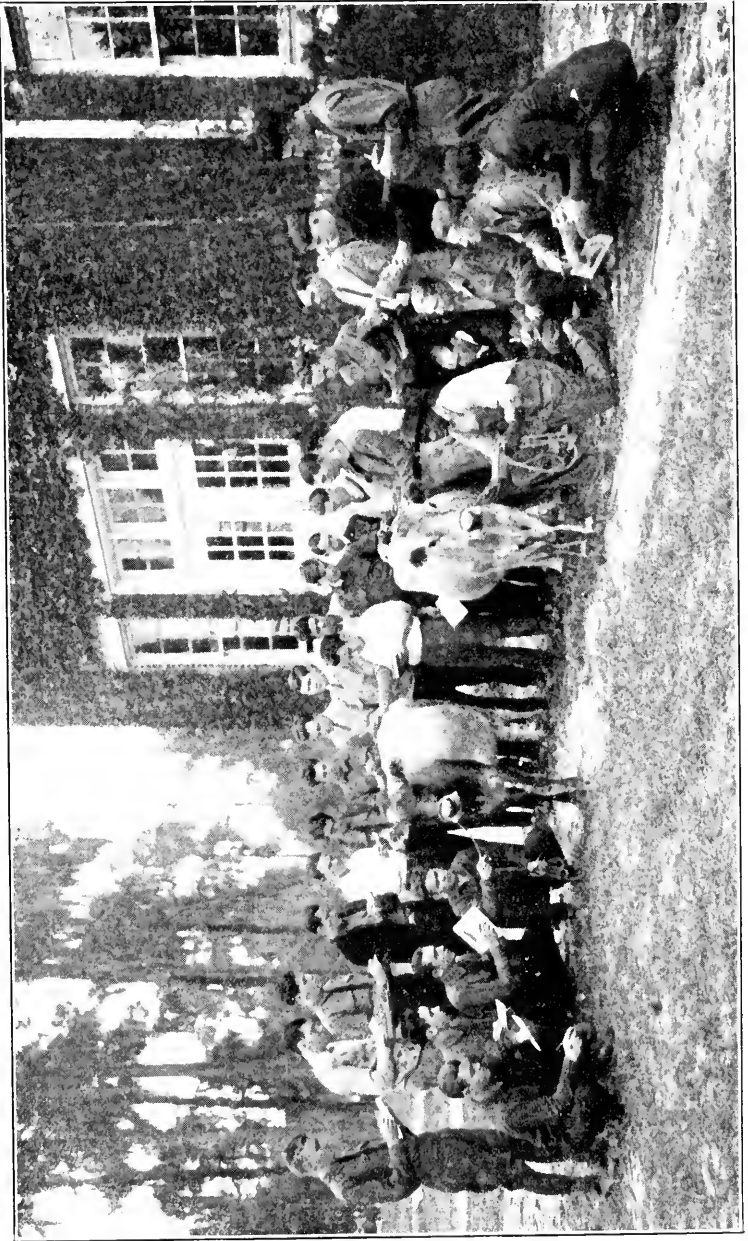
AL. 207.—Animal Breeding. 2 hours. 2 credits. WILLOUGHBY.

Principles of breeding applied to animals; pedigree and record work; foundation and management of a breeding enterprise.

AL. 301 or 0301.—Breed History. 2 hours. 2 credits. WILLOUGHBY.

History of live stock breeds; pedigree studies and registration methods.

Prerequisite: AL. 104.



CLASS IN STOCK JUDGING

- Al. 303 or 0303.—Meat Products.** 2 hours. 2 credits. WILLOUGHBY.
Farm slaughtering and packing house methods; curing, processing, and marketing of meats and special products.
- Al. 305.—Advanced Animal Feeding.** 2 hours. 2 credits. WILLOUGHBY, MARTIN.
Feeds, feeding and management of farm live stock.
Prerequisite: Al. 104.
- Al. 306.—Advanced Animal Feeding.** 2 hours. 2 credits. WILLOUGHBY, MARTIN.
Continuation of Al. 305.
- Al. 401-402.—Seminar.** 2 or 3 hours. Credits to be arranged. WILLOUGHBY, MARTIN.
History of live stock industry in America; special dairy and live stock topics; reviews of recent research. For seniors only.

GRADUATE COURSES

- Al. 501-502.—Animal Production**
Al. 503-504.—Animal Nutrition
Al. 505-506.—Live Stock Records

DAIRYING

Dairying includes the production of milk, its composition and testing; the sanitary handling and sale of market milk; the manufacture of butter, cheese and ice cream; factory and milk plant management and accounting.

- Dy. 22.—Elements of Dairying.** 2 hours and 2 hours laboratory. No credit toward degree. MARTIN.

The composition and handling of milk and milk products; composition and testing of dairy products.

Laboratory fee: \$1.

- Dy. 201.—Farm Dairying.** 2 hours and 2 hours laboratory. 3 credits. MARTIN.

The secretion and composition of milk; testing dairy products; farm butter making; ice cream and soft cheese making.

Laboratory fee: \$2.

- Dy. 202.—Dairy Management.** 3 hours. 3 credits. MARTIN.

Selection, feeding, and management of the dairy herd; herd improvement; barns; equipment; marketing.

- Dy. 301.—Buttermaking.** 2 hours and 2 hours laboratory. 3 credits. MARTIN.

Buying and testing cream; pasteurization; cream ripening and butter making. Laboratory fee: \$3.

- Dy. 302.—Market Milk.** 3 hours. 3 credits. MARTIN.

Methods of producing clean milk; operation of milk plants; sanitary supervision of milk supply.

- Dy. 303 or 0303.—Creamery Management.** 3 hours. 3 credits. MARTIN.

Creamery construction; sewage disposal; refrigeration; creamery calculation; bookkeeping; marketing.

- Dy. 306.—Cheese Making.** 2 hours and 2 hours laboratory. 3 credits. MARTIN.

Selection of milk for cheese making. Making hard cheese. Soft cheese making. Laboratory fee: \$3.00.

Dy. 307.—Ice Cream Making. 2 hours and 2 hours laboratory. 3 credits. MARTIN.

Ingredients of the ice cream mix. Preparation of the mix. Freezing and hardening ice cream.

Laboratory fee: \$3.00.

BOTANY AND BACTERIOLOGY

Botany 101 and 102 or their equivalents are prerequisite to all courses in this department; Bacteriology 301 or its equivalent is prerequisite to all courses in Bacteriology except Bcy. 0308.

BOTANY

Bty. 101.—General Botany. 2 hours and 4 hours laboratory. 4 credits. CODY, CARROLL.

Structure and life histories of important algae, fungi, mosses and ferns.

Laboratory fee: \$5.

Bty. 102.—General Botany. 2 hours and 4 hours laboratory. 4 credits. CODY, CARROLL.

Structure, environment, and principles of identification of seed plants.

Laboratory fee: \$5.

Bty. 104.—Economic Botany. 2 hours, 2 hours laboratory and 1 recitation period. 5 credits. CODY.

A non-technical course for those not specializing in the plant sciences, who desire to know something of the structure and functioning of some of the economic plants and how to identify some of the ferns and flowering plants of this region.

Laboratory fee: \$5.

Bty. 210.—Taxonomy. 1 hour and 6 hours laboratory. 4 or 5 credits. CODY.

Identification of common seed plants and ferns of the Gainesville region. (An extra hour's credit may be earned by assignment of special field problem.)

Laboratory fee: \$5.

Bty. 302 or 0302.—Plant Physiology. 2 hours and 4 hours laboratory. 4 credits. CODY.

Physiological processes of plants with respect to absorption, assimilation, transpiration, metabolism, respiration and growth.

Desired prerequisites: Cy. 0262, or equivalents; Ay. 301; Physics 111 and 115, or equivalent.

Laboratory fee: \$5.

Bty. 308.—Taxonomy. 1 hour and 6 hours laboratory. 4 credits. CODY.

Identification of common seed plants and ferns of the Gainesville region. Field excursions.

Laboratory fee: \$5.

Bty. 310.—Advanced Taxonomy. 1 hour and 6 hours laboratory. 4 credits. CODY.

A critical study of a plant family or genus. Field work.

Prerequisite: Bty. 210, or equivalent.

Laboratory fee: \$5.

Bty. 320.—General Morphology of Seed Plants. 1 hour and 6 hours laboratory. 4 credits. CODY.

Structure and life histories of certain gymnosperms and angiosperms; process of ovule fertilization.

Laboratory fee: \$5.

Bty. 331.—Plant Histology. 1 hour and 6 hours laboratory. 4 or 5 credits. CODY.

Methods and practice in killing, fixing, sectioning, and staining of plant tissues and organs. (An extra hour's credit may be earned on assignment of a special problem.)

Desired prerequisites: **Bty. 302; Cy. 0262.**

Laboratory fee: \$5.

Bty. 332.—Plant Anatomy. 1 hour and 6 hours laboratory. 4 or 5 credits. CODY.

Origin, structure and function of principal tissues and organs of plants. (An extra hour's credit may be earned on assignment of a special problem.)

Desired prerequisites: **Bty. 302, 331; Cy. 0262; Physics 111 and 115.**

Laboratory fee: \$5.

Bty. 401 or 0401.—Plant Ecology. 1 hour and 6 hours laboratory. 4 credits. CODY.

The relation of plants to their environment with special reference to plant associations, plant successions and modes and effects of plant migration; plant surveys.

Prerequisites: **Bty. 210** or equivalent; **Ay. 301**; some knowledge of Biology, Chemistry, and Geology.

Laboratory fee: \$5.

Bty. 404 or 0404.—Advanced Plant Physiology. 1 hour and 6 hours laboratory. 4 credits. CODY.

Special studies in digestion, assimilation, nutrition, respiration and growth. Preliminary course to research in plant physiology.

Prerequisite: **Bty. 302.**

Laboratory fee: \$5.

GRADUATE COURSES

Bty. 500.—Seminar

Bty. 501-502.—Problems in Taxonomy

Bty. 503-504.—Problems in Plant Physiology

Bty. 505.—Problems in Plant Histology

Bty. 508.—Problems in Plant Anatomy

BACTERIOLOGY

Bcy. 301.—General Bacteriology. 2 hours and 4 hours laboratory. 4 credits. CARROLL.

Morphology, physiology, and cultivation of bacteria and related micro-organisms.

Prerequisites: **Bty. 101; Bly. 101; Cy. 0262, or equivalents.**

Laboratory fee: \$5.

Bcy. 302.—Agricultural Bacteriology. 2 hours and 4 hours laboratory. 4 credits. CARROLL.

Bacteria and associated micro-organisms in relation to water, milk, soil, silage and farm problems.

Prerequisite: **Bcy. 301.**

Laboratory fee: \$5.

Bcy. 304.—Pathogenic Bacteriology. 2 hours and 4 hours laboratory. 4 credits. CARROLL.

Recognition, culture and special laboratory technique of handling pathogens and viruses. Theories and principles of immunity and infection.

Prerequisite: **Bcy. 301.**

Laboratory fee: \$5.

Bcy. 306.—Bacteriology of Foods. 2 hours and 4 hours laboratory. 4 credits. CARROLL.

Relation of bacteria, yeasts, molds and other micro-organisms commonly found in foods.

Prerequisite: **Bcy. 301.**

Laboratory fee: \$5.

Bcy. 0308.—Sanitary Laboratory Practice. 1 hour and 4 hours laboratory. 3 credits. CARROLL.

A course designed primarily for sanitary engineering students and deals with problems in sewage and public sanitation. Desirable antecedents: some knowledge of biology, chemistry, and physics.

Laboratory fee: \$5.

Bcy. 401.—Clinical Bacteriology. Hours to be arranged. 4 credits. CARROLL.

Laboratory practice on special problems preparing for technical expert in field of biological activities of bacteria and related micro-organisms. Animal experimentation and immunology upon pathogens. Work assigned to specific organisms. A prerequisite to research in bacteriology.

Prerequisite: **Bcy. 304.**

Laboratory fee: \$5.

GRADUATE COURSES

Bcy. 501-502.—Problems in Soil Bacteriology

Bcy. 503-504.—Problems in Dairy Bacteriology

Bcy. 505-506.—Problems in Pathogenic Bacteriology

Bcy. 507-508.—Problems in Water Bacteriology

ENTOMOLOGY AND PLANT PATHOLOGY

The purpose of the courses offered in Entomology and Plant Pathology are as follows: to give a student the fundamental knowledge concerning entomology and plant pathology, a knowledge of value in agricultural work; to give certain students specialized work that will fit them for positions as county agents, and teachers in high schools, colleges, and universities; to train specialists for state experiment station or Federal departmental work in these fields.

ENTOMOLOGY

Ey. 21.—Farm, Garden and Orchard Insects. 2 hours and 2 hours laboratory. No credit. CREIGHTON.

A general survey of some of the economic insects of Florida with reference to their distribution, life history, injury and control on the principal agricultural crops of the state.

Laboratory fee: \$1.

Ey. 101.—Introduction to the Study of Economic Entomology. 2 hours and 2 hours laboratory. 3 credits. CREIGHTON.

A survey of the principles of economic entomology that will prepare students for **Ey. 302.** A study of the structure, life histories, and control of the more important insects will be made.

Laboratory fee: \$1.50.

Ey. 302.—Economic Entomology. 2 hours and 4 hours laboratory. 4 credits. CREIGHTON, DICKEY.

An introduction to applied entomology, based on the structure, classification, life histories; recognition, and control of the injurious insects of Florida.

Laboratory fee: \$2.

Required of all students in the College of Agriculture.

Ey. 303-304.—Advanced Economic Entomology. 1 hour and 6 hours laboratory. 8 credits. CREIGHTON.

Field and laboratory problem work and insectary work in the rearing of some of the more common Florida insects. Study of natural parasites and the special technique required by professional work in this line.

Prerequisite: **Ey. 302.**

Laboratory fee: \$1.50.

Ey. 401.—Taxonomy. Hours and credit to be arranged. CREIGHTON.

The collection, study and classification of local economic insects, with special emphasis on some one group.

Prerequisite: **Ey. 302.**

Ey. 402.—Fruit Insects. 2 hours and 2 hours laboratory. 3 credits. CREIGHTON.

A study of pest's encountered in deciduous, tropical and citrus fruits, with detailed study of representative life histories and measures adapted to their control.

Prerequisite: **Ey. 302.**

Laboratory fee: \$1.

Ey. 403.—Garden and Greenhouse Pests. 2 hours and 2 hours laboratory. 3 credits. CREIGHTON.

The study of insects encountered in the home, commercial garden, and greenhouse. A detailed study of life history and specific control measures adapted to these conditions.

Prerequisite: **Ey. 302.**

Laboratory fee: \$1.

Ey. 405.—Insecticides and Fungicides. 1 hour and 4 hours laboratory. 3 credits. CREIGHTON, DICKEY.

Origin and history of insecticides and fungicides; systematic survey of mixtures now used and their chemical and physical reactions. Special emphasis on soaps, oils, coppers, etc. Class, laboratory, and field work.

Laboratory fee: \$2.

Ey. 406.—Insecticides and Fungicides. 1 hour and 4 hours laboratory. 3 credits. CREIGHTON, DICKEY.

A special study of lime sulphur, arsenates, dusts, etc. Practical problems that apply to Florida and the southeast. Class, laboratory, and field work.

Laboratory fee: \$2.

Ey. 407-408.—Advanced Insect Morphology. Hours and credit to be arranged. CREIGHTON.

Ey. 409-410.—Research and Thesis Writing. Hours and credit to be arranged. CREIGHTON.

Designed primarily to help students in writing their theses. Required of all students majoring in Entomology. Open to all graduate students.

GRADUATE COURSES

Ey. 501-502.—Methods of Research in Entomology

Ey. 503-504.—Problems in Entomology

Ey. 505-506.—Advanced Insect Histology

- Ey. 507-508.—Advanced Insect Taxonomy
 Ey. 509-510.—Advanced Insect Embryology
 Ey. 511-512.—Thesis Research

PLANT PATHOLOGY

Pt. 22.—Diseases and Insects of Citrus. 2 hours and 2 hours laboratory. No credit. DICKEY.

The important physiological and fungous diseases, with a survey of the major insects and methods of control.

Laboratory fee: \$1.

Pt. 301.—General Pathology. 2 hours and 4 hours laboratory. 4 credits. DICKEY, CREIGHTON.

A study of the principal causal agents that produce disease in plants. Diagnosis and treatment of plant diseases.

Laboratory fee: \$2.

Pt. 303.—Diseases of Florida Crops. 1 hour and 4 hours laboratory. 3 credits. DICKEY.

Practical methods of combatting fungous and bacterial diseases of Florida crops. Signs of infection, diagnosis, means of transmission, and methods of control. A study of citrus, cotton, grape, and certain vegetable diseases, etc.

Prerequisite: Pt. 301.

Laboratory fee: \$1.50.

Pt. 304.—Diseases of Florida Crops. 1 hour and 4 hours laboratory. 3 credits. DICKEY.

A survey of the diseases in subtropical and ornamental plants and in certain vegetables.

Prerequisite: Pt. 301.

Laboratory fee: \$1.50.

Pt. 401-402.—Laboratory Technique in Plant Pathology. 1 hour and 6 hours laboratory. 8 credits. DICKEY.

Preparation of culture media; isolation, cultivation and physiological study of plant pathogens; inoculation of host plants; relation to disease and the preparation of histological material.

Laboratory fee: \$2.50.

Pt. 403-404.—Mycology. 2 hours and 2 hours laboratory. 6 credits. DICKEY.

Detailed study of fungi in reference to origin, systematic relationships, cytology, and economic bearing on plant disease work. Collection and classification of local fungi.

Prerequisite: Pt. 301 or its equivalent.

GRADUATE COURSES

Pt. 501-502.—Methods of Research in Plant Pathology

Pt. 503-504.—Problems in Plant Pathology

Pt. 505-506.—Advanced Mycology

HORTICULTURE

The general subject of horticulture is divided into the tree fruits, vine and bush fruits, floriculture, vegetable growing and forestry.

A number of courses relate to more than one of these subjects and are therefore grouped here.

The large variety of plants growing in Florida's sub-tropical climate, the peculiar problems involved in their growth and development, and the accomplishments of those who have given time and labor to the solution of those problems offer inviting fields for study and experimentation.

He. 21.—Introduction to Horticulture. 2 hours and 2 hours laboratory. No credit. ABBOTT.

The fundamental principles of horticulture; practice in the culture, propagation, pruning, and training of the important fruit and ornamental plants of Florida.

He. 22.—Agricultural Botany. 2 hours and 2 hours laboratory. No credit. JUAN.

The relationship, habits, characteristics and environmental relations of the important crop plants, with laboratory study of principal types.

He. 101.—Elements of Horticulture. 2 hours and 2 hours laboratory. 3 credits. ABBOTT.

The fundamental activities of plant life with reference to the growth of orchard and garden crops. A study of propagation by budding, grafting, cuttings, seed selection, transplanting, pruning, spraying, frost protection, etc.

Laboratory fee: \$1.

He. 204.—Pruning. 2 hours and 2 hours laboratory. 3 credits. FLOYD.

Principles of pruning and training; the physiological principles involved; practice in pruning and training fruit and ornamental plants.

Laboratory fee: \$1.

He. 206.—Trucking. 2 hours and 2 hours laboratory. 3 credits. ABBOTT.

Origin, relationship and classification of different truck crops; varieties, cultural methods in different sections, fertilizing, irrigating, and harvesting. Planning the home garden.

Laboratory fee: \$1.

He. 303.—Floriculture. 2 hours and 2 hours laboratory. 3 credits. FLOYD.

The growing of flowers upon the home grounds; pot plants; greenhouse crops and their cultural requirements, including ventilation, watering and heating.

Prerequisite: He. 101.

Laboratory fee: \$1.

He. 304.—Commercial Floriculture. 1 hour and 4 hours laboratory. 3 credits. FLOYD.

A study of commercial flower crops grown either in the open, under lath, or in greenhouse. Methods of packing and marketing will receive attention.

Prerequisite: He. 101 and 303.

Laboratory fee: \$2.

He. 305.—Citrus Culture. 2 hours and 2 hours laboratory. 3 credits. LORD.

The citrus grove: site and soil selection; preparation, planting and management; selection of varieties and stocks; the use of cover crops.

A three-day field trip is required; approximate cost \$12.50, paid at time trip is made.



HORTICULTURAL GROUNDS

He. 306.—Citrus Harvesting, Marketing, and Judging. 2 hours and 2 hours laboratory. 3 credits. LORD.

Methods of picking, handling, washing, drying, packing and shipping citrus fruits; identification and judging of varieties.

Prerequisite: **He. 305.**

A two-day trip to commercial packing-houses and by-products factories is required. Approximate cost \$10, paid at time trip is made.

He. 307.—Subtropical Fruits. 2 hours and 2 hours laboratory. 3 credits. LORD.

Avocados, mangoes, pineapples and other tropical and subtropical fruits particularly adapted to Florida; culture, varieties, insects, diseases, etc.

Prerequisite: **He. 101.**

Laboratory fee: \$1.

He. 308.—Deciduous Fruits. 2 hours and 2 hours laboratory. 3 credits. LORD.

Peaches, pears, grapes, pecans and other deciduous fruits, with special reference to Florida conditions; culture, varieties, insects, diseases, etc.

Prerequisite: **He. 101.**

Laboratory fee: \$1.

He. 314.—Principles of Fruit Production. 3 hours. 3 credits. ABBOTT.

A study of the principles underlying fruit production, such as water relations, nutrition, temperature, fruit setting and geographic influences.

Prerequisite: **Cy. 105-106.**

He. 401.—Advanced Citrus Problems. 2 hours and 2 hours laboratory. 3 credits. LORD.

An advanced course especially emphasizing the problems offered by varying sites, soils, climates, stocks, varieties, etc.

Prerequisite: **He. 305.**

Laboratory fee: \$1.

He. 402.—Breeding Horticultural Plants. 2 hours and 2 hours laboratory. 3 credits. LORD.

The application of the principles of genetics to the breeding and improvement of horticultural plants. Methods of successful breeders of horticultural plants.

Prerequisite: **Bly. 106.**

Laboratory fee: \$1.

He. 405.—Advanced Vegetable Gardening. 3 hours. 3 credits. ABBOTT.

A systematic study of the results of experiments and research in the production and handling of vegetables, and their application to present day problems.

Prerequisite: **He. 206.**

He. 411.—General Forestry. 3 hours. 3 credits. FLOYD.

The principles of forestry: forest cropping; protecting the home wood lot; use of Florida woods; varieties of timber trees; the influence of forests on other industries of the State.

GRADUATE COURSES

He. 503-504.—Horticulture Seminar

He. 505-506.—Horticultural Problems

He. 507-508.—Research Work

He. 509-510.—Problems in Refrigeration

LANDSCAPE DESIGN

By landscape design or landscape architecture is meant the systematic arrangement of landscape. It may be defined as that one of the fine arts which is concerned with the preservation and the laying out of areas of land for use and beauty. The landscape architect is concerned with any arrangement of land for any purpose wherever agreeable appearance is required. The scope of the profession is such that it is difficult to say, in every case, where it ends and where one of the allied professions begins.

The curriculum is eminently practical, from a professional point of view; the problems are given out exactly as they would be in a landscape architect's office. Theory is especially stressed, for sound theory is essential to sound practice.

Le. 207.—Elements of Landscape Design. 1 hour and 4 hours laboratory. 3 credits. BURRITT.

Drafting plates; elementary design; simple rendering with pen and ink, crayon, etc.

Le. 208.—Elements of Landscape Design. 1 hour and 4 hours laboratory. 3 credits. BURRITT.

Elementary design; water color rendering adapted to the landscape architect's plans; tree sketching.

Prerequisite: **Le. 207.**

Required in sophomore year.

Le. 210.—History of Landscape Design. 3 hours. 3 credits. BURRITT.

A study of nature's and man's organization of landscape: its development from ancient to modern times; its relation to other arts—a cultural non-technical course.

Required in sophomore or junior year.

Le. 212.—Plant Materials. 1 hour and 4 hours laboratory. 3 credits.

FLOYD, BURRITT.

Trees, shrubs and herbaceous plants suited to Florida conditions: their characteristics; landscape value and arrangement—field trips—planting plans.

Prerequisites: **He. 101; Bty. 101-102.**

Required in sophomore or junior year.

Le. 306 or 0306.—Theory of Landscape Design. 3 hours. 3 credits. BURRITT.

The principles and practice of a fine art from a professional point of view—no drafting or laboratory work.

Prerequisite: **Le. 210** for landscape design students.

Required in junior or senior year.

Le. 309.—Advanced Landscape Design. 1 hour and 4 hours laboratory. 3 credits. BURRITT.

Design of home grounds, public and semi-public properties, based upon actual topographical surveys; tree sketching.

Prerequisite: **Le. 207 and 208; Le. 210.**

Required in junior year.

Le. 310.—Advanced Landscape Design. 1 hour and 4 hours laboratory. 3 credits. BURRITT.

Design of home grounds, public, and semi-public properties based upon actual topographical surveys; tree sketching.

Prerequisite: **Le. 207 and 208; Le. 210; Le. 309.**

Required in junior year.

Le. 313.—Planting Plans. 1 hour and 4 hours laboratory. 3 credits. BURRITT.

Relation of planting to architecture. Planting plans of public and private grounds.

Le. 405.—Landscape Composition. 1 hour and 4 hours laboratory. 3 credits. BURRITT.

Design of parks, club house grounds and similar projects.

Prerequisite: Le. 207 and 208; Le. 212.

Required in senior year.

Le. 406.—Landscape Composition and Design, continued. 1 hour and 4 hours laboratory. 3 credits. BURRITT.

Planting plans for parks, parkways, country clubs, large private estates, etc., on a small scale.

Required in senior year.

Le. 408.—City Planning. 3 hours. 3 credits. BURRITT.

Historical development and broader phases of civic design.

Required in junior or senior year.

POULTRY HUSBANDRY

The student of agriculture should know something about poultry. Whether he turns to teaching, becomes a business man, or settles down on the farm, some foundation instruction in the classroom will be useful to him. Valuable changes, some of which are not yet in the text books, have come into poultry management; these are usually available through the staff of instruction.

Py. 21.—Poultry Essentials. 2 hours and 2 hours laboratory. No credit. SANBORN.

Culling, feeding, housing, breeding, etc.

Laboratory fee: \$1.

Py. 102.—Farm Poultry. 2 hours and 2 hours laboratory. 3 credits. SANBORN.

Poultry as a modest side line on the farm. Breeds and varieties; location and construction of buildings; feeding and management; incubation, breeding, rearing, care of adult birds on the farm.

Laboratory fee: \$1.

Required of freshmen in College of Agriculture.

Py. 201.—Commercial Poultry. 2 hours and 2 hours laboratory. 3 credits. SANBORN.

Growing and maturing pullets; fall and winter eggs; feeding and care; houses and yards; showing and advertising.

Laboratory fee: \$2.

Py. 202.—Commercial Poultry. 2 hours and 2 hours laboratory. 3 credits. SANBORN.

Incubation, breeding, rearing, spring and summer work, culling, farm grown feeds and poultry pastures, marketing.

Laboratory fee: \$2.

Py. 303.—Advanced Poultry Culture. 2 hours. 2 credits. Sanborn.

Origin and study of breeds and varieties; score card and comparison judging; latest methods of selecting high and low producing hens; mating for producing breeders and winners; practice judging.

Prerequisite: Py. 201, 202.

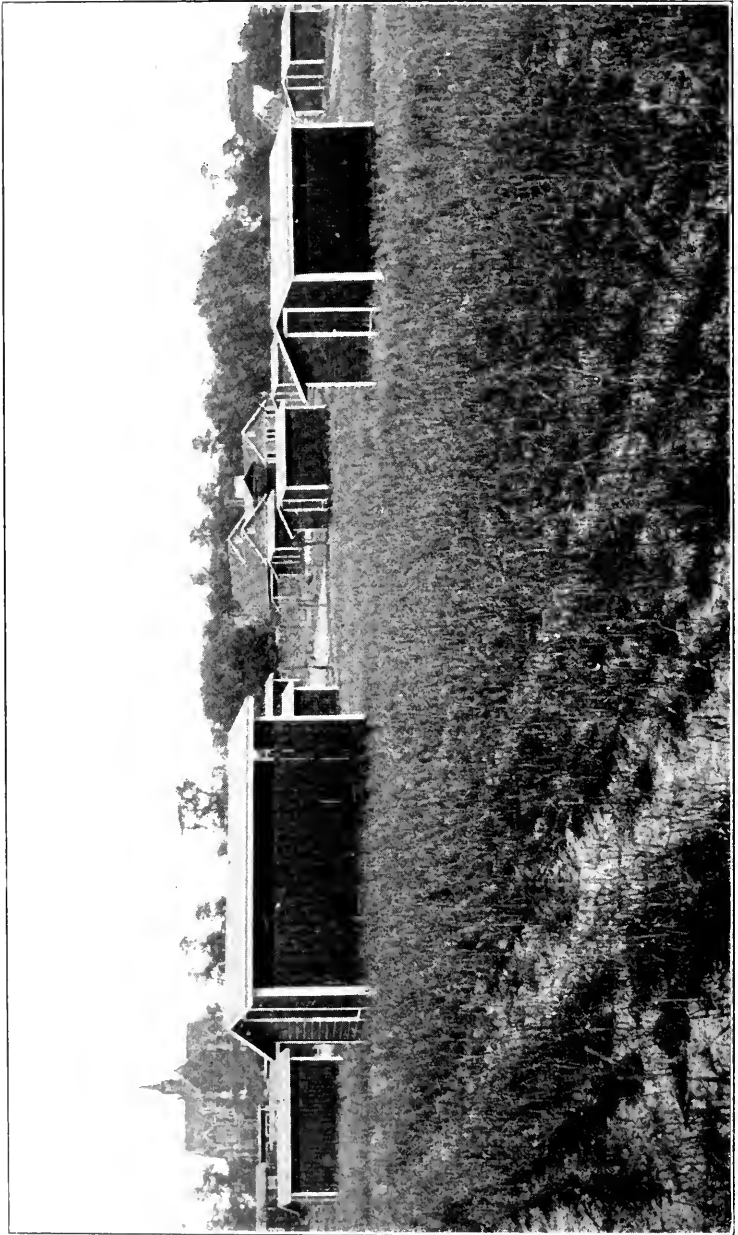
Laboratory fee: \$1.

Py. 405.—Poultry Management. 2 hours. 2 credits. SANBORN.

Study of large farms; equipment of poultry plants; planning of various buildings; laying out and conducting poultry farms.

Prerequisite: Py. 201, 202.

Laboratory fee: \$1.



BROODER AND POULTRY HOUSES

Py. 406.—Project Problems. 2 hours. 2 credits. SANBORN.

Problems to be arranged with instructor; egg hatching, investigations, poultry feeding, artificial lighting, chicken diseases, etc.

Prerequisite: Py. 201, 202, 303.

GRADUATE COURSES

Py. 501.—Research**Py. 502.—Research**

VETERINARY SCIENCE

Students who are interested in livestock should have a thorough knowledge of the normal animal, including the functions of the various organs and parts of the body. Also, it is essential to know something about the important animal diseases, their causes, symptoms, and means of prevention.

Vy. 302.—Elementary Veterinary Science. 2 hours. 2 credits. SHEALY.

Elementary anatomy and physiology of domestic animals; causes, symptoms and methods of prevention of common diseases of farm animals.

Prerequisite: AL 104.

Vy. 306.—Animal Physiology. 3 hours and 2 hours laboratory. 4 credits. SHEALY.

The skeleton; articulations; muscles; circulatory, digestive, urogenital, respiratory and nervous systems; endocrine glands; special senses.

Prerequisites: AL 104; Cy. 105 and 106.

Laboratory fee: \$2.

Required of third-year students specializing in animal sciences.

Vy. 401.—Animal Diseases. 2 hours. 2 credits. SHEALY.

Causes, symptoms, and method of prevention of common diseases of farm animals. Special consideration given to contagious diseases.

Prerequisites: Vy. 302 or 306.

Vy. 402.—Poultry Diseases. 2 hours and 2 hours laboratory. 3 credits. SHEALY.

Causes, symptoms, methods of prevention, and treatment for diseases of poultry.

GRADUATE COURSES

Vy. 501-502.—Poultry Disease Seminar**Vy. 503-504.—Problems in Poultry Pathology****Vy. 505-506.—Problems in Animal Parasitology****Vy. 507-508.—Research in Veterinary Science**

THE UNIVERSITY CALENDAR

1932-1933

First Semester

- September 9, 10, Friday-Saturday.....Entrance examinations.
 September 12, Monday, 11:00 a.m.....1932-33 session begins.
 September 12-17, Monday-SaturdayFreshman Week.
 September 16-17, Friday-Saturday
 noonRegistration of upperclassmen.
 September 19, Monday 8:00 a.m.....Classes for 1932-33 session begin; late
 registration fee, \$5.
 September 24, Saturday 12:00 noon.....Last day for changing course without
 paying the \$2 fee.
 September 24, Saturday 12:00 noon.....Last day for registration for the first
 semester 1932-33.
 November 11, Friday.....Armistice Day; special exercises but
 classes are not suspended.
 November 23, Wednesday 5:00 p.m.....Thanksgiving recess begins.
 November 28, Monday 8:00 a.m.....Thanksgiving recess ends.
 December 17, Saturday 12:00 noon.....Christmas recess begins.
 1933

- January 2, Monday 8:00 a.m.....Christmas recess ends.
 January 23, Monday 8:00 a.m.....Final examinations for the first se-
 mester begin.
 January 29, Sunday.....Baccalaureate Sermon.
 January 30, Monday 10:00 a.m.....Commencement Convocation.
 February 1, Wednesday.....Inter-Semester Day, a holiday.

Second Semester

- February 2-3, Thursday-Friday.....Registration for second semester; all
 students whose names begin with "A"
 through "M" register on Thursday; all
 others on Friday.
 February 4, Saturday 8:00 a.m.....Classes for second semester begin;
 change of course fee, \$2; late registra-
 tion fee, \$5.
 February 10, Friday 5:00 p.m.....Last day for registration for second
 semester.
 April 5, Wednesday 5:00 p.m.....Spring recess begins.
 April 10, Monday 8:00 a.m.....Spring recess ends.
 May 25, Thursday 8:00 a.m.....Final examinations begin.
 June 3-5, Saturday-Monday.....Commencement Exercises.

Entrance Examinations

Entrance examinations for admission to the various colleges of the University will be conducted for students whose credits do not meet the requirements.

Candidates wishing to take any of these examinations should notify the Registrar in writing, not later than September 1, January 15, or June 1.

For further information concerning these examinations see the *Bulletin of General Information*.

The University Record

of the

University of Florida

Bulletin of

By-Laws

To the Student:

Read carefully. You will be held strictly responsible for the observance of regulations contained herein.



Vol. XXVII, Series I, No. 12

June 15, 1932

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The Record comprises:

The Reports of the President and the Board of Control, the Bulletin of General Information, the annual announcements of the individual colleges of the University, announcements of special courses of instruction, and reports of the University Officers.

These bulletins will be sent gratuitously to all persons who apply for them. The applicant should specifically state which bulletin or what information is desired. Address

THE REGISTRAR
University of Florida
Gainesville, Florida

Research Publications.—Research publications will contain results of research work. Papers are published as separate monographs numbered in several series.

There is no free mailing list of these publications. Exchanges with institutions are arranged by the University Library. Correspondence concerning such exchanges should be addressed to the University Librarian, University of Florida, Gainesville, Florida. The issue and sale of all these publications is under the control of the Committee on Publications. Requests for individual copies, or for any other copies not included in institutional exchanges, should be addressed to the University Library, University of Florida, Gainesville, Florida.

The Committee on University Publications
University of Florida
Gainesville, Florida

FOREWORD

The purpose in printing this book of regulations is to do away with uncertainty and to make definite statements concerning what is expected of students and faculty members. In most instances the regulations are of long standing; new ones have been added only where a need was felt, and then only after many conferences with faculty members, students, and patrons.

An effort has been made to present clear statements which will cover most situations. However, the spirit of the law will determine its application in all cases. The purpose in making every regulation has been to secure suitable conditions under which faculty and students may work together in achieving the purpose back of the establishment and maintenance of the University.

It is hoped that faculty members, students, and patrons will study these regulations carefully and that all will cooperate in adapting them to our University conditions.

There may be instances in which experience may demonstrate the desirability of some changes. Suggestions from both faculty members and students will be welcomed.

BY-LAWS OF THE UNIVERSITY OF FLORIDA

I. ADMISSION TO THE UNIVERSITY

A. The general and specific requirements for admission to the University of Florida may be found in the current *Bulletin of General Information*.

B. *Matriculation for First Semester:* Freshmen must matriculate on the opening day of Freshman Week; upper-classmen not later than one week after the date scheduled in the current *Bulletin of General Information* for the beginning of classes.

C. *Matriculation for Second Semester:* No student will be permitted to matriculate later than one week after the date scheduled for the beginning of classes.

D. *Matriculation for Summer Session:* No student will be permitted to matriculate later than one week after the date scheduled for the beginning of the Summer Session.

In exceptional cases the University Senate reserves the authority to grant permission to anyone to matriculate after the aforementioned dates.

Late registration fees will be charged for students registering at any time after the regular registration period as set by the calendar in the *Bulletin of General Information*.

II. METHOD OF REGISTRATION

A. No student is properly registered until all fees have been paid.

B. A student is not permitted to drop a course, take up a course, or exchange one course for another, without the approval of the dean of the college in which he is registered. An instructor shall not admit a student to nor drop him from any class except after notification from the Registrar's office.

C. No student will receive credit for any course or examination for which he is not properly registered.

D. On the recommendation of the head of the department and the approval of his dean, a course or section may be closed to further registration when the number registered in it has become as large as can be satisfactorily handled. Such recommendations shall be transmitted promptly to the Registrar.

E. Where there is more than one section of a course, the head of the department concerned is responsible for the assignment of a student to the proper section.

F. A change in section is allowed only with the approval of the head of the department concerned and must be reported immediately by the student to his dean. The dean shall inform the Registrar of the change.

G. Any unauthorized change in schedule by the student is a direct violation of the University regulations.

H. Simultaneous registration in residence and extension or correspondence courses is permitted only when approved by the dean concerned. When a student registers for a correspondence course for college credit at the University of Florida, a complete record of this work shall be sent to the Registrar's office.

I. *Auditing Courses:* Students registered at the University of Florida may be permitted to audit courses with the written consent of the instructor in charge and the approval of the dean of the college in which the student is registered.

Persons not registered in the University may be permitted to audit courses with the written consent of the instructor in charge and the approval of the dean of the college in which the course is offered by paying a fee of \$1.00 per semester hour for such privilege.

In no case will auditors be given the privilege of taking examinations, and instructors may not grade written work for auditors of a course. No part of the credit attached to a course will be given to auditors. In all cases permission to visit may be revoked if for any reason the presence of the auditor proves unsatisfactory to the instructor, or to the dean of the college.

III. FEES AND TUITION

For a detailed description of fees and tuition, see the *Bulletin of General Information*.

Non-resident Students: All students in any college of the University, except graduate fellows and assistants, who are not legal residents of Florida are charged a non-resident fee of \$100.00 per year, payable \$50.00 each semester. This fee is charged in addition to all other regular fees, including those for tuition.

The burden of registering under proper residence is placed upon the student. If there is any question as to his legal residence being in Florida, the matter should be brought to the attention of the President or his duly constituted representatives and passed upon prior to registration or the payment of fees. Any student who registers improperly under this rule shall be required to pay not only the non-resident fee, but, in addition, a penalty of \$10.00. Students who do not pay the non-resident fee within thirty days after they have been notified that it has been assessed against them will have their registration in the University cancelled.

No person shall be considered eligible to register in the University as a resident of the State of Florida unless he has been a *bona fide* resident of the State during the twelve months immediately preceding the date of his registration. The residence of a minor shall be that of his legal guardian. If the non-resident student be a minor, his legal residence for the purpose of this rule shall not be considered established in the State of Florida until the expiration of twelve months after the appointment of a resident guardian.

IV. DEGREES AND GRADUATION

A. *Degrees*: The special requirements for the various degrees conferred by the University will be found in the Bulletin of each of the schools and colleges. The following regulations apply to all colleges:

1. In order to secure a degree, a student must earn as many honor points as semester hours required for that degree.
2. Two degrees of the same rank, e.g., A.B. and B.S., will not be conferred upon the same individual unless the second degree represents at least thirty credit hours of additional work.
3. The minimum residence requirement for the baccalaureate degree is two semesters, or one semester and two summer sessions, or three summer sessions. New students offering advanced standing must meet this requirement after entrance to the University. Students who break their residence at the University by attending another institution for credit toward the degree must meet this requirement after reentering the University. See also Section 5 below.
4. For the Master's degree two semesters or four summer sessions are necessary to satisfy the residence requirements.
5. Students are required to complete the last thirty credit hours (27 for the Normal Diploma; 28 in the College of Law) applied towards the baccalaureate degree during regular residence in the college from which the student is to be graduated. Exception to this regulation may be made only upon written petition approved by the faculty of the college concerned, but in no case may the amount of extension work permitted exceed the provisions of Section O of this paragraph. See Section O, page 373.
6. Advanced standing may be secured on work offered from accredited institutions of the same rank as the University of Florida. No credit will be given for any work transferred from other institutions where the grade is below C.
7. Students seeking admission from either accredited or non-accredited institutions will be considered upon their own individual merits.
8. With the approval of the dean concerned, the head of a department may grant a student permission to take an examination for credit upon work done at a non-accredited institution, provided, however, that advanced work in the subject has not been taken.

B. *Transfers from One College to Another within the University*: In case a student transfers from one college to another within the University, he shall be required to meet the honor-point requirements of the class with which he is graduating or in which he is enrolled.

C. *Continuous Residence*: If a student's attendance is continuous, he will be permitted to graduate according to the catalog under which he entered. If, however, there are breaks in attendance aggregating more than three years, the student will be required to fulfill the requirements of the catalog under which he reregistered. As long as the student attends the University as much

as one semester or Summer Session during each year, attendance is deemed to be continuous.

D. *Choice of Courses:* Subject to proper preparation, the choice of the college which he will enter and of the curriculum which he will pursue in it rests with the individual student. The group of studies selected, however, must belong to one of the regular years in the chosen curriculum exactly as announced in the Bulletin of the college for the year in which the student entered, unless special reasons, approved by the dean of the college in which the student is registered, exist for deviating from this arrangement.

1. *Sequence of Courses:* Students are required to take the work as arranged in the various curricula for the degree which they desire. Only under very exceptional circumstances will a student be permitted to take advanced work before the work of a lower class is entirely completed. This regulation is administered by the deans and heads of the various departments.
2. *Failure in a Required Course:* When for any reason a student is permitted to drop a required course during a semester, or fails in a required course for the semester, he must take this course the next semester it is offered. In case of conflict with other required courses, the course dropped or failed must take precedence.

E. *Maximum and Minimum Load:* The minimum load of any student shall be twelve hours. (Nine in the College of Law; six in the Summer Session.)

The maximum load, including work by correspondence or extension, shall be regulated according to the following table:

Honor Point Average for Previous Semester or Summer Session	Maximum Load	
	Regular Session	Summer Session
Less than 1	16 hours	9 hours
1 up to, but not including, 2	19 "	10 "
2 up to, but not including, 3	21 "	11 "
3	24 "	12 "

Mature students who are regularly employed may register for less than twelve credit hours with the approval of the dean of the college. The Registrar shall be responsible for seeing that this regulation is adhered to.

F. *Laboratory Work:* Laboratory work shall be credited as follows: not more than three hours, nor less than two shall be required for one hour credit. The number required shall be determined by each department.

Exceptions to this rule may be permitted by the head of the department and the dean of the college concerned.

G. *Credit for Year Courses:* A passing grade in the first semester's work in a year course does not entitle a student to any credit until he has completed the work of the second semester with one of the grades *A*, *B*, *C*, or *D*.

H. *Credit for Beginners in Languages:* Students offering high school credit in a modern language course cannot receive credit for a beginner's course in this language in the University.

1. *Credit for Geometry and Trigonometry:* Students presenting entrance

credits in either solid geometry or trigonometry may not obtain credit for corresponding courses in mathematics (Ms. 83 and 85) in college.

J. *Credits Required for Graduation*: The number of credits which the student must earn in order to be graduated is specified by the individual colleges. The student should consult the bulletin of the college in which he is registered.

In order to be graduated from any college of the University, however, the student must have earned at least one honor point for every credit hour required for graduation. For example, to receive the degree of Bachelor of Arts, the student must have earned at least 134 credit hours, and at least 134 honor points.

K. *Advanced Standing*: In order to receive credit at the University of Florida for work done in another accredited institution of higher learning, the grade must be of at least C. In order to be graduated, the student must earn at the University of Florida at least one honor point for each credit hour which he is required to earn at the University of Florida.

L. *Application for Degrees*: Seniors who expect to be graduated must file application for the degree or diploma in the Registrar's office on or before the fourth Saturday of the regular session or the second Saturday of the Summer Session in which they expect to obtain the degree or diploma. Students who do not obtain their diplomas at the time first applied for must make a new application in the semester or Summer Session when they again expect to receive them.

M. *Time Limit*: To receive a degree, diploma, or certificate, a candidate must have completed: (a) all residence work required for graduation at least 36 hours prior to the time scheduled for the meeting of the College faculty at which the candidate will be voted a degree; (b) all extension work at least one month prior to the time scheduled for the meeting of the College faculty at which the candidate will be voted a degree.

N. *Double Registration*: Students who have previously completed the requirements for a degree or diploma in residence in the college in which the degree is to be granted will be allowed to obtain that degree at such time as they properly apply for it without additional expense of registration.

Students taking a combined course will be required to make a double registration during the semester in which they expect to receive any degree.

O. *Extension Work Permitted*:

1. Students will not be permitted to take more than twelve semester hours by correspondence study or in extension classes during any academic year.
2. Students will not be permitted to take more than nine semester hours work by correspondence study during the summer vacation period.
3. The Board of Control has ruled that in the future the amount of extension work students will be allowed credit for towards a degree at the University of Florida shall not exceed one-fourth of the amount required for the degree. In enforcing this regulation the following rules shall apply:

- a. The rule shall apply literally to all students who have not enrolled in residence prior to the Summer Session of 1931.
 - b. All persons who may graduate at the end of the Summer Session of 1933 under the old rule may be permitted to do so.
 - c. All persons enrolled in residence prior to the Summer Session of 1931 who do not graduate at the end of the Summer Session of 1933 will be allowed all credit earned by extension under the old rules up to that time. However, if, at that time, the credit earned by extension equals, or is in excess of, one-fourth of the amount required for the degree, students concerned will not be allowed to do any additional extension work.
4. Students will not be permitted to take more than twelve of the last thirty-six semester hours necessary for a baccalaureate degree by correspondence study or in extension classes. The student must be in residence for at least the semester or Summer Session in which he receives this degree.
 5. No resident student may enroll in extension classes if a resident course is offered at the same time.
 6. Students dropped the first time for failure may be permitted to take extension work during the time they are ineligible to register for residence work provided the approval of the dean of the college in which the student is registered is secured. Any work registered for under this provision must be satisfactorily completed before the student can reenter the University as a resident student.
 7. Simultaneous registration in residence and extension or correspondence courses is permitted only when approved by the dean concerned. When a student registers for a correspondence or extension course for college credit at the University of Florida, a complete record of this work shall be sent to the Registrar's office.

V. MILITARY SCIENCE

(R. O. T. C.)

A. *General:* The Reserve Officers' Training Corps offers a four-year course in Military Science and Tactics as prescribed for Infantry and Field Artillery. Students registered in the College of Agriculture, the College of Pharmacy, the College of Education and the College of Engineering, and in the A.B. course in the College of Arts and Sciences are assigned to the Artillery; those registered in the College of Commerce and Journalism, in the School of Architecture and Allied Arts, in the B.S. and Pre-Medical courses in the College of Arts and Sciences, and any students not otherwise mentioned, are assigned to the Infantry.

B. *The Basic Course:* The Basic Course covers the first two years of this instruction, and satisfactory completion of it is required of all students except the following:

1. Students who are twenty-one years of age at the time of entering upon their college work at the University of Florida.

2. Students unable to drill by reason of physical disability, as certified to by the University Physician.
3. Students whose military work in other institutions is accepted by the Professor of Military Science and Tactics as fulfilling the requirements.
4. Students admitted to the University of Florida who hold a commission in the Army of the United States.
5. Students who enter the University with advanced credit of one or more years of college work from accredited institutions.
6. Special students taking courses of a duration of one year or less.
7. Students who are citizens of foreign countries.

Students exempt from Military Science for any reason whatever must, in order to receive a degree, offer an equal number of hours of other course work in lieu of Military Science. Choice of these courses must in all cases be approved by the dean of the college in which the student is registered.

The Registrar is authorized to administer the aforesaid rules.

C. The Advanced Course: Students who complete the Basic Course and are selected by the Professor of Military Science and Tactics and the President of the University may elect the Advanced Course, which may lead to a commission in the Officers' Reserve Corps of the United States Army. Students registering in this course are required to carry it to completion.

D. Attendance: Regulations covering absences from Military Science classes, drills, and dress parades will be found under the section on absences.

E. Credit from Other Institutions: Credits for Military Science from other institutions shall in no case exceed the amount of credit allowed by those institutions, or the amount of credit allowed for a similar course at the University of Florida. No college credit towards a degree is allowed (although the military requirements may be waived) unless the work was regular college course work taken in a recognized college or university.

VI. GRADES AND HONOR POINTS

A. Marking System: Results of students' work are recorded in the Registrar's office according to the following scale:

- A*—Exceptionally high quality, valued at three quality points for each credit.
- B*—Good, valued at two quality points for each credit.
- C*—Fair, valued at one quality point for each credit.
- D*—Unsatisfactory, indicating a deficiency and giving no quality points, but giving credit for graduation.
- E*—Failure.
- I*—Incomplete.
- R*—Conditioned. (Given only to students classified as freshmen or sophomores.)
- X*—Absent from examination.
- N*—Indicates that a grade has not yet been turned in by the instructor.
- W*—Indicates that the course was dropped while the student was passing.
- EW*—Indicates that the course was dropped while the student was failing.

B. *Explanations:* The grade of *E* indicates complete failure in the course. In order to receive credit, the student must repeat the course in class.

The grade of *I* means that some relatively small part of the term's work remains undone because of sickness or of some other reason satisfactory to the instructor. This work must be completed by mid-semester of the following semester or Summer Session after reentering the University if credit for the course is to be gained. The grade *I* is not given to a student whose work is below passing. If not removed within the time specified, it will be changed to *E*.

The grade *R* denotes a condition with re-examination privileges at the next re-examination period during residence in the University. If the re-examination is not taken at that time, or is taken and not passed, the grade *R* will automatically be changed to *E*. Only freshmen and sophomores may be given a grade of *R*. Students who pass a re-examination will receive the grade *D* in the course.

The grade *X* denotes that the student was absent from the examination. The grade *X* entitles the student to a deferred examination at the next re-examination period during residence in the University, provided his absence was due to illness or other extenuating circumstances. If the student cannot furnish a satisfactory excuse to both the instructor and the dean, he is not entitled to a deferred examination and the grade *X* automatically becomes *E*. If the deferred examination is not taken at the next re-examination period during residence in the University, or is taken and not passed, the grade *X* will be changed to *E*. If the examination is passed the student shall receive the same grade as he would have, had he taken it at the regularly scheduled time.

The grade *W* indicates that the student dropped the course during the semester but was passing in the course at the time it was dropped.

The grade *W* indicates that the student dropped the course during the semester and was failing the course at the time it was dropped. (For the effect of *W*, see Section IX, "Failure in Studies.")

The grade *N* indicates that the instructor did not turn in a grade for the student for the period covered by the report.

Students may not remove a condition in the first semester of year courses by averaging the grades of the second semester with those of the first.

The lowest passing grade for graduate students is *B*.

C. *Repeating Courses:* Any candidate for a degree who has passed a course with a grade of *D* may, with the permission of his dean, be permitted to take the course over with a view of obtaining a higher grade carrying honor points. The grade obtained on repetition of a course will be regarded as the final grade in said course.

VII. REPORTING OF GRADES

Grades are reported to the Registrar at the mid-semester as well as at the end of the semester. The semester and mid-semester grades for the regular session will be sent to the parents or guardians.

Grades for the Summer Session will be sent to the students only.

On dates as set forth in the current calendar, faculty members shall send to the Office of the Registrar and to the Dean of Students a delinquency report on all freshmen and sophomores who, in the opinion of the faculty members, are falling below a grade of *C*. The Registrar shall forward these reports to the deans of the respective colleges. It shall be the duty of the Dean of Students to notify parents or guardians of all students who are reported as being delinquent at these periods. He shall also interview all students reported as being seriously delinquent.

It shall be the duty of all instructors to make grades available for students at the end of the semester and at the end of the mid-semester period. All first semester grades must be made available by or before 8:00 o'clock, a.m., of the first day of the second semester.

VIII. AVERAGES

A. *How Computed*: Averages are determined by computing the ratio of credits to honor points. The student receives honor points according to the following scale:

GRADE	HONOR POINTS PER CREDIT
A	3
B	2
C	1
D	0
I	-1
R	-1
E	-2
Ew	-2
X	-2

The highest average which the student may earn is 3.

Upon the removal of an *R*, *I*, or *X*, the attached negative honor points will be replaced by the honor points accompanying the new grade. Negative honor points incurred because of an *E* are not removed from a student's record.

B. *Group Averages*: Group averages are computed by the method adopted by the Association of Deans of Men. This method gives the average number of honor points earned for each credit hour taken by the group during the period of time for which the average is computed.

C. *Honor Roll*: An honor roll is published each semester, consisting of the names of all regular students having individual averages of 2.3 or more on academic work and having no failures in non-academic work.

At each mid-semester an honor roll is published for freshmen and sophomores.

D. *Honorable Mention*: A list giving honorable mention to all those regular students making individual averages between 2.00 and 2.29 inclusive on academic work and having no failures in non-academic work is published each semester. A similar list for freshmen and sophomores is published at each mid-semester.

IX. FAILURE IN STUDIES

A. When the grades of a student are unsatisfactory, he may be required to drop some of his studies and substitute those of a lower class. A grade is assigned at mid-semester and at the end of each semester in each subject which the student is carrying. If this grade is not *A*, *B*, *C*, or *D*, the student is considered to be failing in that subject.

A student who does not pass more than 50 percent of his work for the semester, or for the Summer Session, will be dropped from the University by the Registrar. He will not be permitted to reenter until one full semester or Summer Session has elapsed after such failure. Notification is made to the student at his University address by registered letter from the Office of the Registrar.

In case of failure in one course only, the student will not be dropped, even though this failure may constitute 50 percent or more of his work.

When a student is dropped for non-attendance or resigns while failing 50 percent or more of his work during the last quarter of the semester or Summer Session, he will not be permitted to reenter the University until one semester or Summer Session has elapsed. If a student is dropped for non-attendance or resigns, even though failing 50 percent or more of his work, before the last quarter of a semester or Summer Session, he will be allowed to reenter at the beginning of the next semester.

Students who have been dropped twice from the University for any cause (whether consecutively or not) are considered to be dropped permanently, and their records are so marked. They can not be readmitted to the University except by vote of the University Senate. A student who, having been dropped permanently for failure in studies, desires to reenter the University shall file his petition for readmission with the Secretary of the University Senate. This petition should be accompanied by evidence or testimonials which might have weight in influencing the decision of the Senate.

The first time a student is dropped from the University for failure, his record shall be marked, "Dropped first time for failure in studies." The second time a student is dropped for failure in studies, his record shall be marked, "Dropped permanently for failure in studies." In both cases the student is entitled to honorable dismissal unless his failure is clearly due to negligence.

Students presenting credits earned while not eligible for registration at the University of Florida on account of failure in studies may be given provisional credit on reentry. Credit for this work will be given if the student makes a *C* average for the semester immediately following reinstatement. The work in question must be taken at an accredited institution and will be evaluated according to the regulations of the University of Florida.

Students dropped the first time for failure may be permitted to take extension work during the time they are ineligible to register for residence work provided the approval of the dean of the college in which the student is registered is secured. Any work registered for under this provision must be satisfactorily completed before the student can reenter the University as a resident student.

In case a student comes under the application of the 50 percent rule at the end of the semester on account of *F*'s, *R*'s, or *X*'s, these must be removed by the time of the end of the registration period for the following semester.

B. *Complete Failure in One or More Courses:* If at any time a student is failing completely in any course, if he fails repeatedly to hand in the required written work, if he absents himself without satisfactory excuse, or if in general he shows no disposition or capacity to do the work required, he may be compelled to drop the course; and if thereby his total number of hours falls below the minimum required, he will be dropped from the University and his record marked, "Dropped for failure in studies."

C. *Dropping a Course:* Provided a student drops a course before the first five weeks of a regular semester or the first two weeks of the Summer Session have elapsed, he shall not receive a grade. If, after these periods have elapsed, the student drops a course in which he is failing, he shall be given a grade of *Ew*. If he is passing in the course at the time it is dropped, he shall be given a grade of *W*.

X. RE-EXAMINATIONS

The grade *R* entitles freshmen and sophomores to a re-examination, subject to the following conditions:

A. Only one re-examination is allowed in each course.

B. A re-examination must be taken on or before the next scheduled re-examination date during which the student is in attendance at the University. If taken at other than the regularly scheduled time, the student must pay a special examination fee of \$5 and secure the consent of the instructor.

Spring re-examinations may be deferred until the fall period upon petition of the student to his dean and to the Registrar. In the absence of such petition, students who do not take a re-examination before registering for the fall term automatically lose the privilege of re-examination. The grade on a re-examination must be *C* or above in order for the student to pass, but no honor points will be allowed on a course in which credit is thus obtained. Students are required to pay the fee and make application to the Registrar on the dates set in the University calendar.

C. Failure to apply by dates set in the University calendar will cause the student to lose the privilege of re-examination, as the time between these dates and those set for the examinations is necessary to obtain questions and to arrange a general schedule for the examinations.

D. Students registering for the fall session are held responsible for taking a required re-examination during the three days preceding fall registration.

E. With the semester grades sent to the parents by the Registrar is included a card to be used by the student for making application for any re-examination to which he may be entitled. Such cards must be deposited in the Registrar's office by the dates set in the calendar, and must bear the Cashier's receipt of payment of the re-examination fees.

F. Failure to take re-examinations at the scheduled time causes the grade *R* to be changed to *E*, with the loss of the privilege of re-examination.

XI. FINAL EXAMINATIONS

A. *Semester Examinations*: Examinations on the material covered in the course are held at the end of each semester. Exemptions from final examinations are not permitted.

B. *Length of Examinations*: No examination shall continue longer than three hours.

C. *Deferred Examinations*: Upon recommendation of his dean, a student may defer a final examination to a time not later than the next re-examination period, provided proper notification is made at the office of the Registrar.

XII. INTERCOLLEGIATE ACTIVITIES

To be eligible to represent the University of Florida in any athletic, musical, forensic, or other intercollegiate activity, a student must not be on probation and must have passed more than 50 percent of the work for which he was last registered in the University of Florida; and must have passed at least nine credit hours (a student registered in the College of Law must have passed at least six credit hours); provided nothing in this section be construed to exclude a student first entering the University of Florida from participation in any freshman activity. At least forty-eight hours before a contest, the chairman of the faculty committee responsible for the organization which the student wishes to represent shall submit to the Registrar for his approval a list of all participating students. All such reports shall be delivered in person or by special messenger to the Registrar's office. The faculty committee having charge of any student activity coming under the above rule may designate some faculty member to be responsible for the reports.

Deficiencies may be removed by the re-examination privilege when earned; or by extension work, provided the student is eligible for such work; or by any other method permissible under the rules and regulations of the University.

A Summer Session at the University of Florida shall be considered as a semester in the application of the above rule.

To continue to be eligible for participation in any of the above activities, a student must be passing in more than 50 percent of his studies, according to the latest reports in the Registrar's office. He must not be on probation for any delinquency in conduct or attendance.

B. Instructors shall, upon request of the Director of Athletics, furnish him information regarding the progress of the members of athletic teams enrolled in their classes.

C. *Schedules*: No intramural game shall be scheduled at an hour that would cause a participant to miss a class, or before 4:00 p.m. of any day except Saturday.

No intercollegiate game shall be scheduled during a final examination or re-examination period, as announced in the current *Bulletin of General Information*.

D. *Southern Conference Eligibility Rule*: "Rule 2. No person shall participate in intercollegiate athletics at an institution until after the ex-

piration of twelve months from the date of his matriculation there, and until he shall have completed the scholastic requirements of that institution. Before a student may participate in his first varsity year, he must remain in the institution an entire scholastic year and must meet the classification requirements of his institution so that he qualifies for the next higher class, before being eligible to participate further in athletics."

XIII. RECORDING HONORS AND ACTIVITIES

A record of all medals, prizes, and other honors awarded to students shall be filed with the Registrar and the Dean of Students.

Each faculty member in charge of any extra-curricula activity shall, at the end of each semester, report to the Registrar and the Dean of Students, the names of all students taking part in that activity.

XIV. CONDUCT

A. *Offenses Against Good Conduct*: All students will be held responsible for conformity to all laws of the Nation and of the State.

The following offenses are deemed to be against the best interests of the University and will be treated with severity:

1. Disrespect to an officer of the University.
2. Wanton destruction of property.
3. Gambling.
4. Drinking or having liquor in possession.

B. *Smoking in University Buildings*: The following resolution has been adopted by the Board of Control:

"BE IT RESOLVED, by the BOARD OF CONTROL that smoking in University buildings shall be limited to DORMITORIES, CAFETERIA, SOCIAL HALLS, OFFICES and LAVATORIES, and

"BE IT FURTHER RESOLVED, That all members of the faculty, student body and other employees are requested to cooperate in carrying out this regulation."

C. *Regulation Uniform*: During both regular and Summer Sessions of the University, all students appearing on the athletic fields, tennis courts, track, swimming pool, or gymnasium must wear regulation uniforms. A special place will be provided by the Department of Physical Education for those desiring to take sun baths. The office of the Athletic Department shall enforce this regulation.

D. *Degrees of Discipline*: The degrees of discipline are:

1. Reprimand.
2. Probation on condition.
3. Suspension.
4. Expulsion.

REPRIMAND is given by the proper officers of the University, according to the circumstances of the particular case.

PROBATION may apply to various conditions, but no student on probation may represent the University in any intercollegiate contest, nor may he hold

any student-body office or any University position for which remuneration is given.

SUSPENSION excludes the student from the University for a definite time.

EXPULSION is permanent dismissal from the University.

XV. ABSENCES

A. For each semester credit hour in any course, one absence is not reported to the Registrar, except as provided in Rule F below.

NOTE: It is expected that these non-reported absences shall, in most cases, be sufficient to take care of necessary absences due to sickness and extra-curricula activities. In no case may a student expect a penalty due to deliberate absence or absences to be suspended.

B. NO EXCUSES WILL BE ACCEPTED FOR ABSENCES.

C. Members of the faculty are required to report absences to the Office of the Registrar, in the manner specified, on blanks provided for this purpose by the Registrar.

D. For the first eight absences reported to the Registrar in any one semester (counting absences in all courses) and for each additional four absences so reported, one hour of negative credit will be imposed. For exceptions, see Rules E and H below.

E. A student will have two reported absences cancelled for each honor point in excess of the number of semester credit hours for which he was registered during the semester. Excess honor points may be used to cancel absences only in the semester in which they are earned. The use of honor points to cancel absences does not prevent their use for graduation.

F. When a student's absences in any one course, including the absences described in Rule A, amount to more than three times the number of credit hours specified, the student shall be dropped from the course with a grade of *Ew*, for which grade he receives two negative honor points for each credit hour. As soon as the number of absences reaches this point, the instructor must report them to the Registrar on the special forms provided for this purpose.

In case a student's latest reported grade in a course is sufficient to offset enough absences by Rule E, the Chairman of the Committee on Attendance will have authority to continue him in the course, even though his absences in the course number more than three absences per credit hour.

Non-credit courses will be considered as credit courses according to the number of hours the class meets per week.

G. Upon proper petition, by the student, any penalty or penalties incurred solely by excessive absences due to sickness, absences under the Nine-Day Rule, or other unavoidable causes shall be considered individually by the Committee on Attendance, which has authority to act, subject to the limitations imposed by the Note in Rule A above.

H. For the administration of these rules, a Summer Session shall count as a semester.

I. Each semester is to be considered as a separate unit in administering these rules.

J. Each absence during the twenty-four hours (excluding Sundays) immediately preceding or following a holiday shall be counted as two absences. Appeals from this rule may be addressed to the Committee on Attendance, which has authority to act.

K. Students who have had excessive absences amounting to four or more negative penalty hours (See Rule D) during a semester will be placed on probation by the Committee on Attendance during the succeeding semester. Should the student violate the terms of probation, the Committee shall drop him from the University. The Registrar, the student, and the dean of the college concerned shall be notified of such probation.

Rules applying to dismissal for failure in studies shall also apply to dismissal for absences.

Absences count from the first meeting of the class rather than from the date a student registers for a class.

L. *Absences from Military Science:*

1. Classes: The same regulations apply to absences from Military Science courses as to academic courses.

2. Drill and Dress Parade: All absences from Drill or Dress Parade are required to be made up before the close of each semester. Should any student be absent six times during a semester, without approval from proper authority, he will be placed on probation and so notified. If he is absent thereafter, he will be reported to the Registrar, who will notify the student that he has been dropped from the University. Any student so dropped may have his case reviewed by the Committee on Military Affairs, but must make application for such review in person within forty-eight hours (not including Saturdays, Sundays and holidays) after the date on which he was dropped.

M. *Nine-Day Rule:* No student shall absent himself from the University for more than nine scholastic days per semester in order to participate in athletic or in other extra-curricula activities.

Schedules of each extra-curricula activity must be approved by the proper faculty committee, namely: athletic schedules, by the Committee on Athletics; debating and oratorical schedules by the Committee on Public Debating, and dramatic and glee club schedules by the Committee on Glee Club and Dramatics.

The Nine-Day Rule applies to individual members of the groups rather than to the group as a whole. Consequently, a schedule of more than nine days for any activity is not prohibited, provided the personnel of the group is so rotated that no student is absent from the campus for more than nine "scholastic days" (a "scholastic day" is defined as any day upon which regular University work is scheduled). Should occasion arise where the Nine-Day rule seems to work a hardship, appeal may be made to the University Senate.

XVI. SELF-HELP

The Committee on Self-Help, of which the Dean of Students is chairman, undertakes to award positions on the campus to deserving *upperclassmen*. The Committee shall be governed by the following conditions in making appointments:

- A. The scholastic record of the student shall be taken into consideration.
- B. Preference shall be given to those having experience.
- C. The financial condition of the student shall be taken into consideration.
- D. No graduate students shall be appointed except as graduate assistants in positions requiring the training which the student has received in college.
- E. No student on probation for any cause shall be given a position. A student who, while holding a position, is placed on probation shall be required to resign from his position.
- F. Students shall not be allowed to hold appointments in the Cafeteria for more than three years beyond the freshman year.

XVII. CLASSIFICATION OF STUDENTS

A. The following table lists the *minimum* number of semester credits and honor points necessary for classification with advanced standing:

CLASSIFICATION	MINIMUM NUMBER OF CREDITS AND HONOR POINTS
Sophomore	18
(In the College of Engineering)	20
Junior	52
(In the College of Engineering)	58
(In the College of Law)	15
Senior	86
(In the College of Law).....	43

The regulation concerning honor points applies to all classes entering September, 1931, and thereafter.

Until all entrance credits have been satisfied, a student shall not rank higher than a freshman; a student deficient in any freshman work shall not rank higher than a sophomore; one deficient in sophomore work, not higher than a junior. A special student is not considered as belonging to any regular class. No student under twenty-one years of age may register as a special student without the consent of parent or guardian and the dean of his college.

When special students make up their deficiencies, they may become regular students, and candidates for a degree.

B. *Special Students:* Students desiring to take special courses may be allowed to take those courses for which they are prepared. The number of such students in a college is, however, restricted to an extremely small percent of the total enrollment. These students are subject to all the laws and regulations of the University. Special courses do not lead to a degree. The College of Law does not admit special students.

The University permits special courses to be taken solely in order to provide for the occasional exceptional requirements of individual students. Accordingly, no minor is permitted to enter as a special student except in the College of Agriculture. A special student will be required to pursue a regular course, even though he may expect to attend the University only for a year or two.

C. *Adult Specials*: Persons twenty-one or more years of age who cannot satisfy the entrance requirements but who give evidence of ability to profit by the courses they may take, may, under exceptional circumstances, be admitted as "Adult Specials."

XVIII. SOCIAL ACTIVITIES

All student social affairs shall be under the jurisdiction of the Committee on Student Organizations, which shall be composed of four representatives from the faculty, appointed by the President of the University, including the Dean of Students as *ex-officio* chairman, and three students selected as follows: one member named by the Executive Council of the student body, one member named by the Honor Court, one member named by the Interfraternity Conference.

A. *Dance Periods*:

1. Three dance periods, prescribed by the interfraternity organizations, have been designated for social activities of student organizations of the University of Florida.
 - a. *Homecoming*: The week-end of Homecoming.
 - b. *Spring Recess*: At a specified time during the Spring.
 - c. *The Finals*: During the last week of the second semester.
2. Formal and informal dances may be given during these periods.
3. Pop dances, tea dances, script dances, or other social functions of a similar nature, if approved by the Committee on Student Organizations, may be given during or between these regular dance periods. Such social occasions shall be limited for a single student group to an average of one event per month.

No house parties shall be authorized except during the Spring Recess.

B. *Time for Dances*:

1. All dances or other social events given by or at the expense (wholly or in part) of student organizations of the University, and approved by the Committee of Student Organizations, may be held only on Friday or Saturday afternoons and evenings. Friday evening dances shall terminate not later than 1:00 a. m., and Saturday evening dances not later than midnight. In special cases an entertainment, approved by the Committee on Student Organizations, may be scheduled for the morning hours, but never earlier than 10:00 a. m.
2. All social activities shall cease at 2:30 a. m., and fraternity houses at which young ladies are guests must be cleared of men by that time.
3. There shall be a house chaperon (or chaperons) approved by the Committee on Student Organizations at each fraternity house in which young ladies

are guests. It shall be one of their duties to see that the young ladies are in their rooms for the night by 2:30 a. m.

4. It shall be the duty of the president of the fraternity or organization to supply the house chaperons with a list of the guests and to inform them of the University ruling in this respect. Representatives of the student organizations or groups shall be jointly responsible with the chaperons for the behavior of students and guests on the dance floor at fraternity houses at which young ladies stay.

C. *Authorization for Dances:*

Authorization for formal, informal, script, or tea dances, or for a social entertainment of any nature, given by or at the expense (wholly or in part) of a student organization of the University of Florida during the school term, either on or off the campus, must be secured from the Chairman of the Committee on Student Organizations, from whose office authorization blanks may be secured. The application must be signed by the president and the chairman of the entertainment committee of the student organization, or by those persons responsible for the event, and also by the chaperons. (A letter of acceptance from an out-of-town chaperon may be submitted in lieu of the signature on the application.) This requirement applies also to social events of student organizations held out of Gainesville during the regular session of the University.

D. *Conduct of Dances:*

1. At each dance given by any student organization or group there shall be a Floor Committee, appointed by such organization or group. It shall be the duty of the Floor Committee to report to the dance chaperons at frequent intervals for advice and suggestions concerning the conduct of the dance.

2. Participants in dances and all social functions given by student organizations or groups of the University shall conduct themselves as ladies and gentlemen. Failure on the part of any one to comply with this requirement may result in exclusion from all such social functions.

E. *Forms of Dances Defined:*

1. *Pop Dance:* A dance given on comparatively short notice in order to entertain local or visiting girls. Pop dances must close at midnight.

2. *Tea Dance:* One having the same classification as a pop dance, except that it is given between the hours of 4:00 p. m. and 8:00 p. m.

3. *Informal Dance:* One without purchased decorations or favors, or hired music, with simple and inexpensive refreshments.

4. *Formal Dance:* Any dance beginning after 9:30 p. m., at which purchased decorations, favors, and hired music are provided. The cost of formal dances must be kept within reasonable limits, estimates of which must, previous to the dance, be submitted to and approved by the Committee on Student Organizations.

F. *Place for Social Entertainments:*

1. Fraternities entertaining must do so in their homes or at some place approved by the Committee on Student Organizations.

2. Non-fraternity groups or organizations entertaining must do so at a place approved by the Committee on Student Organizations.

G. *Social Functions Given for Profit*: On or before January 15 (for the first semester) and May 15 (for the second semester), the chairman of a student organization giving any form of social entertainment for the purpose of raising money for the organization, or for any division of the University, shall file with the Business Manager of the University a financial statement showing all receipts and disbursements during the semester in question.

H. *Social Calendar*:

1. The chairman of the Committee on Student Organizations publishes each semester a social calendar of the University. Each student organization shall prepare and submit to said chairman a tentative list of social events which it expects to give, to be entered on this calendar. The list of functions to be given during the first semester shall be submitted on or before October 1; a list of those to be given during the second semester, on or before January 15.
2. Failure on the part of any student organization or group to comply with the above regulations shall make it liable to exclusion from social activities during the semester involved.
 1. Violation of the foregoing regulations by a student organization or group of the University may result in a denial of further social privileges, and, if the Committee on Student Organizations deems such violation a serious one, the case shall be submitted to the Committee on Discipline for action.

XIX. FRATERNITIES, SOCIETIES, AND CLUBS

A. *Committee on Fraternities, Societies, and Clubs*: There shall be a Committee on Fraternities, Societies, and Clubs composed of four members of the faculty and three members of the student body. The student members shall be members of the senior class in good standing and shall be chosen as follows: one by the Interfraternity Conference, one by the Honor Court, and one selected by the Executive Council of the student body. The student members shall be elected from the Junior Class during the latter part of the spring semester.

All reports called for from fraternities, societies, and clubs shall be made to the Dean of Students, who is *ex-officio* chairman of this committee.

B. *Social Fraternities*: The term "social fraternity" as used in these regulations shall include all chapters of national social fraternities on the campus, and all chapters of local fraternities organized and operated for the same general purposes and in the same general manner as chapters of national social fraternities.

1. *Any organization desiring faculty recognition as a social fraternity as above described shall comply with the following requirements*:
 - a. Within fifteen days after the opening of the fall semester, a list of all active members and pledges shall be submitted to the Committee on Fraternities, Societies, and Clubs.
 - b. The insignia of the organization shall be submitted to the committee for approval, so as to avoid confusion with the insignia of existing groups.
 - c. The organization shall have at least fifteen active members.

- d. A member of the faculty, who may or may not be a member of the organization, and who is approved by the Dean of Students, shall be appointed to act as its Adviser.
 - e. The organization shall be incorporated under the laws of Florida.
 - f. The organization shall have a definite, approved financial program.
 - g. Before petitioning a national fraternity for a charter, a local organization must first secure the permission of the Committee on Fraternities, Societies, and Clubs, and must have been recognized by the Committee for at least three years before applying for such permission. The consent of the Committee can be secured only by satisfying its members that the local organization is stable; that it has satisfactory scholastic, social, and moral standards; that the fraternity which it desires to petition is a desirable one; and that the fraternity field is not overcrowded.
2. *All Social Fraternities as above defined shall operate under the following regulations:*
- a. At the opening of the school year each fraternity operating a chapter house shall present a set of house rules to the Dean of Students and shall immediately report to him any subsequent changes in these rules.
 - b. The statutes of the State of Florida relative to occupants of fraternity houses are as follows:
 897. *Property exempt from taxation.* The following property shall be exempt from taxation:

Third. Such property of educational, literary, benevolent, charitable and scientific institutions within this State as shall be actually occupied and used by them solely for the purpose for which they have been or may be organized, but *property of such institutions which is rented wholly or in part and the rents, issues and profits only used by such institutions shall not be exempt from taxation*, nor shall any property held by them as an investment or for speculation be exempt from taxation.
 898. *Exemption of property of women's clubs, American Legion, fraternities, sororities, etc.* All property in this State now owned and exclusively used by the regularly constituted women's clubs of Florida, or American Legion, or the duly constituted chapters, inns, or other associations duly chartered by national college fraternities or national college sororities, located and existing at colleges and universities in the State of Florida at State institutions or duly chartered as such colleges or universities by the State of Florida, *used solely as their club house or home*, is hereby defined to mean such property as is contemplated by Section 1, of Article IX, of the Constitution of Florida and is hereby declared to be exempt from all taxation.
 - c. Soon after the close of each semester the Registrar shall publish the group scholastic averages of all the fraternities on the campus. The averages of both the initiated men and the pledges shall be computed, but each shall be computed separately. A fraternity may drop pledges as late as, but not later than, two weeks before the close of a semester without having their grades count in the final

average of its pledges, provided notice is immediately transmitted to the Registrar; but pledges dropped for poor scholarship may not be reinstated until the Registrar certifies that they have attained the general University average.

- d. A faculty cup is awarded to the fraternity which makes the highest average for the year, this average to be the *combined average of both members and pledges*.

C. *Social Societies*: All societies organized for social purposes shall be known as Social Societies and shall be subject to the following regulations:

1. Within sixty days after the opening of the fall semester, a list of all active members and pledges shall be submitted to the Committee on Fraternities, Societies, and Clubs.
2. The organization shall have both approved constitution and by-laws, which it shall file with the committee.
3. The insignia of the organization shall be submitted to the Committee for approval, so as to avoid confusion with the insignia of existing groups.
4. A member of the faculty, who may or may not be a member of the organization, shall be appointed to act as its Adviser. The name of the person so chosen shall be reported to the Dean of Students and approved by him.
5. The organization shall have a definite, approved financial program.

D. *All Other Professional, Scholastic, or Honorary Organizations, National or Local, Shall be Subject to the Following Regulations*:

1. Within ten days after the beginning of first and second semesters, a list of all active members and pledges shall be submitted to the Committee on Fraternities, Societies, and Clubs.
2. The organization shall have both approved constitution and by-laws, which it shall file with the Committee.
3. The insignia of the organization shall be submitted to the Committee for approval, so as to avoid confusion with the insignia of existing groups.
4. A member of the faculty, who may or may not be a member of the organization, shall be appointed to act as its Adviser. The name of the person so chosen shall be reported to the Dean of Students and approved by him.
5. The organization shall have a definite, approved financial program.
6. Before petitioning a national organization for a charter, a local organization must first secure the permission of the Committee on Fraternities, Societies, and Clubs, and must have been recognized by that Committee for at least three years before applying for such permission. The consent of the Committee can be secured only by satisfying its members that the local organization is stable; that it has satisfactory scholastic, social, and moral standards; that the organization which they desire to petition is a desirable one; and that the organization field is not overcrowded.

XX. HONOR SYSTEM

The following offenses against the honor code of the student body shall be dealt with by the Honor Court:

1. Cheating, giving or receiving any manner of aid in connection with a test or examination in any college course.
2. Stealing.
3. The passing of worthless checks.

If the Court finds the accused guilty, and he makes no immediate appeal, the Court shall then in its discretion either:

- a. Reprimand and warn the culprit and impose six penalty hours on a freshman, nine penalty hours on a sophomore, twelve penalty hours on a junior, and fifteen penalty hours on a senior, if the violation is not flagrant and it is the first offense, or,
- b. Reprimand and warn the culprit and impose fifteen penalty hours, if the culprit is a freshman and the violation is flagrant and willful, or,
- c. Suspend for not less than one semester and impose penalty hours as in Clause a of this section, if it is a clear case and the culprit pleads guilty and he is an upperclassman and it is the first offense, or,
- d. Suspend for not less than one year and impose penalty hours as in Clause a of this section, if the violation is flagrant and willful and the culprit pleads not guilty and it is the first offense, or,
- e. Expel, if it is the second offense.
- f. The Court may in the furtherance of justice amend the above penalties in extraordinary cases so that the penalties will not be unreasonably harsh, and the ends to be accomplished defeated.
- g. For the purposes of this section students shall be classified according to their period of residence at the University.

Decrees of the Honor Court are published for a period of one month on the University bulletin boards. The names of convicted students are not published; cases are referred to by number.

A student once expelled by a decree of the Honor Court may be readmitted only by vote of the Executive Council. In all cases, appeal from the decision of the Honor Court may be made to the President of the University, who may order a review of the procedure, or a rehearing *de novo*.

Copies of all decrees of the Honor Court shall be sent to the Registrar and to the Dean of Students.

XXI. WITHDRAWAL FROM THE UNIVERSITY

A student wishing to withdraw from the University during a semester shall secure the proper blank from the Registrar's office and shall have it signed by the authorities indicated thereon. A student withdrawing from the University during a semester and neglecting to have the blank properly executed will be given a grade of *E* on the courses for which he is registered and will be subject to the rule governing failures.

XXII. SCHOLARSHIPS AND LOAN FUNDS

All scholarships and loan funds controlled directly by the University shall be administered under the direction of the Committee on Scholarships and Loan Funds, of which the Dean of Students shall be ex-officio chairman.

The Committee makes periodic scholastic and conduct reports to the donors and administrators of all scholarships and loan funds. If a holder of a scholarship or loan fund makes an average for the year of less than C, or if he has been guilty of any serious breach of conduct, the Committee shall recommend to the donors that the student be deprived of the scholarship. In case the student falls below the required average on account of sickness or some other unavoidable cause, he should bring evidence of such to the attention of the Committee.

For further information concerning scholarships and loan funds, see the current issue of the *Bulletin of General Information*.

XXIII. REGISTRATION OF AUTOMOBILES

In general the University authorities discourage students owning and operating automobiles while in attendance at the University. While there is no prohibition of students having automobiles while in attendance at the University, the following regulations are enforced:

1. In case a student wishes to own and operate an automobile for more than one week, he must fill out a request card at the Registrar's office, for which he will be given a permit card. This card must be shown any proper University official on request.

2. Unless the student is over twenty-one years of age and self-supporting, the written permission of the student's parents or guardian must be filed with the request for permission to operate an automobile.

3. *Each student having an automobile in his possession at the University of Florida will be required to carry public liability and property damage insurance for not less than \$5000. Evidence of this insurance must be furnished the Registrar when the permit card is issued to the student.*

APPENDIX A

STANDARDS FOR OFF-CAMPUS ROOMING HOUSES AT THE
UNIVERSITY OF FLORIDA

The Dean of Students keeps in close touch with off-campus rooming houses, and has formulated the following regulations:

1. All houses shall be subject to inspection by the Committee on Off-Campus Rooming Houses.
2. Students living in off-campus rooming houses shall be subject to the same regulations in matters of conduct as those living in the dormitories.
3. It is expected that the householder of an acceptable house shall report to the office of the Dean of Students any general or frequent infringement of regulations on the part of the students in the house.
4. To be desirable, a room should have a minimum content of 600 cubic feet of air space per occupant and a minimum size of 7x11x8 for one occupant, or 15x10x8 for two occupants.
5. The room should have at least two windows opening both at top and bottom and fully screened. Cross ventilation should be provided. Facilities should be provided sufficient to furnish proper reading light in all corners of the room.
6. Access to the bath should be possible without passing through other bedrooms, living room, or kitchen.
7. There should be at least one bathroom with toilet, lavatory, tub or shower for every eight persons in the house. Each bathroom should have at least one window with outside exposure. The floor should be of easily cleaned, non-absorbent material. The bathroom should be properly heated: if an instantaneous heater is used for heating water, it should have a vent stack through the roof or into the attic. Drop lights should NOT hang over the tub. Hot water should be provided when needed.
8. Furnace heat is desirable; the minimum temperature of the room should be 68°F. When furnace heat is not possible, facilities for heating in other ways, EXCLUSIVE OF KEROSENE AND GAS HEATERS having no outside flue, should be provided. The cost of heating the room should be included in the room rent.
9. There should be provided for each student two or three good-sized drawers, one mirror measuring at least the equivalent of 22"x28", a dustless closet or wardrobe, a study table at least 27"x40" with drop light, one straight chair for study and one comfortable chair, a single bed, and a good mattress, of hair or felt, protected with a washable cover.
10. The householder should be responsible for cleaning each room daily. The student should assist in keeping rooms clean. The householder should see that the lavatories are thoroughly cleaned daily, and that toilets and floors are kept clean. Where tubs are used, the house-

holder should furnish some good bathtub cleanser and insist, if necessary, that the students use it after each bath.

11. The family of the household, as well as guests, should be willing to adapt themselves to rules governing study hours of students.
12. Before registering in the Summer Session students are required to sign a written pledge that they will not room in an off-campus rooming house if both men and women are accommodated in the house. This rule shall not apply to married couples.

APPENDIX B

DORMITORY RULES AND REGULATIONS

The dormitories are in charge of a Superintendent of Janitors and Laborers and a competent housekeeper with maids who, with the assistance of monitors, is responsible for the safe-keeping of all property, the sanitary condition of the dormitories, and the conduct of the student-roomers. All rooms will be thoroughly cleaned every morning and a report of any breakage will be made. The monitors shall be upperclassmen. One will be assigned to each section, and one of his duties shall be to report any breach of discipline to the Dean of Students.

Dormitory rooms are leased to students for a period of not less than one semester. Special permission may be granted for substitution by other students. Only in case of resignation will any part of the rent be refunded. A student not desiring to keep his room for the second semester must notify the Business Manager before the Christmas holidays.

For the information of those students living in the dormitories, the following regulations are posted in every room:

1. *Study Periods:* 7:30 to 9:30 p. m. (except Saturdays and Sundays).
2. Students must be in their rooms each night by 11:30 p. m. Lights must be out by 12:00 m. Permission to be out after hours must be approved by the monitor in charge.
3. Each room is provided with a waste basket. After buildings have been put in order no trash will be allowed on floors of rooms or hall.
4. Each student is expected to have his clothes and personal effects in order at the hours stated above.
5. All damage done in rooms or sections will be noted by housekeepers and the cost of repairs will be deducted from the student's deposit fee. AN EXTRA CHARGE WILL BE MADE for the use of electric fans or stoves.
6. Each room is provided with a certain amount of furniture. No change of room or exchange of furniture will be allowed without permission of the housekeeper.
7. Clean bedlinen must be provided by each student at least once a week. Changes will be made Saturday morning.
8. No spitting in rooms or halls will be tolerated.

9. Pasting or nailing pictures to the wall will not be permitted; pictures must be hung from picture moulding. A charge of fifty cents will be made for each violation of this regulation reported by the housekeeper.

10. Students are required to hand to the housekeeper receipts for room rent. No refund will be allowed for less than one month's absence. Students leaving the dormitory must check out to the housekeeper.

11. Rough-housing will not be tolerated.

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The University Record

of the

University of Florida

Bulletin of

Freshman Week

Program



*Preserve this program. Bring it with you to Gainesville.
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106 Peabody Hall

The University Record comprises:

The Reports of the President and the Board of Control, the Bulletin of General Information, the annual announcements of the individual colleges of the University, announcements of special courses of instruction, and reports of the University Officers.

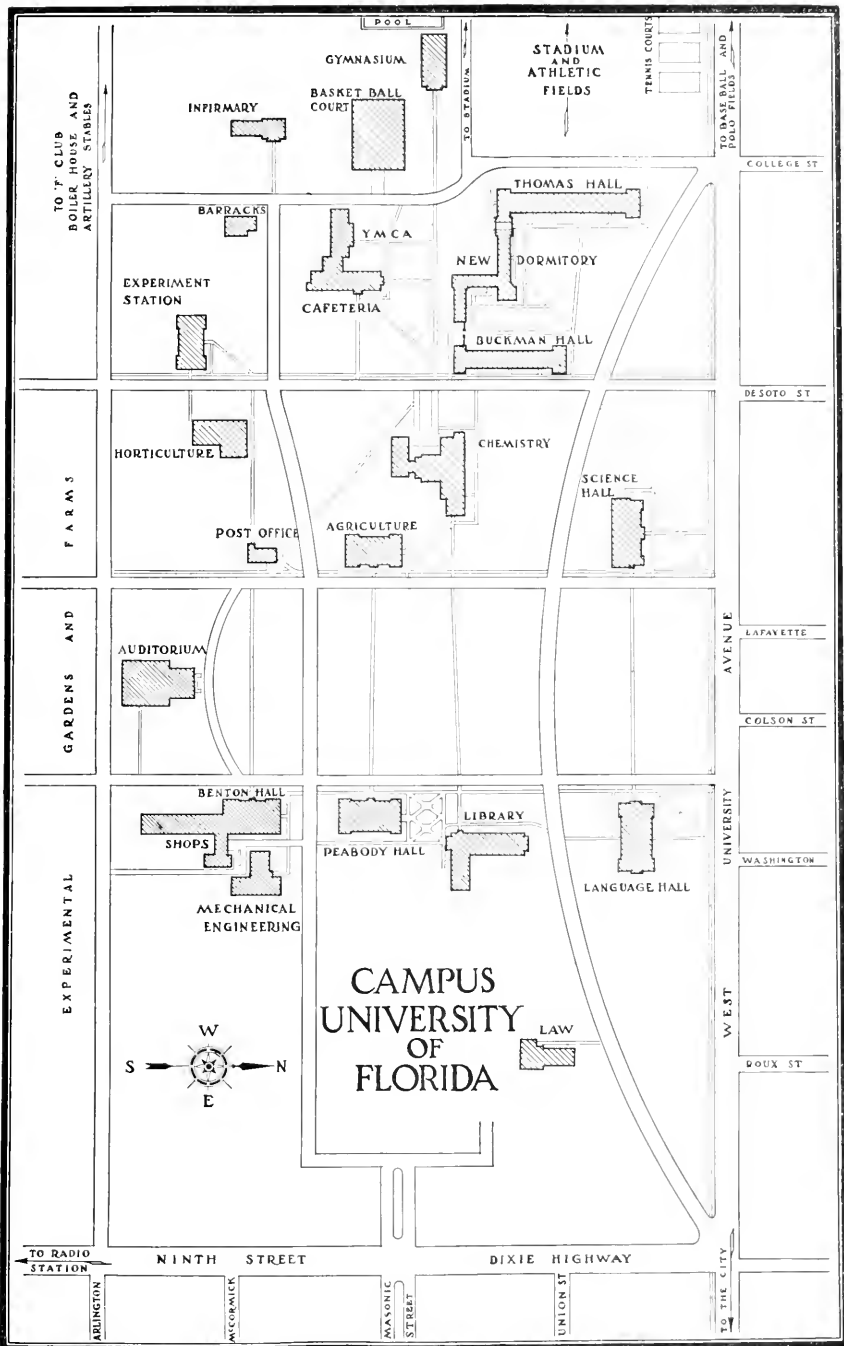
These bulletins will be sent gratuitously to all persons who apply for them. The applicant should specifically state which bulletin or what information is desired. Address

THE REGISTRAR
University of Florida
Gainesville, Florida

Research Publications.—Research publications will contain results of research work. Papers are published as separate monographs numbered in several series.

There is no free mailing list of these publications. Exchanges with institutions are arranged by the University Library. Correspondence concerning such exchanges should be addressed to the University Librarian, University of Florida, Gainesville, Florida. The issue and sale of all these publications is under the control of the Committee on Publications. Requests for individual copies, or for any other copies not included in institutional exchanges, should be addressed to the University Library, University of Florida, Gainesville, Florida.

The Committee on University Publications
University of Florida
Gainesville, Florida



WELCOME TO THE FRESHMEN

It is a genuine pleasure to welcome new students to the campus of the University of Florida, because we know that here are illimitable opportunities if the newcomer will seize them.

It has been often said no institution ever educated anybody. Opportunities may be provided, but students must avail themselves of these opportunities by their own initiative and industry. We realize that many students are perplexed with problems at the beginning and that upon a solution of these depends their happiness and success at the University. The success or failure of your career may depend upon your experience in your first year at this university. Every possible assistance is provided for a solution of the problems that confront you. More especially, the Office of the Dean of Students undertakes to counsel with those who are in need of help and advice.

We hope that each student will find his sojourn here to be one of industry, happiness, and success.

JOHN J. TIGERT,
President of the University.

In extending a cordial welcome to incoming students of the University of Florida, the upperclassmen wish you every success. New experiences, new pleasures and new tasks await you. May you make the years spent here years of accomplishment, pleasant recreation, and real self-development.

Though the University of Florida is little more than a quarter of a century old, the Florida men who have gone before you have established traditions that form the background of your college life. It is your privilege and your duty to maintain and enrich the traditions that have come down through the years to you, so that your successors may receive an even richer heritage. The Honor System of the University of Florida is the keystone of our student government and our most cherished tradition. Be diligent to acquaint yourselves with it, that you may safeguard yourselves from unintentional violations of the Honor Code. The Honor System is not perfect, nor will it ever be; but in your hands you have the power to strengthen it by proving yourselves worthy of it.

The Student Body offers you a broad field of extra-curricular endeavor. We sincerely hope that you will avail yourselves of the opportunity to participate in any activity that may appeal to you, bearing in mind that your scholastic work is of primary importance.

WILLIAM A. HERIN,
President of the Student Body.

GENERAL INSTRUCTIONS

1. All men planning to enter the Freshman Class must be present for the first session at 10:00 A.M. on Monday, September 12, in the Auditorium. Counselors and student leaders will be introduced to each group at this meeting.

2. Be sure to read carefully the description of all activities for the week.

3. The program for each college is on a separate page. Follow carefully the program for your college.

4. Attendance will be checked at each meeting. Absences will be counted as class cuts. The University authorities reserve the right to drop from the rolls any student absent from any scheduled activity. A late registration fee will be charged all students not present at the 10:00 o'clock meeting Monday morning.

5. Locate your counselor's office at the earliest possible time, and call upon him for any help you need.

6. The activities of the week are designed to help you get a good start; take part in them in the right spirit, and you will be repaid for the effort.

7. The Office of the Dean of Students is in Room 106, Peabody Hall. You will be welcome here at any time during your stay at the University. This office exists for the purpose of helping college men find solutions for difficult problems.

8. Don't hunt trouble. Endeavor to fit yourself into college life with the least amount of friction. You will find that your instructors really desire to help you and are interested in your problems. Feel free to ask your student leader or counselors questions about matters pertaining to your schedule and courses.

ACTIVITIES

One of the primary purposes of Freshman Week is to give you an opportunity to meet, outside of the classroom, the various faculty members under whom you are to work and the student body leaders with whom you are to live. The various meetings scheduled will provide for a large number of contacts. Your student leader will be glad, however, to arrange a personal conference with any other faculty members you would like to meet.

REGISTRATION:

Registration for all freshmen will take place in the New Gym. In registering, you must be very careful to get class cards, sections and courses of study exactly correct. Detailed instruction will be given in filling out record cards before registration. Do not hesitate to ask questions of your student leader or counselors on matters pertaining to your registration.

PHYSICAL EXAMINATION:

Physical examinations will be made in the Infirmary. You will be given a thorough physical examination by competent physicians. You should make careful note of any physical defect pointed out and follow instructions given.

INTERVIEW WITH COUNSELORS:

The purpose of this interview is to supply personal information which will be valuable to the University authorities in helping you to become better adjusted to university life. Your counselor will be in his office for the purpose of talking to you and will take pleasure in advising you concerning troublesome matters.

STUDENT ACTIVITY PERIOD:

The Student Activity Period is in charge of outstanding student leaders of the student body who have proved successful in university life. They will give you information on all extra-curricula activities. You will do well to give attention to this period.

ENGINEERING QUALIFYING TEST:

All students applying for admission to the College of Engineering are required to take a qualifying test before being admitted. The test is on basic subjects which are necessary for the engineering course. The purpose is to test accurately your training in these subjects in order to avoid registering in engineering, students whose lack of training would render failure almost certain.

ENGLISH PLACEMENT TEST:

The English Placement Test covers foundation work in the use of English. Such matters as spelling, capitalization, punctuation, correct use of verb and noun forms, and the discrimination in the meaning of words are included. Those students who show themselves especially deficient in this work will be required to take an extra semester of work along the lines indicated before being permitted to register for English 101. No college credit will be given for this extra semester of work. It is important that you be at your best for this test. The record you make will determine your classification in the English Department. Bring TWO PENCILS. Note books will be furnished.

PSYCHOLOGICAL TEST:

It is important that you be in the best of condition when you take the Psychological Test. Your record in this test will be used by your instructors and your dean during your college career, and perhaps by your employer after you leave college. Bring TWO PENCILS.

CONFERENCE WITH THE DEAN:

At the conference with your dean you should determine, as far as this session is concerned, whether or not you will remain in the college you selected at the beginning of Freshman Week. If you want to make a change after this explanation of the purposes and requirements of the college, you will need to consult your counselor and student leader before joining another group.

RECREATION:

The University swimming pool will be open each day during Freshman Week, and you are invited to use it during the recreation period.

LIBRARY:

The Library is a very systematic as well as efficient organization, and you will need to know at once how to use it to the best advantage. A great deal of your reference work will be done in the Library. There will be demonstrations in the use of the library given to your group.

ORGANIZATION PERIOD IN THE AUDITORIUM:

It is very important that every man be present in the Auditorium at 10:00 A.M. on Monday, September 12. At this time the groups will be organized and student leaders will be assigned. As a rule, twenty-five men will be placed in each group. Students coming late will be placed at a disadvantage, as they will have to be put into groups that are already full.

SPECIAL ASSEMBLIES:

There are so many things about the University which a freshman needs to know as early as possible in his college career that we find it necessary to have a special assembly for freshmen once each month. At this time such topics as the Honor System, class absences, University regulations, fraternities, etc., will be discussed.

All freshmen are required to attend these assemblies, and they are scheduled at a time when there will be no conflicts with other classes. The roll will be taken and absences will be treated as class absences.

COLLEGE NIGHT:

In order that the schedule of activities during Freshman Week may not seem too heavy, one night of fun is planned. The program of College Night will be composed of music, songs, yells, and a number of skits put on by University talent. This program is prepared and sponsored by the O.D.K. Fraternity. Any member of the Class of '36 who has a skit ready is invited to give it on College Night.

VOCATIONAL GUIDANCE READING AND EXHIBIT ROOM (114 PEABODY HALL):

During Freshman Week, there will be maintained a vocational guidance reading room with an exhibit of Vocational Charts in Room 114 Peabody Hall. Freshmen who have not decided on their life work are invited to avail themselves of these facilities. The Director of the Bureau of Vocational Guidance will be in his office (110 Peabody Hall) during Freshman Week for vocational interviews. Those freshmen who have previously taken the vocational test are especially urged to see the Director for the results.

TO FRESHMEN INTERESTED IN CHEMISTRY:

Gamma Sigma Epsilon, national honorary chemical fraternity, will sponsor a program which will be of real interest to all freshmen who intend to major in chemistry, and particularly to all future chemical engineers, pre-medical students, pharmacists, and chemists. The program will be presented on Friday night, September 16, at 203 Benton Hall. Watch the *Orange and Blue Bulletin* during Freshman Week.

PROGRAM OF ACTIVITIES

COLLEGE OF ARTS AND SCIENCES

A.B. Groups 1, 2, 3, 4

MONDAY, SEPTEMBER 12, 1932

10:00-11:00 A.M. Organization—Auditorium
11:00-12:00 A.M. President Tigert's Address—Auditorium
1:00- 2:00 P.M. Open
2:00- 3:00 P.M. English Placement Test. Group 1, Language Hall 210
Groups 2, 3, 4, Science Hall 101
3:00- 4:00 P.M. Preliminary Registration. (Groups meet same as above.)
7:00- 9:00 P.M. Conference with Dean Wilson—Auditorium

TUESDAY, SEPTEMBER 13, 1932

8:30- 9:00 A.M. Assembly—Auditorium
9:00-10:00 A.M. *Meet Counselor
10:00-11:00 A.M. *Meet Counselor
11:00-12:00 A.M. *Meet Counselor
1:00- 2:00 P.M. Open
2:00- 4:00 P.M. *Meet Counselor
7:00- 9:00 P.M. College Night—Auditorium

WEDNESDAY, SEPTEMBER 14, 1932

8:30- 9:00 A.M. Assembly—Auditorium
9:00-10:00 A.M. **Physical Examination—Infirmary
10:00-12:00 A.M. Open
1:00- 4:00 P.M. Registration—New Gym

THURSDAY, SEPTEMBER 15, 1932

8:30- 9:00 A.M. Assembly—Auditorium
9:00-11:00 A.M. Open
11:00-12:00 A.M. Student Activity Period—Auditorium
1:00- 2:00 P.M. Open
2:00- 4:00 P.M. Library Information—Library Building. Groups 1, 2, 3, 4

FRIDAY, SEPTEMBER 16, 1932

8:30- 9:00 A.M. Assembly—Auditorium

SATURDAY, SEPTEMBER 17, 1932

8:30- 9:00 A.M. Assembly—Auditorium
9:00-12:00 A.M. Psychological Test—Auditorium

*For place of meeting see page 417.

**Each group will report to Military Offices immediately upon completion of Physical Examination.

FRESHMEN MUST BE READY FOR WORK MONDAY, 10 A.M., SEPT. 12

PROGRAM OF ACTIVITIES

COLLEGE OF ARTS AND SCIENCES

B. S. Groups 5, 6, 7, 8
Pre-Med. Groups 9, 10

MONDAY, SEPTEMBER 12, 1932

10:00-11:00 A.M. Organization—Auditorium
11:00-12:00 A.M. President Tigert's Address—Auditorium
1:00- 2:00 P.M. Open
2:00- 3:00 P.M. English Placement Test. Groups 5, 6, 7, Chemistry 112
Groups 8, 9, Language Hall 109
Group 10, Chemistry 212
3:00- 4:00 P.M. Preliminary Registration. (Groups meet same as above.)
7:00- 9:00 P.M. Conference with Dean Wilson—Auditorium

TUESDAY, SEPTEMBER 13, 1932

8:30- 9:00 A.M. Assembly—Auditorium
9:00-10:00 A.M. *Meet Counselor
10:00-11:00 A.M. *Meet Counselor
11:00-12:00 A.M. *Meet Counselor
1:00- 2:00 P.M. Open
2:00- 4:00 P.M. *Meet Counselor
7:00- 9:00 P.M. College Night—Auditorium

WEDNESDAY, SEPTEMBER 14, 1932

8:30- 9:00 A.M. Assembly—Auditorium
9:00-10:00 A.M. Open
10:00-11:00 A.M. **Physical Examination—Infirmary. Groups 5, 6, 7
11:00-12:00 A.M. **Physical Examination—Infirmary. Groups 8, 9, 10
1:00- 4:00 P.M. Registration—New Gym

THURSDAY, SEPTEMBER 15, 1932

8:30- 9:00 A.M. Assembly—Auditorium
9:00-11:00 A.M. Open
11:00-12:00 A.M. Student Activity Period—Auditorium
1:00- 4:00 P.M. Open

FRIDAY, SEPTEMBER 16, 1932

8:30- 9:00 A.M. Assembly—Auditorium
9:00-11:00 A.M. Library Information. Groups 5, 6, 7, 8, 9, 10, Library Building

SATURDAY, SEPTEMBER 17, 1932

8:30- 9:00 A.M. Assembly—Auditorium
9:00-12:00 A.M. Psychological Test—Auditorium

*For place of meeting see page 417.

**Each group will report to Military Offices immediately upon completion of Physical Examination.

FRESHMEN MUST BE READY FOR WORK MONDAY, 10 A.M., SEPT. 12

PROGRAM OF ACTIVITIES

COLLEGE OF AGRICULTURE

Groups 11, 12, 13

MONDAY, SEPTEMBER 12, 1932

10:00-11:00 A.M.	Organization—Auditorium
11:00-12:00 A.M.	President Tigert's Address—Auditorium
1:00- 2:00 P.M.	Open
2:00- 3:00 P.M.	English Placement Test. Group 11, Agriculture 114 Groups 12, 13, Peabody 4
3:00- 4:00 P.M.	Preliminary Registration. (Groups meet same as above.)
7:00- 9:00 P.M.	Conference with Dean Floyd—Agriculture 104

TUESDAY, SEPTEMBER 13, 1932

8:30- 9:00 A.M.	Assembly—Auditorium
9:00-10:00 A.M.	**Physical Examination—Infirmary
10:00-11:00 A.M.	**Physical Examination—Infirmary
11:00-12:00 A.M.	*Meet Counselor
1:00- 2:00 P.M.	Open
2:00- 4:00 P.M.	*Meet Counselor
7:00- 9:00 P.M.	College Night—Auditorium

WEDNESDAY, SEPTEMBER 14, 1932

8:30- 9:00 A.M.	Assembly—Auditorium
9:00-10:00 A.M.	*Meet Counselor
10:00-11:00 A.M.	*Meet Counselor
11:00-12:00 A.M.	*Meet Counselor
2:00- 4:00 P.M.	Library Information. Groups 11, 12, 13, Library Building

THURSDAY, SEPTEMBER 15, 1932

8:30- 9:00 A.M.	Assembly—Auditorium
9:00-11:00 A.M.	Registration—New Gym
11:00-12:00 A.M.	Student Activity Period—Auditorium
1:00- 4:00 P.M.	Open

FRIDAY, SEPTEMBER 16, 1932

8:30- 9:00 A.M.	Assembly—Auditorium
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SATURDAY, SEPTEMBER 17, 1932

8:30- 9:00 A.M.	Assembly—Auditorium
9:00-12:00 A.M.	Psychological Test—Auditorium

*For place of meeting see page 417.

**Each group will report to Military Offices immediately upon completion of Physical Examination.

FRESHMEN MUST BE READY FOR WORK MONDAY, 10 A.M., SEPT. 12

PROGRAM OF ACTIVITIES

SCHOOL OF ARCHITECTURE AND ALLIED ARTS

Group 14

MONDAY, SEPTEMBER 12, 1932

10:00-11:00 A.M.	Organization—Auditorium
11:00-12:00 A.M.	President Tigert's Address—Auditorium
1:00- 2:00 P.M.	Open
2:00- 3:00 P.M.	English Placement Test. Group 14, Science Hall 111
3:00- 4:00 P.M.	Information Cards. Group meets same as above
7:00- 9:00 P.M.	Conference with Director Weaver—Peabody Hall 201

TUESDAY, SEPTEMBER 13, 1932

8:30- 9:00 A.M.	Assembly—Auditorium
9:00-10:00 A.M.	*Meet Counselor
10:00-11:00 A.M.	*Meet Counselor
11:00-12:00 A.M.	**Physical Examination—Infirmary
1:00- 4:00 P.M.	Open
7:00- 9:00 P.M.	College Night—Auditorium

WEDNESDAY, SEPTEMBER 14, 1932

8:30- 9:00 A.M.	Assembly—Auditorium
9:00-10:00 A.M.	*Meet Counselor
10:00-11:00 A.M.	*Meet Counselor
11:00-12:00 A.M.	Student Activity Period—Auditorium
1:00- 4:00 P.M.	Open

THURSDAY, SEPTEMBER 15, 1932

8:30- 9:00 A.M.	Assembly—Auditorium
9:00-10:00 A.M.	Registration—New Gym
10:00-12:00 A.M.	Library Information. Group 14, Library Building
1:00- 4:00 P.M.	Open

FRIDAY, SEPTEMBER 16, 1932

8:30- 9:00 A.M.	Assembly—Auditorium
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SATURDAY, SEPTEMBER 17, 1932

8:30- 9:00 A.M.	Assembly—Auditorium
9:00-12:00 A.M.	Psychological Test—Auditorium

*For place of meeting see page 417.

**Each group will report to Military Offices immediately upon completion of Physical Examination.

FRESHMEN MUST BE READY FOR WORK MONDAY, 10 A.M., SEPT. 12

PROGRAM OF ACTIVITIES

COLLEGE OF COMMERCE AND JOURNALISM

Journalism Groups 15, 16

MONDAY, SEPTEMBER 12, 1932

- 10:00-11:00 A.M. Organization—Auditorium
11:00-12:00 A.M. President Tigert's Address—Auditorium
1:00- 2:00 P.M. Open
2:00- 3:00 P.M. English Placement Test. Group 15, Chemistry 212
Group 16, Agriculture 104
3:00- 4:00 P.M. Preliminary Registration. (Groups meet same as above.)
7:00- 9:00 P.M. Conference with Dean Matherly—Law College Court Room

TUESDAY, SEPTEMBER 13, 1932

- 8:30- 9:00 A.M. Assembly—Auditorium
9:00-10:00 A.M. *Meet Counselor
10:00-11:00 A.M. *Meet Counselor
11:00-12:00 A.M. *Meet Counselor
1:00- 2:00 P.M. Open
2:00- 3:00 P.M. **Physical Examination. Groups 15, 16, Infirmary
3:00- 4:00 P.M. Open
7:00- 9:00 P.M. College Night—Auditorium

WEDNESDAY, SEPTEMBER 14, 1932

- 8:30- 9:00 A.M. Assembly—Auditorium
9:00-10:00 A.M. *Meet Counselor
10:00-11:00 A.M. *Meet Counselor
11:00-12:00 A.M. Student Activity Period—Auditorium
1:00- 4:00 P.M. Open

THURSDAY, SEPTEMBER 15, 1932

- 8:30- 9:00 A.M. Assembly—Auditorium
9:00-11:00 A.M. Open
11:00-12:00 A.M. Registration—New Gym
1:00- 4:00 P.M. Registration—New Gym

FRIDAY, SEPTEMBER 16, 1932

- 8:30- 9:00 A.M. Assembly—Auditorium
9:00-12:00 A.M. Open
2:00- 4:00 P.M. Library Information. Groups 15, 16, Library Building

SATURDAY, SEPTEMBER 17, 1932

- 8:30- 9:00 A.M. Assembly—Auditorium
9:00-12:00 A.M. Psychological Test—Auditorium

*For place of meeting see page 417.

**Each group will report to Military Offices immediately upon completion of Physical Examination.

FRESHMEN MUST BE READY FOR WORK MONDAY, 10 A.M., SEPT. 12

PROGRAM OF ACTIVITIES

COLLEGE OF COMMERCE AND JOURNALISM

Pre Law Group 17
Pre-Engineering Group 18
Groups 19, 20, 21, 22, 23

MONDAY, SEPTEMBER 12, 1932

10:00-11:00 A.M. Organization—Auditorium
11:00-12:00 A.M. President Tigert's Address—Auditorium
1:00- 2:00 P.M. Open
2:00- 3:00 P.M. English Placement Test. Group 17, Agriculture 104
Groups 18, 19, Language 211
Groups 20, 21, Law 105
Groups 22, 23, Law 204
3:00- 4:00 P.M. Preliminary Registration. (Groups meet same as above.)
7:00- 9:00 P.M. Conference with Dean Matherly—Law College Court Room

TUESDAY, SEPTEMBER 13, 1932

8:30- 9:00 A.M. Assembly—Auditorium
9:00-10:00 A.M. *Meet Counselor
10:00-11:00 A.M. *Meet Counselor
11:00-12:00 A.M. *Meet Counselor
1:00- 2:00 P.M. Open
2:00- 3:00 P.M. **Physical Examination. Groups 17, 18, Infirmary
3:00- 4:00 P.M. **Physical Examination. Groups 19, 20, 21, 22, 23, Infirmary
7:00- 9:00 P.M. College Night—Auditorium

WEDNESDAY, SEPTEMBER 14, 1932

8:30- 9:00 A.M. Assembly—Auditorium
9:00-11:00 A.M. Library Information. Groups 19, 20, 21, 22, 23, Library Building
11:00-12:00 A.M. Student Activity Period—Auditorium
1:00- 2:00 P.M. Open
2:00- 3:00 P.M. *Meet Counselor
3:00- 4:00 P.M. *Meet Counselor

THURSDAY, SEPTEMBER 15, 1932

8:30- 9:00 A.M. Assembly—Auditorium
9:00-11:00 A.M. Open
11:00-12:00 A.M. Registration—New Gym
1:00- 4:00 P.M. Registration—New Gym

FRIDAY, SEPTEMBER 16, 1932

8:30- 9:00 A.M. Assembly—Auditorium
9:00-12:00 A.M. Open
2:00- 4:00 P.M. Library Information. Groups 17, 18, Library Building

SATURDAY, SEPTEMBER 17, 1932

8:30- 9:00 A.M. Assembly—Auditorium
9:00-12:00 A.M. Psychological Test—Auditorium

*For place of meeting see page 417.

**Each group will report to Military Offices immediately upon completion of Physical Examination.

FRESHMEN MUST BE READY FOR WORK MONDAY, 10 A.M., SEPT. 12

PROGRAM OF ACTIVITIES

COLLEGE OF EDUCATION

Groups 24, 25, 26, 27

MONDAY, SEPTEMBER 12, 1932

10:00-11:00 A.M.	Organization—Auditorium
11:00-12:00 A.M.	President Tigert's Address—Auditorium
1:00- 2:00 P.M.	Open
2:00- 3:00 P.M.	English Placement Test. Groups 24, 25, 26, 27, Peabody Hall 205
3:00- 4:00 P.M.	Preliminary Registration. (Groups meet same as above.)
7:00- 9:00 P.M.	Conference with Dean Norman—Peabody Hall 205

TUESDAY, SEPTEMBER 13, 1932

8:30- 9:00 A.M.	Assembly—Auditorium
9:00-10:00 A.M.	*Meet Counselor
10:00-11:00 A.M.	*Meet Counselor
11:00-12:00 A.M.	*Meet Counselor
1:00- 2:00 P.M.	Open
2:00- 4:00 P.M.	Library Information. Groups 24, 25, 26, 27, Library Building
7:00- 9:00 P.M.	College Night—Auditorium

WEDNESDAY, SEPTEMBER 14, 1932

8:30- 9:00 A.M.	Assembly—Auditorium
9:00-10:00 A.M.	*Meet Counselor
10:00-12:00 A.M.	**Physical Examination. Groups 24, 25, 26, 27, Infirmary
1:00- 2:00 P.M.	Open
2:00- 4:00 P.M.	Registration—New Gym

THURSDAY, SEPTEMBER 15, 1932

8:30- 9:00 A.M.	Assembly—Auditorium
9:00-11:00 A.M.	Open
11:00-12:00 A.M.	Student Activity Period—Auditorium
1:00- 4:00 P.M.	Open

FRIDAY, SEPTEMBER 16, 1932

8:30- 9:00 A.M.	Assembly—Auditorium
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SATURDAY, SEPTEMBER 17, 1932

8:30- 9:00 A.M.	Assembly—Auditorium
9:00-12:00 A.M.	Psychological Test—Auditorium

*For place of meeting see page 417.

**Each group will report to Military Offices immediately upon completion of Physical Examination.

FRESHMEN MUST BE READY FOR WORK MONDAY, 10 A.M., SEPT. 12

PROGRAM OF ACTIVITIES

COLLEGE OF ENGINEERING
Groups 28, 29, 30, 31, 32

MONDAY, SEPTEMBER 12, 1932

10:00-11:00 A.M. Organization—Auditorium
11:00-12:00 A.M. President Tigert's Address—Auditorium
1:00- 2:00 P.M. Open
2:00- 3:00 P.M. English Placement Test. Groups 28, 29, 30, 31, 32,
Benton 203
3:00- 4:00 P.M. Preliminary Registration. (Groups meet same as above.)
7:00- 9:00 P.M. Conference with Dean Van Leer—Benton 203

TUESDAY, SEPTEMBER 13, 1932

8:30- 9:00 A.M. Assembly—Auditorium
9:00-10:00 A.M. *Meet Counselor
10:00-11:00 A.M. *Meet Counselor
11:00-12:00 A.M. *Meet Counselor
1:00- 2:00 P.M. Open
2:00- 4:00 P.M. *Meet Counselor
7:00- 9:00 P.M. College Night—Auditorium

WEDNESDAY, SEPTEMBER 14, 1932

8:30- 9:00 A.M. Assembly—Auditorium
9:00-10:00 A.M. Qualifying Test. Groups 28, 29, 30, 31, 32, Benton 203
10:00-11:00 A.M. Open
11:00-12:00 A.M. Student Activity Period—Auditorium
1:00- 2:00 P.M. **Physical Examination—Infirmary
2:00- 3:00 P.M. **Physical Examination—Infirmary

THURSDAY, SEPTEMBER 15, 1932

8:30- 9:00 A.M. Assembly—Auditorium
9:00-10:00 A.M. Open
10:00-12:00 A.M. Library Information. Groups 28, 29, 30, 31, 32, Library
Building
1:00- 2:00 P.M. Open
2:00- 4:00 P.M. Registration—New Gym

FRIDAY, SEPTEMBER 16, 1932

8:30- 9:00 A.M. Assembly—Auditorium

SATURDAY, SEPTEMBER 17, 1932

8:30- 9:00 A.M. Assembly—Auditorium
9:00-12:00 A.M. Psychological Test—Auditorium

*For place of meeting see page 417.

**Each group will report to Military Offices immediately upon completion of Physical Examination.

FRESHMEN MUST BE READY FOR WORK MONDAY, 10 A.M., SEPT. 12

PROGRAM OF ACTIVITIES

COLLEGE OF PHARMACY
Group 33

MONDAY, SEPTEMBER 12, 1932

10:00-11:00 A.M. Organization—Auditorium
11:00-12:00 A.M. President Tigert's Address—Auditorium
1:00- 2:00 P.M. Open
2:00- 3:00 P.M. English Placement Test. Group 33, Science Hall 111
3:00- 4:00 P.M. Preliminary Registration. (Groups meet same as above.)
7:00- 9:00 P.M. Conference with Dean Leigh—Chemistry 212

TUESDAY, SEPTEMBER 13, 1932

8:30- 9:00 A.M. Assembly—Auditorium
9:00-10:00 A.M. *Meet Counselor
10:00-11:00 A.M. *Meet Counselor
11:00-12:00 A.M. **Physical Examination. Group 33, Infirmary
1:00- 2:00 P.M. Open
7:00- 9:00 P.M. College Night—Auditorium

WEDNESDAY, SEPTEMBER 14, 1932

8:30- 9:00 A.M. Assembly—Auditorium
9:00-10:00 A.M. *Meet Counselor
10:00-11:00 A.M. *Meet Counselor
11:00-12:00 A.M. *Meet Counselor
1:00- 4:00 P.M. Open

THURSDAY, SEPTEMBER 15, 1932

8:30- 9:00 A.M. Assembly—Auditorium
9:00-11:00 A.M. Open
11:00-12:00 A.M. Student Activity Period—Auditorium
1:00- 2:00 P.M. Open
2:00- 4:00 P.M. Library Information. Group 33, Library Building
4:00- 5:00 P.M. Registration—New Gym

FRIDAY, SEPTEMBER 16, 1932

8:30- 9:00 A.M. Assembly—Auditorium

SATURDAY, SEPTEMBER 17, 1932

8:30- 9:00 A.M. Assembly—Auditorium
9:00-12:00 A.M. Psychological Test—Auditorium

*For place of meeting see page 417.

**Each group will report to Military Offices immediately upon completion of Physical Examination.

FRESHMEN MUST BE READY FOR WORK MONDAY, 10 A.M., SEPT. 12

Group	College	Counselor	Office	Asst. Counselor	Room	Student Leader	Group
1	A&S (A.B.)	DeBryn, J. W.	A. Studio	Fifield, Harry	A. Studio	Pulfrey, C. W.	1
2	" "	Little, W. A.	P. 203	Young, Jack	P. 205	Anderson, George	2
3	" "	Williams, O.	P. 114	Oberdorfer, D.	P. 101	Chapman, Fielding	3
4	" "	Glunt, J. D.	L. 107	Embry, Hugh	L. 109	Vought, W. W.	4
5	A&S (B.S.)	Kokomoor, F. W.	M. 212	Cody, Jim	M. 213	Gilbert, Fred	5
6	" "	McInnis, S. E.	P. 108	McDowell, L. G.	P. 107	Lewis, Randolph	6
7	" "	Pirenian, Z. M.	P. 9	Berg, Henry	P. 7	Capitano, N.	7
8	" "	Pollard, C. B.	C. 130-B	Duffy, Owen	C. 212	Essary, E. M.	8
9	" (P. Med.)	Byers, C. F.	S. 108	Sadler, G. G.	S. 101	York, D. B.	9
10	" "	Sherman, H. B.	S. 109	Johnson, Steve	S. 111	Harris, Archie	10
11	Ag.	Abbott, C. E.	Ag. 303-2	Burner, H. F.	Ag. 303	Lettinger, Bob	11
12	" "	Hamilton, H. G.	He. 201	Crabtree, R.	He. 215	McClure, J. T.	12
13	" "	Senn, P. H.	Ag. 303	Bissett, Arthur	Ag. 304	Howell, Wynn	13
14	Arch.	June, H. N.	P. 204	McCarthy, W. H.	P. 201	Growell, J. M.	14
15	C&J	Ernie, E. J.	L. 5	Norton, Howard	L. 8	Leatherwood, D.	15
16	" "	Lowry, W. L.	Bu. 203	Gillette, G.	Bu. 204	Jackson, E. L.	16
17	" "	Chace, J. E.	P. 12	Sample, J. W.	P. 11	Whichard, H. W.	17
18	" "	Dykman, Howard	L. 202	Pillsbury, D. A.	L. 203	Turner, A. L.	18
19	" "	Seaglione, P. C.	Bu. 103	Brown, P. M.	Bu. 103	Coboe, R. W.	19
20	" "	Atwood, R. S.	L. 202-A	Fipse, F. P.	L. 204	Bergman, H. R.	20
21	" "	Hurst, H. C.	Bu. 302	Buchanan, J. E.	Bu. 301	Dasher, Julian	21
22	" "	Wilson, Joe	Bu. 102	Butler, Jack	Bu. 101	Parker, J. G.	22
23	" "	Hicks, W. T.	Bu. 303	Patterson, L.	Bu. 305	Badger, Louis	23
24	Ed.	Crago, Alfred	P. 211	Cook, Erben	P. 208	Lavin, Charles	24
25	" "	Little, W. W.	P. 112-A	Beach, Richard	P. 112	Webb, Herbert	25
26	" "	Salt, E. B.	P. 105	Durrance, C. L.	P. 102	Roberis, W. F.	26
27	" "	Smith, B. O.	P. 103	Perkins, L. S.	P. 206	McCroory, S. M.	27
28	Chem. Eng.	Eshleman, S. K. Lowe, T. M.	Wood Shop B. 101	{ Conrad, P. L. Wilkes, J. F. Barksdale, G. E. Emanuel, L. M.	B. 209 B. 208	Herr, F. N.	28
29	Civ. Eng.	Sawyer, W. L.	B. 102	{ Batteen, E. R. Barnes, E. A.	B. 203	Pope, P. M.	29
30	Elec. Eng.	Smith, E. F.	M. 205	{ Beville, J. W. Hostetler, G. W.	M. 201	Hendrix, T.	30
31	" "	Weil, Joseph	M. 208	{ Shackelford, J. W. Smith, J. B.	M. 209	Pound, C. A.	31
32	Mech. Eng.	Janes, C. H. Yeaton, P. O.	M. 303 M. 203	{ Brady, C. A. Macduff, S. I. De Grove, R. H. Rogers, L. H.	M. 301	Allison, John	32
33	Pharm.	Foote, P. A.	C. 312	Bradley, Edwin	C. 313	Bradley, R. A.	33

SUGGESTIONS FOR EFFECTIVE STUDY

I. GENERAL SUGGESTIONS

1. Strive to keep your body rested, for it is impossible to make an impression upon a fatigued mind.
2. Take intervals of rest at least ten minutes after finishing a unit of study.
3. Sleep and exercise regularly.
4. Eat the kind and quantity of food that will give you a maximum of energy.
5. Select the places where you can study with the minimum number of interruptions, and then use these places regularly.
6. Start studying immediately at the specified time; do not waste energy getting ready to begin.

II. THE PROPER APPROACH TO STUDY

1. Each subject has a certain relationship to your other subjects and to your general college training. Decide what the relationship is and make up your mind that it is worth while to do satisfactory work in the course.
2. Have confidence in your ability, but back it up with fixed hours for study. Make the changing of your schedule an exception rather than the rule.
3. Remember that concentration depends upon your interest, attention, and association of ideas.
4. Memory consists mainly in increasing the number and closeness of associations among facts. It involves impression, retention, recall, and recognition. It is well to remember to aim to learn facts permanently. In this way you will retain the material much better.
5. Review the work of the class as soon as possible after leaving the classroom. This helps to fix the ideas in your mind.

III. READING ASSIGNMENTS

1. Recall what you know about the subject.
 - a. Go back to the previous lesson and recall what you studied and what was brought out in class.
 - b. Constantly relate the new material to the old, and remember that memory demands the association of ideas.
2. Study the assignment as a whole in order to get the writer's complete line of thought. After reading the entire reference, close your book, make your outline on paper, and then review the text quickly to see what points you have omitted. If you find special difficulties, you can solve them in the light of the whole.
3. If you find your mind wandering, pause in your reading and recall what you have read to see whether you are getting the thought.
4. Learn when and how to read rapidly.
 - a. In sentence units regard especially the beginning and end of a sentence.
 - b. In paragraph units notice especially the first and last sentences.
 - c. In chapter units note the first and last paragraphs of a chapter.

IV. HOW TO UNDERSTAND THE LECTURE

1. The Form:
 - a. Decide upon an outline form which will be most useful to you.
 - b. Leave a wide margin in order that you may add other material and comments. This helps in the association of ideas.
2.
 - a. Write down the subject of the lecture.
 - b. Listen attentively for the main facts, especially those which are new, and write them down.
 - c. Discover the point of view of the lecturer and then record any objections or questions which may occur to you. Raise these questions either in class discussion or in conference with the instructor.
 - d. Go through your notes as soon as possible after the lecture and use the margins to jot down correlations with class discussion, reference reading, laboratory work, etc.
 - e. Before the next lecture, always read the preceding notes in order to get the continuity of thought.

V. EXAMINATIONS

1. Preparation:
 - a. Thorough preparation from day to day is the best preparation for the examination, both in economy of time and also in energy.
 - b. Review all the materials of the course. These may include lecture notes, laboratory notes, or reference reading.
 - c. Organize the material of the course in such a way (perhaps by topics) that you comprehend clearly its content and meaning, and test yourself to see whether you can use the material learned.
2. Writing:
 - a. Read the examination as a whole, making sure that you understand the meaning of each question.
 - b. Plan your answers in outline form and then write.
 - c. Express your ideas as correctly and as clearly as you can. Remember that the purpose of an examination is to impress your instructor with what you have learned.

ABSENCES

A. For each semester credit hour in any course, one absence is not reported to the Registrar, except as provided in Rule F below.

NOTE: It is expected that these non-reported absences shall, in most cases, be sufficient to take care of necessary absences due to sickness and extra-curricula activities. In no case may a student expect a penalty due to deliberate absence or absences to be suspended.

B. NO EXCUSES WILL BE ACCEPTED FOR ABSENCES.

C. Members of the faculty are required to report absences to the Office of the Registrar, in the manner specified, on blanks provided for this purpose by the Registrar.

D. For the first eight absences reported to the Registrar in any one semester (counting absences in all courses) and for each additional four absences so reported, one hour of negative credit will be imposed. For exceptions, see Rules E and H below.

E. A student will have two reported absences cancelled for each honor point in excess of the number of semester credit hours for which he was registered during the semester. Excess honor points may be used to cancel absences only in the semester in which they are earned. The use of honor points to cancel absences does not prevent their use for graduation.

F. When a student's absences in any one course, including the absences described in Rule A, amount to more than three times the number of credit hours specified, the student shall be dropped from the course with a grade of *Etc.*, for which grade he receives two negative honor points for each credit hour. As soon as the number of absences reaches this point, the instructor



PHI ETA SIGMA, CLASS OF '35 INITIATES

must report them to the Registrar on the special forms provided for this purpose.

In case a student's latest reported grade in a course is sufficient to offset enough absences by Rule E, the Chairman of the Committee on Attendance will have authority to continue him in the course, even though his absences in the course number more than three absences per credit hour.

Non-credit courses will be considered as credit courses according to the number of hours the class meets per week.

G. Upon proper petition, by the student, any penalty or penalties incurred solely by excessive absences due to sickness, absences under the Nine-Day Rule, or other unavoidable causes shall be considered individually by the Committee on Attendance, which has authority to act, subject to the limitations imposed by the Note in Rule A above.

H. For the administration of these rules, a Summer Session shall count as a semester.

1. Each semester is to be considered as a separate unit in administering these rules.

J. Each absence during the twenty-four hours (excluding Sundays) immediately preceding or following a holiday shall be counted as two absences. Appeals from this rule may be addressed to the Committee on Attendance, which has authority to act.

K. Students who have had excessive absences amounting to four or more negative penalty hours (See Rule D) during a semester will be placed on probation by the Committee on Attendance during the succeeding semester. Should the student violate the terms of probation, the Committee shall drop him from the University. The Registrar, the student, and the dean of the college concerned shall be notified of such probation.

Rules applying to dismissal for failure in studies shall also apply to dismissal for absences.

Absences count from the first meeting of the class rather than from the date a student registers for a class.

L. *Absences from Military Science:*

1. Classes: The same regulations apply to absences from Military Science courses as to academic courses.

2. Drill and Dress Parade: All absences from Drill or Dress Parade are required to be made up before the close of each semester. Should any student be absent six times during a semester, without approval from proper authority, he will be placed on probation and so notified. If he is absent thereafter, he will be reported to the Registrar, who will notify the student that he has been dropped from the University. Any student so dropped may have his case reviewed by the Committee on Military Affairs, but must make application for such review in person within forty-eight hours (not including Saturdays, Sundays and holidays) after the date on which he was dropped.

M. *Nine-Day Rule:* No student shall absent himself from the University for more than nine scholastic days per semester in order to participate in athletic or in other extra-curricula activities.

Schedules of each extra-curricula activity must be approved by the proper faculty committee, namely: athletic schedules, by the Committee on Athletics; debating and oratorical schedules by the Committee on Public Debating, and dramatic and glee club schedules by the Committee on Glee Club and Dramatics.

The Nine-Day Rule applies to individual members of the groups rather than to the group as a whole. Consequently, a schedule of more than nine days for any activity is not prohibited, provided the personnel of the group is so rotated that no student is absent from the campus for more than nine "scholastic days" (a "scholastic day" is defined as any day upon which regular University work is scheduled). Should occasion arise where the Nine-Day rule seems to work a hardship, appeal may be made to the University Senate.

STUDENT ACTIVITY PERIOD

The following are the Student Leaders who will have charge of the Student Activity Period:

W. A. HERIN, President of the Student Body.
J. D. BUTLER, Vice-President of the Student Body.
WINSTON ARNOW, Secretary of the Student Body.
JOHN ROGERS, Chancellor of the Honor Court.
BILL SIMMONS, Clerk of the Honor Court.
CHARLES ANDREWS, Editor-in-Chief of the Seminole.
BILL JOUBERT, Editor-in-Chief of the Alligator.
EDGAR McVOY, President of the Y.M.C.A.
HUGH EMBRY, Head Cheer Leader.

The activities to be discussed during this period are as follows:

1. Student Government.
2. Honor Court.
3. Fraternities.
4. Glee Club.
5. Orchestra.
6. Athletics.
7. Debating.
8. Young Men's Christian Association.
9. Publications.
10. Songs and Yells.

SOME FLORIDA TRADITIONS TO WHICH FRESHMEN ARE EXPECTED TO CONFORM

1. Wear Rat caps until the beginning of the Christmas holidays, with the exception of Sundays.
2. Speak to all fellow-students and faculty members.
3. Refrain from wearing high school insignia, except class rings.
4. Be able to name the following:
 - A. Deans of all the colleges on the campus.
 - B. Captains, managers, and coaches of all University of Florida major sport teams.
 - C. The major student body officers.
 - D. The Executive Council and Honor Court members from their respective colleges.
 - E. Every building on the campus and its location.
5. Attend all student body pep meetings and parades.
6. Attend all athletic events taking place in Gainesville, and sit in the cheering section. Freshmen with "dates" are exempt from this.
7. Refrain from cutting that part of the campus which forms the quadrangle, the corners of which are designated by Language Hall, Benton Hall, New Gym, and the northwest gate of the campus.
8. Display courtesy and respect to upperclassmen; respect and uphold all Florida traditions.
9. Each Freshman should become familiar with the University *By-Laws* and the *Bulletin of General Information*. Each can be had by applying to the Registrar's Office in Language Hall.
The Discipline Committee of the Executive Council is ready at all times to act upon all cases of hazing, and to see that the above rules are observed.

ADOPTED BY THE EXECUTIVE COUNCIL, MAY 19, 1932

THE HONOR SYSTEM

The Honor Code is Florida's greatest heritage, Florida's oldest tradition. For the Honor System to remain intact it is of the utmost importance that each incoming freshman class learn the Code, become a part of the System, know the underlying principle back of it, and carry it out to the fullest extent. For a majority of the freshmen entering the University of Florida, the Honor Court will be a factor with which they are little familiar. Therefore, your attention is called to the Honor Code so that you, as an incoming freshman, may not meet with the serious misfortune which might result from unfamiliarity with it, and also that you may become acquainted with this aspect of college life at Florida.

The Honor Code is as follows:

The offenses hereinafter set forth shall be dealt with by the Honor Court after the manner provided in the Constitution of the Student Body of the University of Florida:

1. Cheating, giving or receiving any manner of aid in connection with a test or examination in any college course.
2. Stealing.
3. The passing of worthless checks.

If the Court finds the accused guilty, and he makes no appeal, the court shall in its discretion either:

- (a) reprimand and warn the culprit and impose six penalty semester-hours on a freshman, nine penalty semester-hours on a sophomore, twelve penalty semester-hours on a junior, and fifteen penalty semester-hours on a senior, if the violation is not flagrant and it is the first offense, or
- (b) reprimand and warn the culprit and impose fifteen penalty semester-hours, if the culprit is a freshman and the violation is flagrant and willful, or
- (c) suspend for not less than one semester and impose penalty semester-hours as in clause (a) of this section, if it is a clear case and the culprit pleads guilty and he is an upperclassman and it is the first offense, or
- (d) suspend for not less than one year and impose penalty semester-hours as in clause (a) of this section, if the violation is flagrant and willful and the culprit pleads not guilty and it is the first offense, or
- (e) expel, if it is the second offense.
- (f) The Court may, in the furtherance of justice, amend the above penalties in extraordinary cases so that the penalties will not be unreasonably harsh and the ends to be accomplished defeated.
- (g) For the purpose of this article, students shall be classified according to their period of residence at the University.

The Honor System as it operates at the University of Florida is based on the theory which underlies all of our civilization and is fundamental to our conception of justice everywhere: that a man is presumed to be honorable until shown to be otherwise. The System further assumes that the student body is worthy of the trust which is placed in it. Its appeal is to men of integrity and self-reliance; it is an Honor System for honest men.

The Honor System presents a standard of conduct appealing to that which is noblest in a man's character, and its purpose is to form definite concepts of honesty and fairness. Its fundamental motive is to bring out the best that is in a man, so that all men who graduate from this University can be recognized as men worthy of trust and confidence.

Each year finds the destiny of the Honor System in the hands of the incoming freshman class. Only with your help can this greatest of all Florida traditions be maintained. When you take the following oath, administered by the Chancellor of the Honor Court, remember that you are accepting responsi-

bility for your own conduct, and that only by so doing can you become a true Florida man:

"I do solemnly promise upon my honor—that I will diligently study to acquaint myself with the provisions of the Constitution and Laws of the Student Body of the University of Florida—and that I will always respect—uphold and defend them. I also promise upon my honor—that I will earnestly seek to inform myself—of the provisions of the Honor Code—so that I shall always reflect honor—upon the school of my choice—gratify the sincere wish and hope of my guardians, instructors, and friends—that I shall in every respect—conform to the high standard—of a true Florida man—God being my helper."

REGISTRATION OF AUTOMOBILES

In general the University authorities discourage students owning and operating automobiles while in attendance at the University. While there is no prohibition of students having automobiles while in attendance at the University, the following regulations are enforced:

1. In case a student wishes to own and operate an automobile for more than one week, he must fill out a request card at the Registrar's office, for which he will be given a permit card. This card must be shown any proper University official on request.

2. Unless the student is over twenty-one years of age and self-supporting, the written permission of the student's parents or guardians must be filed with the request for permission to operate an automobile.

3. *Each student having an automobile in his possession at the University of Florida will be required to carry public liability and property damage insurance for not less than \$5000. Evidence of this insurance must be furnished the Registrar when the permit card is issued to the student.*

The University Record

of the

University of Florida

Bulletin of the

College of Engineering

*With Announcements for the
Year 1932-33*



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The Reports of the President and the Board of Control, the Bulletin of General Information, the annual announcements of the individual colleges of the University, announcements of special courses of instruction, and reports of the University Officers.

These bulletins will be sent gratuitously to all persons who apply for them. The applicant should specifically state which bulletin or what information is desired. Address

THE REGISTRAR
University of Florida
Gainesville, Florida

Research Publications.—Research publications will contain results of research work. Papers are published as separate monographs numbered in several series.

There is no free mailing list of these publications. Exchanges with institutions are arranged by the University Library. Correspondence concerning such exchanges should be addressed to the University Librarian, University of Florida, Gainesville, Florida. The issue and sale of all these publications is under the control of the Committee on Publications. Requests for individual copies, or for any other copies not included in institutional exchanges, should be addressed to the University Library, University of Florida, Gainesville, Florida.

The Committee on University Publications
University of Florida
Gainesville, Florida

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THE COLLEGE OF ENGINEERING
FACULTY

ADMINISTRATION

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THOMAS MARVEL LOWE, S.B., M.S., Assistant Professor of Civil Engineering
WILLIAM LINCOLN SAWYER, B.S., Instructor in Civil Engineering
JOHN A. C. BOGART, B.S.C.E., Graduate Assistant

DRAWING AND MECHANIC ARTS

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ing and Mechanic Arts
SILAS KENDRICK ESHLEMAN, JR., M.E., M.S., Assistant Professor of Drawing
and Mechanic Arts
EDGAR SMITH WALKER, Colonel, U. S. Army (Retired), Assistant Professor of
Drawing
CHESTER HOWELL JANES, B.S.M.E., Instructor in Drawing and Mechanic Arts

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WRUF

EDWARD FRANK SMITH, E.E., Assistant Professor of Electrical Engineering

DOW GARY BECK, Instructor in Electrical Engineering (part time)

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PHILIP OBORNE YEATON, B.S., S.B., Associate Professor of Mechanical Engineering

WILLIAM WARRICK FINEREN, M.E., Assistant Professor of Mechanical Engineering

ALFRED EDGAR WILSON, A.B., LL.B., Student Assistant

OTHER DEPARTMENTS

For faculties in other departments offering courses required in the various curricula of the College of Engineering, see the bulletins of the College of Arts and Sciences, the College of Commerce and Journalism, and the College of Agriculture.

GENERAL INFORMATION

HISTORY

When the University of Florida was established in 1905, it was composed of five departments, or schools. In one of these, the Technological School, four-year courses were offered in civil, electrical, and mechanical engineering. In 1909, this school became the College of Engineering, with its own dean and faculty. The Department of Chemical Engineering was added at the beginning of the collegiate year 1917-1918. Courses of instruction now offered are similar to those offered by American engineering schools of college grade.

AIMS

The College of Engineering endeavors to prepare its students for opportunities in the field of engineering by offering such courses as will thoroughly familiarize the student with the fundamental principles involved. It is realized that scholastic training alone cannot make a competent engineer, and that a college course must be supplemented with years of practical experience if the engineering graduate is to become successful in his chosen field. So far as is possible, the adaptation of theory to practice is stressed in the routine work of the laboratory, drawing-room, and field, in order to impart such a knowledge of the usual professional practice as will make the student useful in any position to which he may be called upon graduation.

BUILDINGS AND EQUIPMENT

Benton Engineering Building provides offices and classroom facilities for the Departments of Civil Engineering, Physics, and Military Science, and laboratories for Civil Engineering, Electrical Engineering, and Physics; one wing is used for wood shop, blacksmith shop, and forge and foundry; another wing for machine shop and testing laboratory and equipment.

In the new Mechanical Engineering Building are: offices of the Dean; offices, classrooms, and drawing-rooms of the Departments of Electrical Engineering, Mechanical Engineering, and Drawing and Mechanic Arts; and the new mechanical laboratory.

A dynamo laboratory equipped with standard electrical machinery of various kinds, a communication laboratory for classes in telephony, telegraphy, and radio engineering, and a measurements laboratory with the necessary instruments for testing equipment are provided by the Department of Electrical Engineering. State Radio Station WRUF, located on the University campus, uses a 5,000 watt transmitter of latest design, thus affording students interested in radio engineering an opportunity to become familiar with the construction and operation of a modern broadcasting station. Short Wave Station W4AVA, also located on the campus, affords students opportunity for experimentation in short wave communication.

In the Department of Mechanical Engineering, the steam and aeronautics laboratory is equipped to make gasoline and oil engine tests and heat exchange and steam experiments. An ice and cold storage plant of two tons' capacity, together with an eighty horse power Diesel engine, serve for complete refrig-

eration tests. Tests on engines, pumps, and motors are made with standard size equipment. The metallography laboratory has a polishing machine, metallographic microscope with camera, a binocular microscope, and a Brinell hardness tester.

The various shops of the Department of Drawing and Mechanic Arts are equipped with standard machines and tools for instruction in forge, foundry, pattern making, and machine shop. An arc-welding outfit is included.

The general equipment of the Department of Chemical Engineering is adequate for the usual undergraduate courses in industrial chemistry, technical analysis, and the unit processes of chemical engineering. Equipment is also available for courses in metallurgy, and for graduate courses in chemical engineering. The engineering materials laboratory is equipped with a hydraulic testing machine with a capacity of 125,000 pounds.

The Department of Civil Engineering has available the usual equipment for courses in highways, hydraulics, municipal sanitation, railroads, surveying, and testing. Included in the equipment is a new Riehle testing machine of a capacity of 400,000 pounds.

ENGINEERING EXPERIMENT STATION

The Engineering Experiment Station, which is administered through the College of Engineering, affords opportunities for interested students to conduct research in the general field of engineering.

FEEES

For information concerning fees and other expenses, see the *Bulletin of General Information*, for 1932-1933, pages 159-164. Laboratory fees for courses in engineering are described under "Departments of Instruction", pages 441 to 457 inclusive in this bulletin.

FELLOWSHIPS AND SCHOLARSHIPS

Three fellowships, carrying an annual stipend of \$500, are offered in Engineering, one each in chemical, civil, and mechanical engineering. Recipients of these fellowships must devote half time as graduate assistants in the respective departments. No special scholarships are offered students in the College of Engineering. For further information concerning fellowships, scholarships, loans, prizes, and medals, see the *Bulletin of General Information* for 1932-1933, pages 165-171.

SUMMER SESSION

A few of the regular courses of the College of Engineering are offered during the Summer Session. Other courses may be added in the future, in answer to many requests.

CORRESPONDENCE COURSES

A few regular courses of the College of Engineering are offered through the General Extension Division when it seems advisable to do so.

RULES AND REGULATIONS

Upon registration, each student should secure a copy of the *Bulletin of By-Laws*. He is held responsible for the observance of all regulations contained therein as long as he is connected with the University of Florida.

EMPLOYMENT FOR GRADUATES

Contacts are maintained with the leading concerns of the country which employ college graduates. Many of these companies send representatives to the University each year to interview students who are candidates for degrees.

STUDENT ORGANIZATIONS

Benton Engineering Society.—Every student registered in the College of Engineering is eligible for membership in the Benton Engineering Society, and is expected to join. The meetings of the Society are devoted to addresses and discussions on technical subjects, or on affairs of general interest. It is the medium through which the engineering students engage in student enterprises and take part in debates and athletic contests with the students of other colleges of the University. The Society is a member of the Student Branch of the Florida Engineering Society.

Student Branch of the American Institute of Electrical Engineers.—Membership in the Student Branch of the American Institute of Electrical Engineers is open to sophomores, juniors, and seniors enrolled in the electrical engineering course, under rules established by the Institute. Members receive the *Journal* of the Institute and enjoy other privileges of the national organization.

Student Chapter of the American Society of Civil Engineers.—Sophomores, juniors, and seniors in civil engineering are eligible for membership in the Student Chapter of the American Society of Civil Engineers, under rules established by the society. Monthly meetings of the Society are held. Members receive the *Journal* of the Society, and enjoy other privileges.

Student Branch of the American Society of Mechanical Engineers.—Students who expect to enter the field of mechanical engineering are eligible for membership in the Student Branch of the American Society of Mechanical Engineers, under rules established by the Society. Members receive the *Journal of the American Society of Mechanical Engineers* and enjoy other privileges. Monthly meetings are held.

Society of Chemical Engineers.—Membership in the Society of Chemical Engineers is open to students specializing in chemical engineering. Meetings are held at regular intervals, at which practical applications of chemical engineering principles are discussed.

For information concerning other student organizations, see the *Bulletin of General Information* for 1932-1933.

ADMISSION

GENERAL REQUIREMENTS

For full information concerning the general requirements for admission to the University of Florida, the prospective student should consult the *Bulletin of General Information* for 1932-1933, pages 149-158.

SPECIAL REQUIREMENT

In addition to meeting the general requirements for admission to the University of Florida, in order to be admitted to the College of Engineering, the candidate must present one unit in advanced algebra, one-half unit in solid geometry, and one-half unit in trigonometry.

Qualifying Examinations.—All candidates for admission to freshman engineering courses must pass a qualifying examination, which is given during Freshman Week. This examination is of the same nature as an intelligence test. Pending the provision of enlarged facilities for instruction, the right is reserved to limit the number of freshmen entering the College of Engineering to such a number as can be properly accommodated with the present facilities. Students having successfully completed a year's course in another college will be exempt from this examination.

SPECIAL STUDENTS

Persons twenty-one or more years of age who cannot satisfy the entrance requirements, but who give evidence of ability to profit by the courses they may take, may, under exceptional circumstances be admitted as "Adult Special Students". They are required to comply with the same regulations as the regular students. The number of special students in the College is restricted to a small percentage of the total enrollment. Adult Special students may not work toward a degree, and the registration of such students is discouraged.

ADVANCED STANDING

For information concerning admission with advanced standing, see the *Bulletin of General Information*, for 1932-1933, page 154.

REGISTRATION

Information concerning registration will be found in the *Bulletin of General Information* for 1932-1933, page 155.

DEGREES AND REQUIREMENTS OF THE DIFFERENT CURRICULA

The College of Engineering offers professional four-year courses of study in the four fields described below. The work of the freshman year is the same for all engineering students, so that each student has the chance to choose the branch of engineering he wishes to follow before the beginning of his sophomore year.

DEGREES

The degrees given for the completion of the regular four-year courses of study are Bachelor of Science in Chemical Engineering, Bachelor of Science in Civil Engineering, Bachelor of Science in Electrical Engineering, and Bachelor of Science in Mechanical Engineering.

The degree of Civil Engineer (C.E.), Electrical Engineer (E.E.), Mechanical Engineer (M.E.), or of Chemical Engineer (Ch.E.) may be granted to a graduate of the College of Engineering upon recommendation of the head of the department in which it is sought, and with the concurrence of the faculty of the College, provided the candidate submits evidence that he has had at least four years of satisfactory practical engineering experience, of which two years must be responsible experience after graduation. By responsible experience is meant work in which the candidate must use his own initiative, as distinguished from the mere rendering of routine assistance. To obtain one of these degrees, application should be made to the Dean of the College not later than March 1 preceding the commencement at which the degree may be awarded.

GRADUATE COURSES

The four departments of the College of Engineering, under the jurisdiction of the Graduate School of the University, offer graduate courses leading to the degree of Master of Science in Engineering. Although the requirements for the degree may be completed during one regular academic year, it is recommended that the course be extended over a period of two years. For further information, see the *Bulletin of the Graduate School*.

HONOR POINT REQUIREMENT

Students desiring to earn degrees in the College of Engineering must complete the courses outlined in the curricula of the different departments and must do work of such quality that the total number of honor points which they have earned in all of their courses will equal the total number of semester credit hours required for the degree. For information concerning the honor point system, see the *Bulletin of By-Laws*.

CURRICULA

CURRICULUM FOR THE FRESHMAN YEAR FOR ALL ENGINEERING STUDENTS

First Semester		Second Semester	
Names of Courses	Credits	Names of Courses	Credits
Cy. 101—General Chemistry	5	Cy. 102—General Chemistry	5
Dg. 101—Mechanical Drawing	1	Dg. 101—Mechanical Drawing	1
Eh. 101—Rhetoric and Composition	3	Eh. 102—Rhetoric and Composition	3
Pl. 101—Gymnastics	1	Pl. 102—Gymnastics	1
Ms. 151—Mathematical Analysis	3	Ms. 152—Mathematical Analysis	3
My. 103—Artillery	2	My. 104—Artillery	2
Cl. 101—Surveying	2	Me. 0101—Woodworking	1
Dg. 0102—Mechanical Drawing	1	Me. 102—Descriptive Geometry	2
	or		or
Me. 101—Woodworking	1	Cl. 0101—Surveying	2
Ml. 0102—Descriptive Geometry	2	Dg. 102—Mechanical Drawing	1
	18		18

CURRICULUM FOR CHEMICAL ENGINEERING

The courses in Chemical Engineering are designed to familiarize the student with the efficient construction and economic operation of chemical plants. The problems involved in the commercial manufacture of organic and inorganic chemicals, and the methods employed to solve these problems, are considered in detail.

First Semester		Second Semester	
Names of Courses	Credits	Names of Courses	Credits
Sophomore Year			
Cy. 0232—Physical Chemistry	4	Cy. 0203—Qualitative Analysis	4
Gn. or Fh.—German or French	3	Gn. or Fh.—German or French	3
Ms. 253—Differential and Integral Calculus	5	Ms. 254—Differential and Integral Calculus	5
My. 203—Artillery	2	My. 204—Artillery	2
Ps. 105—General Physics	3	Ps. 106—General Physics	3
Ps. 107—Physics Laboratory	2	Ps. 108—Physics Laboratory	2
	19		19
Junior Year			
Cy. 305—Quantitative Analysis	5	Cy. 362—Organic Chemistry	5
Cy. 361—Organic Chemistry	5	Es. 0201—Economics, or Approved Elective	3
Es. 201—Economics, or Approved Elective	3	Mc. 202—Foundry	1
Ml. 315—Applied Mechanics	5	Ml. 316—Applied Mechanics	5
		El. 0307—Elements of Electrical Engineering	3
		El. 0309—Electrical Laboratory	1
	18		18
Senior Year			
Cl. 405—Contracts and Specifications	2	Cy. 422—Advanced Physical Chemistry	4
Cl. 407—Hydraulics	3	Cy. 444—Chemical Engineering Laboratory	3
Cy. 335—Unit Processes	3	Cy. 446—Industrial Chemistry	3
Cy. 343—Industrial Chemistry	3	Ml. 310—Thermodynamics	3
Cy. 351—Metallurgy	3	Ml. 410—Human Engineering	2
Cy. 415—Fuels Laboratory	2	Approved Elective	3
	16		18

The class of 1934 will substitute Cy. 0232, 4-0, for approved elective, 3-0, in the junior year.

CURRICULUM FOR CIVIL ENGINEERING

The courses in Civil Engineering are designed to give the student a comprehensive grasp of the principles underlying the practice of civil engineering, so that upon graduation he will be prepared to fill such positions as are usually allotted to young engineers in general engineering, or in the special branches such as highway, railroad, hydraulic, sanitary, structural, and topographical engineering.

First Semester		Second Semester	
Names of Courses	Credits	Names of Courses	Credits
Sophomore Year			
Cl. 201—Surveying	4	Cl. 202—Surveying	3
Cl. 203—Engineering Exposition	1	Cl. 206—Highway Construction	2
Ml. 209—Descriptive Geometry	1	Mc. 204—Metal Shop	1
Ms. 253—Differential and Integral Calculus	5	Ms. 254—Differential and Integral Calculus	5
My. 203—Artillery	2	My. 204—Artillery	2
Ps. 105—General Physics	3	Ps. 106—General Physics	3
Ps. 107—Physics Laboratory	2	Ps. 108—Physics Laboratory	2
	18		18
Junior Year			
Cl. 301—Railway and Highway Sur- veying	4	Cl. 302—Railway Construction	2
El. 307—Elements of Electrical En- gineering	3	Cl. 306—Theory of Structures	3
El. 309—Electrical Laboratory	1	Cl. 310—Testing Laboratory	1
Gy. 201—Physical Geology	3	Cl. 312—Engineering Exposition	1
Ml. 315—Applied Mechanics	5	Cy. 0215—Water and Sewage	3
Ml. 319—Materials of Engineering....	2	Es. 0201—Principles of Economics ...	3
	18	Ml. 316—Applied Mechanics	5
			18
Senior Year			
Bey. 0308—Sanitary Laboratory Prac- tice	3	Cl. 404—Structural Design	3
Cl. 403—Structural Design	4	Cl. 408—Hydraulic Engineering	2
Cl. 405—Contracts and Specifications	2	Cl. 410—Water and Sewerage	3
Cl. 407—Hydraulics	3	Cl. 412—Concrete Design	3
Cl. 409—Water and Sewerage	3	Ml. 410—Human Engineering	2
Approved Elective	3	Approved Electives	5
	18		18

The class of 1933 will take Cl. 312, 0-1 in the senior year.

CURRICULUM FOR ELECTRICAL ENGINEERING

The courses in Electrical Engineering are designed to give the student thorough instruction in the principles of electrical design, installation, and operation. Considerable time is devoted to problems pertaining to the generation, transmission, distribution, and utilization of electrical energy. Additional emphasis can be placed in the field of communication engineering by those students desiring to do so.

First Semester		Second Semester	
Names of Courses	Credits	Names of Courses	Credits
Sophomore Year			
Dg. 201—Machine Drawing	1	Dg. 202—Machine Drawing	1
Es. 201—Economics	3	Mc. 202—Foundry	1
Mc. 201—Forge	1	Mc. 206—Machine Shop	1
Ml. 209—Descriptive Geometry	1	Ml. 202—Mechanism	3
Ms. 253—Differential and Integral Calculus	5	Ms. 254—Differential and Integral Calculus	5
My. 203—Artillery	2	My. 204—Artillery	2
Ps. 105—General Physics	3	Ps. 106—General Physics	3
Ps. 107—Physics Laboratory	2	Ps. 108—Physics Laboratory	2
	18		18
Junior Year			
El. 315—D.C. Theory and Application	3	El. 316—A.C. Theory and Application	3
El. 317—Electricity and Magnetism..	3	El. 318—A.C. Circuits	3
El. 319—Dynamo Laboratory	1	El. 320—Dynamo Laboratory	2
Ml. 301—Machine Elements	1	Ml. 302—Machine Elements	2
Ml. 315—Applied Mechanics	5	Ml. 316—Applied Mechanics	5
Ml. 319—Materials of Engineering ...	2	Ml. 310—Thermodynamics	3
Approved Elective	3		
	18		18
Senior Year			
Cl. 405—Contracts and Specifications	2	El. 412—A.C. Machinery and Design	3
Cl. 407—Hydraulics	3	El. 414—Dynamo Laboratory	2
El. 411—D.C. Machinery and Design	3	Ml. 410—Human Engineering	2
El. 413—Dynamo Laboratory	2	Ml. 420—Mechanical Laboratory ...	2
Ml. 421—Power Engineering	3	Ml. 424—Power Engineering	3
Electrical Elective	3	Electrical Elective	3
Approved Elective	2	Approved Elective	3
	18		18

CURRICULUM FOR MECHANICAL ENGINEERING

Mechanical Engineering is a basic engineering course. Instruction in this department is given in both theory and practice. Accuracy, neatness, and systematic presentation are required in all classes and home-study drawings and problems. It is the aim of the course to produce engineers of independent thought and original power, who can give efficient service in the industries and public utility companies.

First Semester		Second Semester	
Names of Courses	Credits	Names of Courses	Credits
Sophomore Year			
Dg. 201 and 0202—Machine Drawing	2	Mc. 202—Foundry	1
Mc. 201—Forge	1	MI. 202—Mechanism	3
MI. 207—Descriptive Geometry	2	MI. 208—Kinematics	2
Ms. 253—Differential and Integral Calculus	5	Ms. 254—Differential and Integral Calculus	5
My. 203—Artillery	2	My. 204—Artillery	2
Ps. 105—General Physics	3	Ps. 106—General Physics	3
Ps. 107—Physics Laboratory	2	Ps. 108—Physics Laboratory	2
	17		18
Junior Year			
El. 315—D.C. Theory and Application	3	El. 316—A.C. Theory and Application	3
El. 319—Dynamo Laboratory	1	El. 322—Dynamo Laboratory	1
Es. 201—Economics	3	Mc. 304—Patternmaking	2
Mc. 301—Machine Shop	2	MI. 302—Machine Elements	2
MI. 301—Machine Elements	1	MI. 310—Thermodynamics	3
MI. 315—Applied Mechanics	5	MI. 316—Applied Mechanics	5
MI. 319—Materials of Engineering	2	MI. 320—Metallography	2
Ms. 420—Differential Equations (Part of Course)	2		
	19		18
Senior Year			
Cl. 405—Contracts and Specifications	2	Cl. 408—Hydraulic Engineering or	} 2
Cl. 407—Hydraulics	3	MI. 428—Aeronautics	
El. 411—D. C. Machinery and Design or	} 3	MI. 410—Human Engineering	2
MI. 427—Aeronautics		MI. 412—Mechanical Design	3
MI. 411—Mechanical Design	3	MI. 418—Mechanical Laboratory	2
MI. 417—Mechanical Laboratory	1	MI. 422—Refrigeration or	} 3
MI. 421—Power Engineering	3	MI. 430—Aerodynamics	
Approved Elective	3	MI. 424—Power Engineering	3
	18	Approved Elective	3
			18

CURRICULUM FOR BUSINESS ADMINISTRATION IN COMBINATION WITH ENGINEERING

Students who wish to prepare themselves for administrative and selling positions in the field of manufacturing and railway and public utility operation may pursue a four-year course leading to the degree of Bachelor of Science in Business Administration.

Much of the work of the first two years is offered by the College of Engineering, and of the last two years by the College of Commerce and Journalism. The student registers in the College of Commerce and Journalism. The curriculum for the full course is shown in the bulletin of that college. The curriculum for the first two years is listed below.

THE CURRICULUM IN COMBINATION WITH ENGINEERING

Leading to the Degree of Bachelor of Science in Business Administration

First Semester		Second Semester	
Names of Courses	Credits	Names of Courses	Credits
Freshman Year			
Dg. 101—Mechanical Drawing	1	Cl. 0101—Surveying	2
Dg. 0102—Mechanical Drawing	1	Dg. 101—Mechanical Drawing	1
Eh. 101—Rhetoric and Composition..	3	Eh. 102—Rhetoric and Composition...	3
Ml. 0102—Descriptive Geometry	2	Mc. 0101—Woodworking	1
Ms. 151—Elementary Mathematical Analysis	3	Ms. 152—Elementary Mathematical Analysis	3
My. 101—Infantry	2	My. 102—Infantry	2
Pl. 101—Gymnastics	1	Pl. 102—Gymnastics	1
Ps. 111-115—Mechanics and Heat, Sound, Light and Electricity	5	Ps. 112, 116—Mechanics and Heat, Sound, Light and Electricity	5
	18		18
Sophomore Year			
Bs. 201E—Principles of Economics..	3	Bs. 202E—Principles of Economics..	3
El. 201—Elements of Electrical En- gineering	2	Bs. 0211—Principles of Accounting..	3
El. 203—Elements of Electrical En- gineering	1	El. 202—Elements of Electrical En- gineering	2
Ml. 0204—Mechanical Engineering..	3	El. 204—Elements of Electrical En- gineering	1
Ml. 0206—Mechanical Engineering ...	1	Mc. 204—Metalworking	1
Ms. 253—Differential and Integral Calculus	5	Ml. 0203—Mechanical Engineering ...	3
My. 201—Infantry	2	Ml. 0205—Mechanical Engineering ...	1
		My. 202—Infantry	2
		Approved Elective	2
	17		18

DEPARTMENTS OF INSTRUCTION

Subjects with odd numbers are offered in the first semester and subjects with even numbers in the second semester unless the number begins with 0, in which case the reverse is true.

The number of hours listed is the number of hours which the class meets per week.

The number of credits is the number of semester credit hours earned by each student who receives a passing grade (A, B, C, or D) when the subject is completed. Unless specifically stated, credit will be allowed for one semester of a year course.

Subjects numbered 200 or above are not as a rule open to freshmen; subjects numbered 300 or above are not as a rule open to sophomores; subjects numbered 400 or above are not as a rule open to juniors; subjects numbered 500 or above are for graduate students.

The abbreviations used wherever possible are the first and last letter of the first word of the department name. Occasionally, a third central letter is included to distinguish between departments where first and last letters are identical.

BACTERIOLOGY

Bcy. 0308.—Sanitary Laboratory Practice. 1 hour, and 4 hours laboratory. 3 credits. CARROLL.

Problems in sewage and public sanitation; field work; designed for students in civil engineering.

Laboratory fee: \$5.

Required of all fourth-year civil engineering students.

CHEMICAL ENGINEERING

Cy. 101.—General Chemistry. 4 hours, and 3 hours laboratory. 5 credits. No credit toward a degree will be allowed until credit in **Cy. 102** is earned. BEISLER and ELLIS.

The fundamental laws and theories of chemistry, and the preparation and properties of the common non-metallie elements and their compounds.

Laboratory fee: \$5.

Required of first-year engineering students.

Cy. 102.—General Chemistry, continued. 4 hours, and 3 hours laboratory. 5 credits. BEISLER and ELLIS.

Devoted largely to a study of the metallie elements and their compounds.

Laboratory fee: \$5.

Required of first-year engineering students.

Cy. 0203.—Qualitative Analysis. 2 hours, and 6 hours laboratory. 4 credits. JACKSON.

A systematic study of the metals and their chemical reactions, and theoretical considerations of qualitative analysis. Practice in the separation and identification of the common metals and acid radicals.

Prerequisites: General Chemistry and **Cy. 0232**.

Laboratory fee: \$5.

Required of second-year chemical engineering students.

Cy. 0215.—Water and Sewage. 2 hours, and 3 hours laboratory or its equivalent. 3 credits. POLLARD.

A theoretical and practical study of the examination and treatment of water and sewage.

Prerequisite: General Chemistry.

Laboratory fee: \$5.

Required of third-year civil engineering students.

Cy. 0232.—Elementary Physical Chemistry. 3 hours, and 3 hours laboratory. 4 credits. JACKSON.

A study of the gaseous, liquid and solid states of matter, the properties of solutions, and colloids.

Prerequisite: General Chemistry.

Laboratory fee: \$5.

Required of second-year chemical engineering students.

Cy. 305.—Quantitative Analysis. 2 hours, and 9 hours laboratory. 5 credits. BLACK.

The fundamental principles of gravimetric and volumetric analysis. The laboratory work may be varied somewhat to fit the needs of individual students.

Prerequisite: Cy. 0203.

Laboratory fee: \$5.

Required of third-year chemical engineering students.

Cy. 335.—Unit Processes of Chemical Engineering. 3 hours or the equivalent. 3 credits. BEISLER.

A critical study of the fundamental chemical engineering processes, such as filtration, evaporation, and drying.

Prerequisites: Cy. 0232, College Physics, and Calculus.

Required of fourth-year chemical engineering students.

Cy. 343.—Industrial Chemistry, Inorganic. 3 hours. 3 credits. BEISLER.

Consideration of chemical principles involved in manufacturing and refining inorganic products of commercial importance.

Prerequisites: Cy. 0232, or General Chemistry and College Physics.

Required of fourth-year chemical engineering students.

Cy. 351.—Metallurgy. 2 hours, and 3 hours laboratory. 3 credits. HEATH, YEATON.

A study of the preparation, properties, structure, and uses of the more important metals and alloys.

Prerequisites: General Chemistry and College Physics.

Laboratory fee: \$5.

Required of fourth-year chemical engineering students.

Cy. 361-362.—Organic Chemistry. 3 hours, and 6 hours laboratory or its equivalent. 10 credits. No credit toward a degree will be allowed until the entire 10 credits are earned. LEIGH.

A study of the preparation and properties of the various aliphatic and aromatic compounds.

Prerequisites: Cy. 203 or Cy. 232.

Laboratory fee: \$5 per semester.

Required of third-year chemical engineering students.

Cy. 415.—Fuels Laboratory. 6 hours laboratory or its equivalent. 2 credits. BEISLER.

Analysis and calorimetry of gaseous, liquid, and solid fuels.

Prerequisite: Cy. 305.

Laboratory fee: \$5.

Required of fourth-year chemical engineering students.

Cy. 422.—Advanced Physical Chemistry. 3 hours, and 3 hours laboratory. 4 credits. JACKSON.

A study of the electrical theory of matter, radioactivity, atomic structure, relation between physical properties and chemical constitution, equilibrium, phase rule, thermodynamics, thermo-chemistry, chemical kinetics, and photochemistry.

Prerequisites: Cy. 0203, Cy. 0232, Cy. 361-362.

Required of fourth-year chemical engineering students.

Cy. 444.—Chemical Engineering Laboratory. 9 hours laboratory or the equivalent. 3 credits. BEISLER.

A practical study of the processes used for the manufacture and purification of chemicals.

Prerequisites: Cy. 335, Cy. 343.

Laboratory fee: \$5.

Required of fourth-year chemical engineering students.

Cy. 446.—Industrial Chemistry, Organic. 3 hours. 3 credits. BEISLER.

Consideration of chemical principles involved in manufacturing and refining organic products of commercial importance. Visits are made to accessible factories and chemical plants.

Prerequisites: Cy. 361-362; Cy. 343.

Required of fourth-year chemical engineering students.

GRADUATE COURSES

Cy. 501.—Organic Preparations

Cy. 504.—Inorganic Preparations

Cy. 505.—Organic Nitrogen Compounds

Cy. 506.—Special Chapters in Organic Chemistry

Cy. 508.—Synthesis and Structure of Organic Compounds

Cy. 509.—Electrochemistry

Cy. 510.—The Phase Rule

Cy. 512.—The Applications of Physical Chemistry

Cy. 513.—Colloid Chemistry

Cy. 516.—Chemistry of the Rare Elements

Cy. 519.—Atomic Structure

Cy. 525-526.—Chemistry of the Terpenes

Cy. 531.—Advanced Qualitative Analysis

Cy. 533.—Advanced Quantitative Analysis

Cy. 537.—Qualitative Organic Chemistry

Cy. 538.—Quantitative Organic Chemistry

Cy. 542.—Catalysis

Cy. 545.—Chemical Thermodynamics

Cy. 551-552.—Chemical Research

See the *Bulletin of the Graduate School* for a description of these courses.

CIVIL ENGINEERING

Cl. 101 or 0101.—Surveying. 1 hour, and 3 hours laboratory. 2 credits. REED.

Recitations on the use of chain, compass, transit, and level; determination of areas, and instrumental adjustments. Field work in chaining, leveling, compass and transit surveys. Drawing-room work in calculations from field notes, and map-drawing. Textbook: Breed and Hosmer, *Vol. 1, The Principles and Practice of Surveying*.

Prerequisite: Trigonometry.

Laboratory fee: \$3

Required of first-year engineering students.

Cl. 201.—Surveying. 2 hours, and 6 hours laboratory. 4 credits. SAWYER.

Recitations on balancing of surveys and calculating of areas; methods of making topographical surveys, including the use of the stadia and plane table; methods of solving other problems in land, topographical, and city surveying. Field work: the making of a complete topographical survey; tests and adjustments of instruments. Drawing-room work on balancing surveys, calculating areas, and reducing field notes; plotting maps and profiles; contour problems. Textbook: Davis, Foote and Rayner, *Surveying: Theory and Practice*.

Prerequisite: Cl. 101.

Laboratory fee: \$3.

Required of second-year civil engineering students.

Cl. 202.—Surveying. 2 hours, and 3 hours laboratory. 3 credits. LOWE.

Problems involving the principles of precise leveling, baseline measurement, triangulation, and determination of meridian, latitude, and time. Field work: Precise leveling, base-line work, meridian and latitude observations. Drawing-room work on triangulation and astronomical computations.

Textbook: Davis, Foote and Rayner, *Surveying: Theory and Practice*.

Prerequisite: Cl. 201.

Laboratory fee: \$3.

Required of second-year civil engineering students.

Cl. 203.—Engineering Exposition. 1 hour. 1 credit. BROWN.

A course in accuracy and clearness in form and content of engineering exposition, both literary and technical.

Textbook: Howell's *Handbook of English in Engineering Usage*.

Collateral reading: Wait and McDonald's *Composition of Technical Papers*; Marcoux's *Business Correspondence Principles and Practice*; Reeder's *How to Write a Thesis*; Gaum and Graves' *Report Writing*.

Prerequisite: Eh. 101-102.

Required of second-year civil engineering students.

Cl. 206.—Highway Construction. 2 hours. 2 credits. BROWN.

Lectures and recitations on highway location, drainage, foundations, surfaces, methods of construction, maintenance, and repair.

Textbook: Wiley's *Principles of Highway Engineering*.

Prerequisite: Cl. 101.

Required of second-year civil engineering students.

Cl. 301.—Railway and Highway Surveying. 2 hours, and 6 hours laboratory. 4 credits. LOWE and BROWN.

The first half of the semester is devoted to recitations and laboratory work on simple, compound, reversed, and vertical curves, and railway and highway location; the second half of the semester the work is divided: one recitation and one laboratory period are devoted to earthwork and preliminary location of a railway line; one recitation and one laboratory period on final location and construction of a highway, with computations of quantities and costs.

Textbooks: Pickle and Wiley's *Route Surveying*; Wiley's *Principles of Highway Engineering*.

Prerequisite: Cl. 101.

Laboratory fee: \$1.50.

Required of third-year civil engineering students.

Cl. 302.—Railways. 1 hour and 3 hours laboratory. 2 credits. LOWE.

Recitations on transmission curves, turnouts, and earthwork. Field and drawing-room work in final location of a railroad; plotting of lines and profiles; earthwork computations.

Textbook: Pickle and Wiley's *Route Surveying*.

Prerequisite: Cl. 301.

Laboratory fee: \$1.50.

Required of third-year civil engineering students.

Cl. 306.—Theory of Structures. 2 hours and 3 hours laboratory. 3 credits. SAWYER.

Recitations and drawing room exercises in the computation of forces; the plotting of diagrams in elementary graphics and roof truss; bridge and masonry problems; design of a roof truss.

Textbook: Southerland and Bowman, *Structural Theory*.

Prerequisite: Ml. 315.

Required of third-year civil engineering students.

Cl. 308.—Theory of Structures. 1 hour and 3 hours laboratory. 2 credits. REED.

Similar to Cl. 306 except the work concerning bridges.

Textbook: Hool and Kinne, *Steel and Timber Structures*.

Prerequisite: Ml. 315.

Cl. 310.—Testing Laboratory. 2 hours laboratory. 1 credit. BROWN.

Laboratory work in the testing of stone, brick, asphalt, and other road materials and in cement, sand, concrete, timber, steel, and other materials used in construction.

Textbook: E. E. Bauer, *Plain Concrete*.

Prerequisite: Ml. 315

Laboratory fee: \$2.

Required of third-year civil engineering students.

Cl. 312.—Engineering Exposition. 1 hour. 1 credit. BROWN.

Intensive practice in forms of engineering exposition for general articles, technical publications, theses, reports on projects for laymen, and for engineering bodies. Reports of research on scientific and technical subjects.

Textbooks: See Cl. 203 for texts recommended.

Required of third-year civil engineering students.

Prerequisite: Cl. 203.

Cl. 403.—Structural Engineering. 2 hours, and 6 hours laboratory. 4 credits. REED and SAWYER.

Recitations and drawing-room work in the theory and design of wooden and steel roof trusses and girders.

Textbook: Hool and Kinne, *Steel and Timber Structures*.

Prerequisite: Ml. 315, Ml. 316, and Cl. 306 or Cl. 308.

Required of fourth-year students in civil engineering.

- Cl. 404.—Structural Engineering.** 2 hours, and 3 hours laboratory. 3 credits. SAWYER.
 Recitation and drawing-room work in the theory and design of foundations, highway and railroad bridges, and buildings.
 Prerequisite: **Cl. 403.**
 Required of fourth-year students in civil engineering.
- Cl. 405.—Contracts and Specifications.** 2 hours. 2 credits. BROWN.
 The contract and its relation to the engineer. Specifications.
 Textbook: D. W. Mead, *Contracts and Specifications and Engineering Relations.*
 Required of fourth-year engineering students. Elective for non-engineering students.
- Cl. 407.—Hydraulics.** 2 hours, and 2 hours laboratory. 3 credits. LOWE.
 Recitations and laboratory work on the elements of hydraulics; the principles of hydrostatic and hydrodynamic pressure; the measurement of water by orifices, short tubes, nozzles, weirs, and other measuring instruments; flow thru pipes and open channels; losses from friction and other sources; and other related topics.
 Textbook: Schoder and Dawson, *Hydraulics.*
 Prerequisite: **MI. 315** and **MI. 316.**
 Laboratory fee: \$3.
 Required of fourth-year engineering students.
- Cl. 408.—Hydraulic Engineering.** 2 hours. 2 credits. LOWE.
 Recitations on stream gaging and hydrographic surveying; water power, hydraulic turbines, and impulse wheels; and other measuring instruments.
 Textbooks: Schoder and Dawson, *Hydraulics*; Barrows, *Water Power Engineering.*
 Prerequisite: **Cl. 407.**
 Required of fourth-year students in civil and in mechanical engineering.
- Cl. 409.—Water and Sewerage.** 2 hours, 3 hours laboratory. 3 credits. BROWN.
 Lectures, recitations, and designs for supply and distribution systems for a public water supply and a collection system for the sewage and storm water of a municipality.
 Textbook: Parts of Turneaure and Russell's *Public Water Supplies* and of Metcalf and Eddy's *Sewerage and Sewage Disposal.*
 Collateral reading: Elliott's *Engineering for Land Drainage.* Williams and Hazen's *Hydraulic Tables. Standard Specifications.*
 Prerequisite: **MI. 315-316.**
 Required of fourth-year civil engineering students.
- Cl. 410.—Water and Sewerage.** 2 hours, 3 hours laboratory. 3 credits. BROWN.
 Lectures and recitations. Collection of data and general design of a small sewage treatment plant and of a water filtration plant.
 Textbook: same as for **Cl. 409.**
 Prerequisite: **Cl. 409.**
 Required of all fourth-year civil engineering students.
- Cl. 412.—Concrete Design.** 2 hours, and 3 hours laboratory. 3 credits. LOWE.
 Recitations and drawing-room work on the theory and design of reinforced concrete structures. Textbook: Southerland and Clifford, *Reinforced Concrete Design.*
 Prerequisite: **MI. 315** and **MI. 316.**
 Required of fourth-year students in civil engineering.

GRADUATE COURSES

- Cl. 501-502.—Advanced Work in Structural Engineering**
Cl. 507-508.—Advanced Work in Municipal Engineering
Cl. 509-510.—Advanced Work in Municipal Engineering

DRAWING

Dg. 101-102.—Mechanical Drawing. 3 hours. 2 credits. WALKER.

Geometrical problems, lettering, and dimensioning.

Laboratory fee: \$0.25.

Required of all first-year students in engineering, in the combined Business Administration and Engineering course, and manual arts.

Dg. 104.—Mechanical Drawing. 3 hours. 1 credit. WALKER.

Projections, machine parts, and tracing.

Required of all first-year students in engineering, in the combined Business Administration and Engineering course, and manual arts.

Dg. 106.—Mechanical Drawing. 3 hours. 1 credit. WALKER.

Project drawing in connection with wood and sheet metal work.

Laboratory fee: \$0.25.

Required of all first-year students in manual arts.

Dg. 201-202.—Machine Drawing. 3 hours. 2 credits. STRONG.

Detail and assembly drawings and tracings of machines and machine parts.

Prerequisite: **Dg. 101** and **Dg. 102**.

Required of all second-year students in electrical and mechanical engineering and in manual arts.

For courses in Mechanic Arts, see page 451.

ECONOMICS

Es. 201.—Principles of Economics. 3 hours. 3 credits.

A general understanding of present day economic organization; brief analysis of production, distribution, and consumption.

Required of all engineering students.

ELECTRICAL ENGINEERING

Courses in Communication are offered in cooperation with State Radio Station WRUF.

El. 201.—Elements of Electrical Engineering. 2 hours. 2 credits. SMITH.

Lectures and recitations on fundamental principles of electrical engineering. Textbook: Benton, *Introductory Textbook of Electrical Engineering*.

Prerequisite: One year of College Physics. Required of second-year students in the combined Business Administration and Engineering course.

El. 202.—Elements of Electrical Engineering. 2 hours. 2 credits. BECK.

The general course covering methods of producing electrical energy, its distribution and application, direct and alternating current motors and generators, storage batteries, communication.

Textbook: Benton, *Introductory Text of Electrical Engineering*.

Prerequisite: One year of College Physics, including electricity and magnetism.

Required of second-year students in the combined Business Administration and Engineering course.

El. 203.—Electrical Laboratory. 2 hours laboratory. 1 credit. BECK.

Laboratory work to accompany **El. 201**.

Laboratory fee: \$3.00.

Required of second-year students in the combined Business Administration and Engineering course.

El. 204.—Dynamo Laboratory. 2 hours laboratory. 1 credit. BECK.

Laboratory work to accompany El. 202.

Corequisite: El. 202.

Laboratory fee: \$3.00.

Required of second-year students in the combined Business Administration and Engineering course.

El. 305.—Elementary Radio Engineering. 2 hours, and 2 hours laboratory. 3 credits. SMITH.

Characteristics of tubes, radio frequency circuits, detection, audio frequency circuits, and amplification.

Textbook: Henney, *1931 Radio Principles*, and outside reading.

Prerequisite: One year of College Physics, including electricity and magnetism.

El. 306.—Radio Apparatus. 2 hours, and 2 hours laboratory. 3 credits. SMITH.

Theory and operation of modern receiving and transmitting sets, public address systems, and electronic devices.

Textbook: Sterling, *Radio Manual*.

Laboratory fee: \$2.00.

El. 307.—Electrical Engineering Equipment. 3 hours. 3 credits. BECK.

A course similar to the combination of El. 201 and El. 202 but slightly shorter.

Textbook: Benton, *Introductory Text of Electrical Engineering*.

Prerequisite: One year of College Physics, including electricity and magnetism.

Required of third-year students in chemical and civil engineering.

El. 309.—Dynamo Laboratory. 2 hours laboratory. 1 credit. SMITH and BECK.

Laboratory work to accompany El. 307.

Corequisite: El. 307.

Laboratory fee: \$3.00.

Required of third-year students in chemical and civil engineering.

El. 315.—Direct Current Theory and Application. 3 hours. 3 credits. WEIL and staff.

Theory, design, application of direct current apparatus and motors, controlling apparatus, armature windings, and miscellaneous applications of direct current.

Prerequisite: One year of College Physics.

Required of third-year students in electrical and mechanical engineering.

El. 317.—Alternating Current Theory and Application. 3 hours. 3 credits. WEIL.

Characteristics, design, and operation of alternating current apparatus.

Prerequisite: El. 315.

Required of third-year students in electrical and mechanical engineering.

El. 317.—Electricity and Magnetism. 2 hours, and 3 hours laboratory. 3 credits. WEIL.

Electric and magnetic circuit calculations, electrostatics, electro-magnetics, magnetic and dielectric properties of materials, varying currents.

Prerequisite: One year of College Physics, including electricity and magnetism.

Required of third-year students in electrical engineering.

Laboratory fee: \$2.00.

El. 318.—Principles of Alternating Currents. 3 hours. 3 credits. WEIL.

Representation of alternating currents by vectors and complex quantities, wave form, measurement of power, Kirchoff laws, unbalanced circuits.

Textbook: Lawrence, *Principles of Alternating Currents*.

Prerequisite: El. 315.

Required of third-year students in electrical engineering.

El. 319.—Direct Current Laboratory. 3 hours laboratory. 1 credit. SMITH and BECK.

Operation and characteristic curves, heat runs, miscellaneous testing of direct current machinery, tests of direct current control apparatus and other appliances.

Corequisite: **El. 315.**

Laboratory fee: \$5.00.

Required of third-year students in electrical and mechanical engineering.

El. 320.—Alternating Current Laboratory. 6 hours laboratory. 2 credits. SMITH and BECK.

Continuation of **El. 319** but for alternating current apparatus.

Corequisite: **El. 316.**

Laboratory fee: \$5.00.

Required of third-year students in electrical engineering.

El. 322.—Dynamo Laboratory. 3 hours laboratory. 1 credit. SMITH.

A dynamo laboratory course somewhat shorter than **El. 320.**

Corequisite: **El. 316.**

Laboratory fee: \$3.00.

Required of third-year students in mechanical engineering.

El. 405.—Telegraph Engineering. 1 hour, and 2 hours laboratory. 2 credits. WEIL and staff.

Theory of telegraphic service, telegraphic apparatus.

Textbook: Hausman, *Telegraph Engineering.*

Prerequisite: **El. 311** and **El. 313.**

Laboratory fee: \$2.00.

El. 406.—Telephone Engineering. 1 hour, and 2 hours laboratory. 2 credits. WEIL and staff.

Telephone circuits, telephone apparatus, manual and automatic switching.

Textbook: Kloeffer, *Telephone Communication.*

Prerequisite: **El. 319.**

Laboratory fee: \$2.00.

El. 409.—Electric Power Plant Design. 3 hours. 3 credits. WEIL.

The relation of various machines in the power plant with one another, switch gear, manual and automatic controls for operating apparatus, public policies and finance.

Textbook: Tarboux, *Electrical Power Plant Equipment*, and supplementary reading.

Prerequisite: At least 8 credits in electrical engineering courses.

El. 410.—Electrical Transmission and Distribution Systems. 3 hours. 3 credits. SMITH.

Efficiency, regulation surges, corona effects, and mechanical problems on transmission lines.

Prerequisite: Eight credits in electrical engineering courses.

El. 411.—D.C. Machinery and Design. 3 hours. 3 credits. WEIL.

Study and design of D.C. apparatus.

Prerequisite: **El. 315.**

Required of fourth-year students in electrical engineering.

El. 412.—A.C. Machinery and Design. 3 hours. 3 credits. WEIL.

Study and design of A.C. apparatus.

Prerequisite: **El. 316.**

Required of fourth-year students in electrical engineering.

El. 413.—Dynamo Laboratory. 6 hours laboratory. 2 credits. SMITH.

A laboratory course more advanced than **El. 319** and **El. 320.**

Corequisite: **El. 411.**

Laboratory fee: \$5.00.

Required of fourth-year students in electrical engineering.

- El. 414.—Dynamo Laboratory.** 6 hours laboratory. 2 credits. SMITH.
A laboratory course more advanced than El. 413.
Required of fourth-year students in electrical engineering.
- El. 417.—Essentials of Electrical Engineering.** 3 hours, and 3 hours laboratory. 4½ credits. SMITH.
A course more advanced than El. 204.
Prerequisite: El. 202 and El. 204.
Laboratory fee: \$5.00.
- El. 418.—Dynamo Laboratory.** 3 hours laboratory. 1½ credits. SMITH.
Additional laboratory work supplementing El. 317.
Prerequisite: El. 417.
Laboratory fee: \$5.00.
- El. 430.—Instruments and Relays.** 1 hour, and 4 hours laboratory. 3 credits. WEIL.
Design, construction and application of instruments, meters, and relations, with particular emphasis on their application and use in alternating current circuits.
Prerequisite: Eight credits in electrical engineering courses.
- El. 456.—Essentials of Electricity for Architects.** 1 hour. 1 credit. SMITH.
A general course covering wiring methods, illumination, and miscellaneous applications of electricity.
Textbooks: *National Electric Code* and *Bulletins of National Lamp Works*.

GRADUATE COURSES

- El. 501-502.—Advanced Experimental Electrical Engineering**
El. 503.—Advanced Electrical Theory
El. 504.—Electrical Measurements
El. 505-506.—Advanced Course in Radio Engineering
El. 507-508.—Radio Engineering Laboratory
El. 509.—Electric Power Plant Design
El. 510.—Electric Transmission Line Theory

ENGLISH

- En. 101-102.—Rhetoric and Composition.** 3 hours. 6 credits. No credit toward a degree will be allowed until the entire 6 credits are earned. ROBERTSON and staff.
To train students in methods of clear and forceful expression. Instruction is carried on simultaneously in formal rhetoric and in theme writing.
Required of all freshmen.

FRENCH

- Fh. 21-22.—Elementary French.** 3 hours. 6 credits. ATKIN and staff.
Course for beginners. Elements of pronunciation and grammar, reading of simple prose.
Optional for second-year chemical engineering students.

GEOLOGY

Gy. 201.—Physical Geology. 3 hours. 3 credits. HUBBELL.

The origin, materials, and structure of the earth, and the agencies which produce geological changes.

Required of third-year civil engineering students.

GERMAN

Gn. 21-22.—Elementary German. 3 hours. 6 credits. CROW.

Optional for second-year chemical engineering students.

MATHEMATICS

Ms. 151-152.—Elementary Mathematical Analysis. 3 hours. 6 credits.

No credit toward a degree will be allowed until the entire 6 credits are earned. SIMPSON and staff.

The material of college algebra, analytic geometry, and trigonometry rearranged to meet the primary needs of engineering students.

Textbook: Slichter, *Elementary Mathematical Analysis*.

Required of all regularly admitted engineering freshmen.

Ms. 253-254.—Differential and Integral Calculus. 5 hours. 10 credits. SIMPSON and staff.

The study of differentiation and integration, which, together with their numerous and widely different applications, constitute one of the most important fields of mathematics. Typical problems solved by these methods are calculation of rates of change, computation of areas, volumes, moments of inertia, energy, power, and many others. In addition, various advanced topics of special value to engineers and scientists are studied.

No credit will be allowed engineering students toward a degree until the entire 10 credits have been earned.

Prerequisite: Ms. 151-152.

Required of all sophomore engineering students.

Ms. 0420.—Differential Equations. 3 hours. 3 credits. KOKOMOOR.

The classification, solution, and application of various equations which contain expressions involving not only variables, but also the derivatives of these variables.

Textbook: Fry, *Elementary Differential Equations*.

Part of course required of junior mechanical engineering students.

MECHANIC ARTS

Mc. 101-0101.—Woodworking. 3 hours shop. 1 credit. ESHLEMAN.

Joinery. Lectures and shop work.

Shop fee: \$3.

Required of first-year engineering students and students in the combined Business Administration and Engineering course.

Mc. 104.—Shop Work. 4 hours shop. 2 credits. ESHLEMAN and JANES.

Instruction and practice in the care and use of hand tools in working wood.

Shop fee: \$1.50.

Mc. 107-108.—Woodworking. 1 hour, 6 hours shop. 6 credits. ESHLEMAN.

Instruction and practice in the care and use of hand tools in working wood.

Joinery. Wooden machine parts and machine work.

Shop fee: \$3.

- Mc. 201.—Forge Shop.** 1 hour, and 2 hours shop. 1 credit. JANES.
 Study and practice of hand and machine forging, welding and heat treating, with special reference to specifications for forging iron and steel machine-parts.
 Class room and shop.
 Shop fee: \$3.
 Required of second-year electrical and mechanical engineering students.
- Mc. 202.—Foundry.** 1 hour, and 2 hours shop. 1 credit. JANES.
 Work in moulding, core making, melting and pouring metal, using standard foundry equipment.
 Shop fee: \$3.
 Required of second-year electrical, mechanical, and third-year chemical engineering students.
- Mc. 204.—Metalworking.** 1 hour, and 2 hours shop. 1 credit. STRONG.
 Study and practice of methods of forging, molding, and machine shop work with special reference to the influence of shop-requirements on design.
 Shop fee: \$3.
 Required of second-year civil engineering students.
- Mc. 206.—Machine Shop.** 1 hour, and 2 hours shop. 1 credit. STRONG.
 Study and practice of the methods of finishing machine parts.
 Class room and shop.
 Shop fee: \$3.
 Required of second-year electrical engineering students.
- Mc. 207-208.—Carpentry.** 1 hour, and 6 hours shop. 6 credits. STRONG and staff.
 Prerequisite: Mc. 107-108.
 Shop fee: \$3.
- Mc. 209-210.—Metal Work.** 1 hour, and 3 hours shop. 4 credits. STRONG and staff.
 Sheet metal work.
 Prerequisite: Mc. 107-108.
 Shop fee: \$3.
- Mc. 211-212.—Forge and Foundry.** 1 hour, and 4 hours shop. 4 credits. STRONG and staff.
 Mc. 201 with advanced forge work and Mc. 202 with advanced foundry work.
 Prerequisite: Mc. 209-210.
 Shop fee: \$3.
- Mc. 301.—Machine Shop.** 1 hour, and 3 hours shop. 2 credits. STRONG.
 Study and practice of the methods of finishing and assembling machine parts.
 Class room and shop.
 Prerequisite: Junior Classification.
 Shop fee: \$5.
 Required of third-year mechanical engineering students.
- Mc. 304.—Patternmaking.** 1 hour, and 3 hours drawing. 2 credits. STRONG.
 Study and practice of the principles underlying the design and construction of patterns and core boxes for machine parts and other articles of cast metal.
 Class room and shop.
 Prerequisites: Mc. 101 and Mc. 202.
 Shop fee: \$3.
 Required of third-year mechanical engineering students.
- Mc. 307-308.—Cabinetwork.** 1 hour, and 6 hours shop. 6 credits. STRONG and staff.
 Prerequisite: Mc. 207-208.
 Shop fee: \$3.

- Mc. 405-406.—Cabinetwork.** 1 hour, and 6 hours shop. 6 credits.
STRONG and staff.
 Advanced cabinetwork, including furniture.
 Prerequisite: **Mc. 307-308.**
 Shop fee: \$3.

MECHANICAL ENGINEERING

- MI. 102.—Descriptive Geometry.** 2 hours. 2 credits. **WALKER** and **FINEREN.**
 Methods of representing points, lines, surfaces, and projections.
 Required of first-year engineering and pre-business students.
- MI. 202.—Mechanism.** 3 hours. 3 credits. **FINEREN.**
 Investigation of link-work, construction of gears and cams, belt and pulley drives, trains of mechanism, the velocity ratio and directional relation of the moving parts of various machines.
 Required of second-year electrical and mechanical engineering students.
- MI. 203.—General Mechanical Engineering.** 3 hours. 3 credits. **FINEREN.**
 The fundamental laws, theories, and problems of mechanism, mechanics, and strength of materials.
 Prerequisite: **Ps. 111, Ps. 113, Ps. 115.**
 Required of second-year students in the combined Business Administration and Engineering course.
- MI. 204.—General Mechanical Engineering.** 3 hours. 3 credits. **PRICE.**
 The fundamental laws, theories and problems of thermodynamics, refrigeration, and power engineering.
 Prerequisite: **Ps. 112, Ps. 114, Ps. 116.**
 Required of second-year students in the combined Business Administration and Engineering course.
- MI. 205.—General Mechanical Engineering Laboratory.** 3 hours. 1 credit. **FINEREN.**
 Laboratory exercises supplementary to **MI. 203.**
 Corequisite: **MI. 203.**
 Required of second-year students in the combined Business Administration and Engineering course.
 Laboratory fee: \$5.
- MI. 206.—General Mechanical Engineering Laboratory.** 3 hours. 1 credit. **FINEREN.**
 Laboratory exercises supplementary to **MI. 204.**
 Corequisite: **MI. 204.**
 Required of second-year students in the combined Business Administration and Engineering course.
 Laboratory fee: \$5.
- MI. 207.—Descriptive Geometry.** 4 hours drawing. 2 credits. **WALKER** and **FINEREN.**
 Solids, intersections, developments, and solution of many original problems on the drawing-board.
 Required of second-year mechanical engineering students.
- MI. 208.—Kinematics.** 1 hour, and 3 hours drawing. 2 credits. **FINEREN.**
 Drawing-board solution of problems in link-work, cams, toothed gears, slider-crank, and other mechanisms, with velocity and acceleration diagrams.
 Prerequisite: **MI. 202.**
 Required of third-year mechanical engineering students.

MI. 209.—Descriptive Geometry. 2 hours drawing. 1 credit. WALKER and FINEREN.

Solids, intersections, and developments.

Required of second-year civil and electrical engineering students.

MI. 301.—Machine Elements. 3 hours drawing. 1 credit. FINEREN.

Sizes and proportions of standard machine details, screw threads, bolts and nuts, pipes and fittings, shafting and shaft mountings, bearings, etc., as approved by practice.

Required of third-year electrical and mechanical engineering students.

MI. 302.—Machine Elements. 1 hour, and 3 hours drawing. 2 credits. FINEREN.

Design of simple machines, lectures, and working drawings.

Prerequisite: **MI. 301.**

Required of third-year electrical and mechanical engineering students.

MI. 310.—Thermodynamics. 3 hours. 3 credits. PRICE.

The laws governing the emission and reception of heat, and the transformation of heat into mechanical energy. A study of the pressure volume and the temperature entropy diagrams of various theoretical and practical cycles.

Prerequisites: **Ms. 251-252, Ps. 209, Cy. 101-102, and MI. 315.**

Required of third-year electrical and mechanical, and fourth-year chemical engineering students.

MI. 315-316.—Applied Mechanics. 4 hours, and 2 hours laboratory. 10 credits. YEATON.

(a) Statics, embracing the resolution of forces and moments; equilibrium as applied to trusses, machines, etc.; centers of gravity, moments of inertia and friction. (b) Mechanics of materials; stresses and deformation in beams, columns, pipes, machine and structural parts, with various methods of loading. (c) Kinetics, embracing inertia, centrifugal force, kinetic and potential energy.

Prerequisites: **Ms. 251-252.**

Laboratory fee: \$1 each semester.

Required of third-year engineering students.

MI. 319.—Materials of Engineering. 2 hours. 2 credits. YEATON.

A study of the properties, manufacture, and testing of brick, concrete, timber, iron, steel, alloys, and non-ferrous metals; heat treatment and modifying processes.

Prerequisites: **Ps. 105-106, Cy. 101-102.**

Required of third-year civil, electrical, and mechanical engineering students.

MI. 320.—Metallography. 1 hour, and 2 hours laboratory. 2 credits. YEATON.

A study of the iron-carbon diagram, heat treatment and use of steel and cast-iron. Laboratory periods are used for the preparation of polished and etched specimens for microscopic examination and photomicrographs.

Prerequisite: **MI. 319.**

Laboratory fee: \$5.

Required of third-year mechanical engineering students.

MI. 351.—Metallography Laboratory. 3 hours laboratory. 1 credit. YEATON.

Preparation of polished and etched specimens for microscopic examination and photomicrographs.

Corequisite: **Cy. 351.** Lectures.

Laboratory fee: \$5.

Required of fourth-year chemical engineering students as part of course **Cy. 351.**

MI. 410.—Human Engineering. 2 hours. 2 credits. PRICE.

A study of some of the problems of production engineering and certain questions of personnel management. The human factors in industry.

Prerequisite: Es. 201.

Required of fourth-year engineering students.

MI. 411.—Mechanical Design. 2 hours, and 3 hours drawing. 3 credits. PRICE.

The calculation, proportioning and detailing of machine parts, and the design of machines to perform certain functions. Steel structures, reinforced concrete, piping, and mechanical equipment of power and manufacturing plants.

Prerequisites: MI. 202, MI. 208, MI. 301, MI. 302, MI. 315, MI. 316, and MI. 319.

Required of fourth-year mechanical engineering students.

MI. 412.—Machine Design. 1 hour, and 6 hours drawing. 3 credits. PRICE.

Continuation of MI. 411.

Prerequisite: MI. 411.

Required of fourth-year mechanical engineering students.

MI. 417-418.—Mechanical Laboratory. 4 hours laboratory. 4 credits. FINEREN.

Study of gauges, thermometers, calorimeters, flow meters, indicators, dynamometers, flue-gas apparatus, and other instruments and their use in conducting tests of engines, turbines, boilers, and other mechanical equipment. Boiler tests, valve setting, power measurement, fuel tests, refrigeration tests, efficiency and heat balance calculations, with complete reports of experiments.

Prerequisite: MI. 310.

Laboratory fee: \$5 each semester.

Required of fourth-year mechanical engineering students.

MI. 420.—Mechanical Laboratory. 4 hours laboratory. 2 credits. FINEREN.

A portion of Mechanical Laboratory MI. 417-418.

Prerequisite: MI. 310.

Laboratory fee: \$5.

Required of fourth-year electrical engineering students.

MI. 421.—Power Engineering. 3 hours. 3 credits. PRICE.

The steam boiler, fuels, combustion, engines, turbines, condensing apparatus, and boiler-plant auxiliaries.

Prerequisite: MI. 310.

Required of fourth-year electrical and mechanical engineering students.

MI. 422.—Refrigeration. 3 hours. 3 credits. PRICE.

Heat transmission and refrigeration. Compression and absorption systems. The economics of power and refrigeration plant.

Prerequisites: MI. 310, MI. 419.

Required of fourth-year mechanical engineering students.

MI. 424.—Power Engineering. 3 hours. 3 credits. PRICE.

Gas and liquid fuel internal combustion engines, hot-air engines, and gas producers.

Prerequisite: MI. 310.

Required of electrical and mechanical engineering students.

MI. 427.—Aeronautics. 3 hours. 3 credits. WILSON.

The fundamentals of aircraft. The engineering requirements of mechanical flight. The aircraft power plant. Structural features of planes and dirigibles.

Prerequisites: Ps. 105, Ps. 107, Ms. 85.

ML. 428.—Aeronautics. 2 hours. 2 credits. WILSON.

Air commerce, navigation, maintenance and safety. Instruments and aviation material.

Prerequisite: ML. 427.

ML. 430.—Aerodynamics. 3 hours. 3 credits. PRICE.

The flow of compressible fluids. The airfoil. The wing and control surfaces of aircraft. Propellers, impellers, and wind channels.

Prerequisites: ML. 310, and ML. 315-316.

ML. 464.—Heating and Ventilating. 1 hour. 1 credit. YEATON.

Furnaces, boilers, heat transmission, and ventilating.

Prerequisite: Ps. 105-106.

GRADUATE COURSES

ML. 501-502.—Advanced Mechanical Design**ML. 503-504.—Mechanical Research**

MILITARY SCIENCE

My. 103-104.—Freshman Field Artillery, Compulsory. 2 hours theory and 3 hours practice. 4 credits.

The work is divided as follows: (a) Theoretical: organization-hygiene and first-aid, elementary gunnery; explosives, ammunition and fuses; military courtesy and discipline; drill and command. (b) Practical: dismounted drill ceremonies; pistol instruction; individual equipment material; 75 mm. gun drill; gunner's examination. Text: *Wilson Field Artillery Manual*. Vol. I.

My. 203-204.—Sophomore Field Artillery, Compulsory. 2 hours theory and 3 hours practice. 4 credits.

The work is divided as follows: (a) Theoretical: care of animals; map-reading and sketching; fire control instruments; communications. (b) Practical: dismounted drill; ceremonies; equitation; driving; mounted drill; reconnaissance, selection and occupation of position. Text: *Wilson Field Artillery Manual*. Vol. I.

Prerequisite: My. 103-104.

PHYSICAL EDUCATION

Pl. 101-102.—Gymnastics. 2 hours. 1 credit. HASKELL and staff.

Instruction given in free exercises for general development and muscular coordination. Elementary work on apparatus, emphasizing form, approach, and execution.

Instruction and play in tennis, football, baseball, basketball, playground ball, and track.

PHYSICS

Ps. 105-106.—Theory of Mechanics, Heat, Sound, Electricity, and Light. 4 hours. 6 credits. Credit will be given for the first semester without the second, if the student so desires; however, the second semester cannot be taken without the first. PERRY in charge.

General Physics, designed primarily for engineering students, open to any student having the necessary prerequisites.

Required of Engineering students.

Prerequisite: Trigonometry.

Ps. 107-108.—General Laboratory Physics. 4 hours laboratory. 4 credits. PERRY in charge.

Fundamental experiments in mechanics, heat, sound, electricity, and light, supplementing Ps. 105-106.

Required of engineering students.

Laboratory fee: \$3 each semester.

OTHER DEPARTMENTS

For a description of courses offered in other departments, see the bulletin of the college of which the department is a part.

THE UNIVERSITY CALENDAR

1932-1933

First Semester

- September 9, 10, Friday-Saturday.....Entrance examinations.
 September 12, Monday, 11:00 a.m.....1932-33 session begins.
 September 12-17, Monday-SaturdayFreshman Week.
 September 16-17, Friday-Saturday
 noonRegistration of upperclassmen.
 September 19, Monday 8:00 a.m.....Classes for 1932-33 session begin; late
 registration fee, \$5.
 September 24, Saturday 12:00 noon.....Last day for changing course without
 paying the \$2 fee.
 September 24, Saturday 12:00 noon.....Last day for registration for the first
 semester 1932-33.
 November 11, Friday.....Armistice Day; special exercises but
 classes are not suspended.
 November 23, Wednesday 5:00 p.m.....Thanksgiving recess begins.
 November 28, Monday 8:00 a.m.....Thanksgiving recess ends.
 December 17, Saturday 12:00 noon.....Christmas recess begins.

1933

- January 2, Monday 8:00 a.m.....Christmas recess ends.
 January 23, Monday 8:00 a.m.....Final examinations for the first se-
 mester begin.
 January 29, Sunday.....Baccalaureate Sermon.
 January 30, Monday 10:00 a.m.....Commencement Convocation.
 February 1, Wednesday.....Inter-Semester Day, a holiday.

Second Semester

- February 2-3, Thursday-Friday.....Registration for second semester; all
 students whose names begin with "A"
 through "M" register on Thursday; all
 others on Friday.
 February 4, Saturday 8:00 a.m.....Classes for second semester begin;
 change of course fee, \$2; late registra-
 tion fee, \$5.
 February 10, Friday 5:00 p.m.....Last day for registration for second
 semester.
 April 5, Wednesday 5:00 p.m.....Spring recess begins.
 April 10, Monday 8:00 a.m.....Spring recess ends.
 May 25, Thursday 8:00 a.m.....Final examinations begin.
 June 3-5, Saturday-Monday.....Commencement Exercises.

Entrance Examinations

Entrance examinations for admission to the various colleges of the University will be conducted for students whose credits do not meet the requirements.

Candidates wishing to take any of these examinations should notify the Registrar in writing, not later than September 1, January 15, or June 1.

For further information concerning these examinations see the *Bulletin of General Information*.

The University Record

of the

University of Florida

Bulletin of the

College of Arts and Sciences

With Announcements for the Year

1932-33



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The Reports of the President and the Board of Control, the Bulletin of General Information, the annual announcements of the individual colleges of the University, announcements of special courses of instruction, and reports of the University Officers.

These bulletins will be sent gratuitously to all persons who apply for them. The applicant should specifically state which bulletin or what information is desired. Address

THE REGISTRAR
University of Florida
Gainesville, Florida

Research Publications.—Research publications will contain results of research work. Papers are published as separate monographs numbered in several series.

There is no free mailing list of these publications. Exchanges with institutions are arranged by the University Library. Correspondence concerning such exchanges should be addressed to the University Librarian, University of Florida, Gainesville, Florida. The issue and sale of all these publications is under the control of the Committee on Publications. Requests for individual copies, or for any other copies not included in institutional exchanges, should be addressed to the University Library, University of Florida, Gainesville, Florida.

The Committee on University Publications
University of Florida
Gainesville, Florida

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FACULTY OF THE COLLEGE OF ARTS AND SCIENCES

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 BERNARD FRANCIS DOSTAL, Assistant Professor
 SAM W. MCINNIS, M.A., Instructor
 ZAREH MEGUERDITCH PIRENIAN, M.S., Assistant Professor
 URI PEARL DAVIS, M.A., Instructor

DEPARTMENT OF PHILOSOPHY

HASSE OCTAVIUS ENWALL, Ph.D., Head Professor

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 ARTHUR AARON BLESS, Ph.D., Associate Professor
 HAROLD LORAIN KNOWLES, Ph.D., Instructor
 DANIEL C. SWANSON, B.S., Instructor
 HERBERT B. MESSEC, Curator

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 OSBORNE WILLIAMS, Ph.D., Assistant Professor
 VERNE E. WILSON, M.A., Instructor

DEPARTMENT OF SOCIOLOGY

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 THOMAS JEFFERSON HIGGINS, M.A., Instructor
 FRANCIS MARION DEGAETANI, B.A.E., Instructor

DEPARTMENT OF SPEECH

HENRY PHILIP CONSTANS, M.A., Associate Professor and Head of Department
 ARTHUR ARIEL HOPKINS, M.A., Assistant Professor

GENERAL INFORMATION

PURPOSE

Until about 1850 the classical course, leading to the Bachelor of Arts degree, was practically the only type of college course offered in the United States. Since that time there has been rapid expansion in American universities. Courses have been devised to meet almost every conceivable need. The College of Arts and Sciences remains, however, the nucleus which unifies the whole. The objectives attained by the College of Arts and Sciences are varied. In the main, we may say that the primary purpose of the College of Arts and Sciences is to interpret that vast body of experience which has grown to its present vigor and stature through all the centuries of civilization, based on the theory that the younger generation can know the richness and fullness of life only by learning that which has been of sufficient worth to survive the selective processes of time. Coincidentally with the attainment of this primary purpose, the College of Arts and Sciences stands for breadth of training and depth of development. The value of such training is so clearly recognized by those who are successful in many professions that it is a prerequisite of those who wish to enter upon professional studies.

FEES

For information regarding fees and expenses, see the *Bulletin of General Information* for 1932-1933, pages 159-164. No special fees are assessed for study in the College of Arts and Sciences except for laboratory courses, as shown in the section entitled "Departments of Instruction", in this bulletin.

SCHOLARSHIPS

A number of scholarships and loan funds are available to students in the College of Arts and Sciences. For information concerning these, see the *Bulletin of General Information* for 1932-1933, pages 165-171.

SOCIETIES

The Farr Literary Society is the oldest society on the campus. Its meetings are held weekly and are open to all students of the College of Arts and Sciences. Every student is given an opportunity to train himself in oratory and debate, to become acquainted with those who are interested in these fields of activity, and to discuss problems of interest to all students in the College.

The Leigh Chemical Society is an organization of students taking courses in the Department of Chemistry. Its monthly meetings are designed to stimulate the interest of beginning students in Chemistry and to stress the importance of the chemical industry.

The International Relations Club is sponsored by the Carnegie Endowment for International Peace. It is open to all students with good scholarship records who are desirous of obtaining an understanding of the many problems which are pressing upon the world today. Meetings are held on the second and fourth Thursdays of each school month.

The Mathematics Colloquium is open to all students who are interested in mathematics. The meetings are held bi-weekly.

PLACEMENT BUREAU

The Bureau of Placements, which is under the direction of the Dean of Students, seeks to help all graduates in securing positions.

SUMMER SESSION

The College of Arts and Sciences offers a large number of courses in the Summer Session of the University. For information concerning these courses, see the *Bulletin of the Summer Session*, copies of which may be obtained from the Office of the Registrar.

GENERAL REGULATIONS

CORRESPONDENCE STUDY

Students who are registered in the College of Arts and Sciences will not be allowed to carry on correspondence study while in residence in the University. While in residence, students may neither begin new correspondence studies nor complete studies already begun.

STUDENT RESPONSIBILITY

Each student must assume full responsibility for registering for the proper courses and for fulfilling all requirements for his degree. Students should confer with the Dean of the College regarding their choice of courses several days before registration; in addition to this, juniors and seniors should confer with the head of the department in which they expect to earn a major. Seniors must file, in the Office of the Registrar, formal application for a degree and must pay the diploma fee very early in the semester in which they expect to receive the degree; the official calendar shows the latest date on which this can be done.

Each student is responsible for every course for which he registers. Courses can be dropped or changed without penalty only through the office of the Dean of the College.

The rules and regulations of the University are published in a separate bulletin entitled *By-Laws of the University of Florida*, copies of which are distributed to all who register at the University. Each student is held responsible for the observance of the rules and regulations of the University in so far as they affect him.

ADMISSION

For full information concerning the general requirements for admission to the University of Florida, the prospective student should consult the *Bulletin of General Information* for 1932-1933, pages 149-158.

SPECIAL REQUIREMENTS

For the course leading to the degree of Bachelor of Arts and the Bachelor of Arts course in combination with Law, the candidate must present two units in Latin. However, if a candidate presents two units in some other foreign language he may be admitted, but he must then fulfill the Latin requirement by obtaining twelve credits in Latin during his first two years in the University. These credits may be applied to his degree.

For the course leading to the Degree of Bachelor of Science, the Bachelor of Science course in combination with Law, the Pre-Medical or Pre-Dental courses, two units in one foreign language will be required, unless the candidate presents a total of four units from the following groups of courses.*

History and Social Sciences

- Ancient history, one unit
- English history, one unit
- Medieval history, one unit
- American history, one-half or one unit
- Civics, one-half or one unit
- Sociology, one-half unit
- Economics, one-half unit

Natural Science

- Biology, one unit
- Botany, one-half unit
- Chemistry, one unit
- General science, one unit
- Physical geography, one unit
- Physics, one unit
- Physiology, one-half or one unit
- Zoology, one-half unit.

Recommendation.—All candidates for admission to the College of Arts and Sciences are advised to present one-half unit in trigonometry. Candidates for the Pre-Medical and Pre-Dental courses, are advised to present one unit in physics.

SPECIAL STUDENTS

Persons twenty-one or more years of age who cannot satisfy the entrance requirements, but who give evidence of ability to profit by the courses they may take, may, under exceptional circumstances, be admitted as "Adult Special" students. They are required to comply with the same regulations as the regular students.

The College of Arts and Sciences strongly discourages the registration of "Adult Special" students. It is felt that every student in the College ought to regularize himself if such is at all possible.

*Note: One unit in foreign language is never accepted to fulfill entrance requirements. Only one unit will be accepted in biology, botany, and zoology combined.

DEGREES

DESCRIPTION OF CURRICULA

The College of Arts and Sciences offers five essentially different curricula. The following summaries will give the student some idea of the type of work done in each of these five courses of study.

The course of study leading to the degree of Bachelor of Arts.—This is a four-year course in which the humanities and social sciences are emphasized. The study of foreign language is given prominence, both ancient and modern languages being offered. College English, foreign language, history, and mathematics are required of every student electing this course, and to insure some understanding of scientific fact and method, every student is required to study a basic year-course in one of the natural sciences, in addition to which he may elect a limited amount of additional work in natural science if he so desires.

The course of study leading to the degree of Bachelor of Science.—Students who are interested primarily in the sciences may hope to gain a thorough introduction to the natural sciences and a working grasp of scientific methods by pursuing this four-year curriculum. Each student must select one science in which he is expected to gain a mastery. A limited amount of foreign language study is required in order that the student may have a reading knowledge of scientific writings from other countries. The candidate for the Bachelor of Science degree is also expected to acquire breadth of viewpoint and training by devoting some time to the study of mathematics, English, and kindred subjects.

The Combined Academic and Law Course.—The student may earn the degree of Bachelor of Arts or Bachelor of Science, together with a degree in law, by three years of intensive study in the College of Arts and Sciences, followed by three years of study in the College of Law. The Bachelor's degree in Arts and Sciences will be conferred only after the candidate has satisfactorily completed the first year of law. Attention should be called to the fact that one of the requirements for the degree of Juris Doctor is that the candidate possess the Bachelor of Arts degree or its equivalent.

The Pre-Medical Course.—A pre-medical course is offered to meet the requirements of American medical schools. The studies of the first year are prescribed in accordance with the basic requirements for admission to these schools. The remainder of the course is determined for the individual student by the requirements for admission to the medical school which he wishes to attend. Emphasis is placed on a good foundation in biology and physics, while special emphasis is given to the study of chemistry.

The Pre-Dental Course.—For most students this course is identical with the first year of the Pre-Medical Course. The student should correspond with the dean of the dental college which he wishes to enter, however, in order that he may know the exact requirements for entrance to that college. Every legitimate effort will be made to meet these requirements within one academic year, unless the dental college specifies a longer period of pre-dental training.

REQUIREMENTS OF THE DIFFERENT CURRICULA

GROUPS

The courses offered in the College of Arts and Sciences are classified in four groups for the purpose of describing the requirements for degrees. On pages 474 and 478 the reader will find reproductions of the cards on which records are checked. On page 472 the central portion of one of these cards is reproduced and the courses offered in the College are shown in their proper groups. For example, all courses in French are entered and counted in Group II, while all courses in Bible are entered and counted in Group III. It sometimes happens that not all the courses offered in a given department are entered in one group. For example, all courses offered in the Department of Ancient Languages under Greek are entered and counted in Group II, *except* Greek 205 and Greek 206; these two courses are entered and counted in Group III. In the section entitled "Departments of Instruction", pages 484 to 519 of this bulletin, the group in which each course is entered, and in which credit for the course is counted, is given with the description of the course. These groups will be referred to by number as shown in the reproduction on page 472.

REQUIREMENTS OF THE COURSE LEADING TO THE DEGREE OF
BACHELOR OF ARTS

On page 474 the reader will find a reproduction of the card on which records are checked for the Bachelor of Arts degree. At the bottom of the card will be found the courses which are required and the number of semester credit hours required in the different groups. If the student passed Latin 21-22, Latin 31-32, Mathematics 85 (trigonometry) before coming to the University, he should not repeat them, and were he to repeat them he would be granted no credit for so doing. For those who desire a more detailed description of the requirements for the Bachelor of Arts degree the following outline is given.

IN GROUP I

Military Science (see freshman year).....	4
Physical Education 101 and 102 (see freshman year).....	2
Military Science (see sophomore year).....	4
	—
Total in Group I.....	10

Students exempt from Military Science, or from Physical Education, or from both, for any reason whatever must, in order to receive a degree, earn an equal number of semester credit hours in some other group or groups. Choice of these subjects must in all cases be approved by the Dean.

IN GROUP II

Twenty-four semester credit hours of which 12 must be in subjects numbered as high as 100 must be earned. University credit for a single year in any foreign language will be counted toward the fulfillment of this requirement but the student is advised to continue the study of the language for at

SUBJECT	MATHEMATICS				LIBRARY				LANGUAGE				SCIENCE				SCHOLASTIC RECORD OF				FIRST NAME	SECOND NAME	SURNAME
	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th			
CREDIT																							
STUDENT																							
NAME																							

YEAR	GROUP I IN ELECTIVE UNIT				GROUP II IN ELECTIVE UNIT				GROUP III				GROUP IV				TOTAL YEARS				
	COURSE	1st	2nd	3rd	COURSE	1st	2nd	3rd	COURSE	1st	2nd	3rd	COURSE	1st	2nd	3rd					
TOTALS																					
CREDITS OBTAINED	10				24				36				24				134				
COURSES OBTAINED	PHY ED 101 PHY ED 102 PHY ED 103 PHY ED 104 PHY ED 201 PHY ED 202 PHY ED 204				LATIN 21, LATIN 31 LATIN 32 FIRST 100 COURSE SECOND 100 COURSE TWO COURSES 12 HRS				ENGLISH 101 ENGLISH 102 ENGLISH 103 ENGLISH 104 HISTORY 101 HISTORY 102				MATHEMATICS 85 MATHEMATICS 101 LABORATORY LABORATORY SCIENCE				AT LEAST 19 HRS. THE CREDIT ABOVE FOUNDATION COURSE MAJOR APPROVED DATE: 193... HEAD, MAJOR DEPT.				

least two years. No credit will be allowed for courses taken in the University which duplicate, either in whole or in part, courses passed before coming to the University.

IN GROUP III

English 101 and 102 (see freshman year).....	6
English 103 and 104 (see freshman year).....	6
History 101 and 102 (see freshman year).....	6
Electives from Group III.....	20
	<hr/>
Total in Group III.....	38

IN GROUP IV

Mathematics 101 and 102 (see freshman year).....	6
Either Biology 101 and 104, or Biology 101 and 0201, or Biology 121 and 122, or Botany 104, or Chemistry 101 and 102, or Physics 101, 102, 103, and 104 (see sophomore year).....	8 or 10
or Physics 105, 106, 107, and 108, Electives from Group IV.....	10 or 8
	<hr/>
Total in Group IV.....	24

A student who is required to study trigonometry in the University may count the credit earned as part of the 24 credit hour total required in this group. If he earned credit for trigonometry before coming to the University, he cannot take it again for credit.

IN GROUPS II AND III AND PURE MATHEMATICS

A total of 24 semester credit hours over and above those already listed under Group II, Group III, and Group IV must be earned. The student is free to choose the studies in which these credits are to be earned, subject only to the restriction that they must be from Groups II and III and pure Mathematics and that they must meet the approval of the Dean.

TOTAL CREDITS REQUIRED

In addition to the above the student must earn enough credit to make a total of not less than 134 semester credit hours acceptable to the faculty of the College of Arts and Sciences. These additional credits may be selected from any one or more of the four groups, subject only to the approval of the Dean.

MAJOR

Included in the work of Group II, or Group III, or pure Mathematics, the student must complete a major. The majors are described on pages 431 to 433, inclusive.

RESIDENCE

At least the last 30 semester credit hours must be earned in residence at this University.

FRESHMAN AND SOPHOMORE YEARS

Freshmen and sophomores taking the Bachelor of Arts Course are generally expected to follow the programs given below. Deviation from these programs is permissible only when the student can show cause satisfactory to the Dean.

FRESHMAN YEAR

First Semester		Second Semester	
Names of Courses	Credits	Names of Courses	Credits
English 101	3	English 102	3
English 103	3	English 104	3
Foreign Language	3	Foreign Language	3
History 101	3	History 102	3
Freshman Mathematics	3	Freshman Mathematics	3
Military Science 103	2	Military Science 104	2
Physical Education 101	1	Physical Education 102	1
	—		—
	18		18

Greek 21 and 22 may be substituted for History 101 and 102 in the freshman year; History 101 and 102 must then be taken in the sophomore year.

PLACEMENT EXAMINATIONS

Every freshman is required to take a placement examination in English during Freshman Week. If he passes this examination he will be admitted to English 101. If he fails the placement examination he must register for and pass English 21 before he will be admitted to English 101; furthermore, he will not be permitted to study foreign language until he is eligible to be registered in English 101. No credit is given for English 21.

Every freshman is required to take a placement examination in Mathematics at the end of the second week. If he fails this examination he must register for and pass Mathematics 21 before he will be admitted to college mathematics. If he passes the placement examination and does not have credit for trigonometry he will be registered for Mathematics 85; if he passes the placement examination and has credit for trigonometry he will be registered for Mathematics 101. No credit is allowed for Mathematics 21. College credit in trigonometry will count toward the degree.

SOPHOMORE YEAR

First Semester		Second Semester	
Names of Courses	Credits	Names of Courses	Credits
Either Biology 101 or Biology 121 Or Chemistry 101 Or Physics 101 and 103 Or Physics 105 and 107	5	Either Biology 104 or 0201 or 122 Or Botany 104 Or Chemistry 102 Or Physics 102 and 104 Or Physics 106 and 108.....	5 or 4
Group II	3	Group II	3
Group III	3	Group III	3
Group II or III or IV.....	3	Group II or III or IV.....	3
Military Science 203	2	Military Science 204	2
	—		—
	16		16 or 15

REQUIREMENTS OF THE COURSE LEADING TO THE DEGREE OF BACHELOR OF SCIENCE

On page 478 the reader will find a reproduction of the card on which records are checked for the Bachelor of Science degree. At the bottom of the card will be found the courses which are required and the number of semester credit hours required in the different groups. If the student passed trigonometry (Mathematics 85) before coming to the University, he should not repeat it, and were he to repeat it he would be granted no credit for so doing. For those who desire a more detailed description of the requirements for the Bachelor of Science degree the following outline is given.

IN GROUP I

Military Science (see freshman year).....	4
Physical Education 101 and 102 (see freshman year).....	2
Military Science (see sophomore year)	4
	<hr style="width: 10%; margin-left: auto; margin-right: 0;"/>
Total in Group I.....	10

Students exempt from Military Science, or from Physical Education, or from both, for any reason whatever, must, in order to receive a degree, earn an equal number of semester credit hours in some other group or groups. Choice of these subjects must in all cases be approved by the Dean.

IN GROUP II

Eighteen semester credit hours of which 6 must be in a subject numbered as high as 100 must be earned. College credit for a single year in any foreign language will be counted toward the fulfillment of this requirement, but the student is advised to continue the study of the language for at least two years. No credit will be allowed for courses taken in the University which duplicate, either in whole or in part, courses passed before coming to the University.

IN GROUP III

English 101 and 102 (see freshman year).....	6
Electives from Group III.....	24
	<hr style="width: 10%; margin-left: auto; margin-right: 0;"/>
Total in Group III.....	30

IN GROUP IV

Mathematics 101 and 102 (see freshman year).....	6
Biology 101 and 104, or Biology 101 and 0201.....	10
Chemistry 101 and 102.....	10
Physics 105, 106, 107, and 108, or	
Physics 111, 112, 115, and 116 (see sophomore year).....	10
Electives from Group IV.....	18
	<hr style="width: 10%; margin-left: auto; margin-right: 0;"/>
Total in Group IV.....	54

A student who is required to study trigonometry in the University may count the credit earned as part of the 54 semester credit hour total required in this group. If the student earned credit for trigonometry before coming to the University, he cannot take it again for credit.

TOTAL CREDITS REQUIRED

In addition to the above the student must earn enough credit to make a total of not less than 134 semester credit hours acceptable to the faculty of the College of Arts and Sciences. These additional credits may be selected from any one or more of the four groups, subject only to the approval of the Dean.

MAJOR

Included in the work of Group IV the student must complete a major. The majors are described on pages 481 to 483, inclusive.

RESIDENCE

At least the last 30 semester credit hours must be earned in residence at this University.

FRESHMAN AND SOPHOMORE YEARS

Freshmen and sophomores taking the Bachelor of Science course are generally expected to follow the programs given below. Deviation from these programs is permissible only when the student can show cause satisfactory to the Dean.

FRESHMAN YEAR

First Semester		Second Semester	
Names of Courses	Credits	Names of Courses	Credits
Chemistry 101	5	Chemistry 102	5
English 101	3	English 102	3
Foreign Language	3	Foreign Language	3
Mathematics 101	3	Mathematics 102	3
Military Science 103	2	Military Science 104.....	2
Physical Education 101	1	Physical Education 102.....	1
	17		17

If the student prefers to take biology or physics in his freshman year he may do so, provided he obtains the consent of the Dean and of the head of the department offering the course he wishes to take. The course in Chemistry must then be taken in the sophomore year.

PLACEMENT EXAMINATIONS

Every freshman is required to take a placement examination in English during Freshman Week. If he passes this examination he will be admitted to English 101. If he fails the placement examination he must register for and pass English 21 before he will be admitted to English 101; furthermore, he will not be permitted to study foreign language until he is eligible to be registered in English 101. No credit is given for English 21.

Every freshman is required to take a placement examination in Mathematics at the end of the second week. If he fails this examination he must register for and pass Mathematics 21 before he will be admitted to college mathematics. If he passes the placement examination and does not have

credit for trigonometry he will be registered for Mathematics 85; if he passes the placement examination and has credit for trigonometry he will be registered for Mathematics 101. No credit is allowed for Mathematics 21. College credit in trigonometry counts toward the degree.

SOPHOMORE YEAR

First Semester		Second Semester	
Names of Courses	Credits	Names of Courses	Credits
Either Biology 101, or Physics 105 and 107, or Physics 111, and 115.....	5	Either Biology 104 or 0201, or Physics 106 and 108, or Physics 112, and 116.....	5
Group II	3	Group II	3
Group III	3	Group III	3
Group II, III, or IV.....	3	Group II, III, or IV.....	3
Military Science 203	2	Military Science 204	2
	16		16

It will be noted that the student will have taken foundation courses in two of the three fields, biology, chemistry and physics, in the freshman and sophomore years. The foundation course in the third of these fields must be taken in the junior year.

REQUIREMENTS OF THE COMBINED ACADEMIC AND LAW COURSE

In order to earn the degree of Bachelor of Arts, or the degree of Bachelor of Science, in the combined academic and law course, the student must fulfill all requirements of the course leading to the degree for which he is working, counting not more than 24 semester credit hours of law as free electives in the College of Arts and Sciences. The degree in the College of Arts and Sciences will not be conferred until the student has satisfactorily completed one year of study in the College of Law.

During the semester, and preferably during the year in which he expects to receive the degree of Bachelor of Arts or the degree of Bachelor of Science, the student must be registered in the College of Arts and Sciences as well as in the College of Law, although his studies may be confined to the College of Law.

THE PRE-MEDICAL AND PRE-DENTAL COURSES

In the first pages of this bulletin, the need for good foundation training for those expecting to enter the professions is noted. The best evidence of this, however, is the testimony of those vitally interested in the professions *per se*. The Dean of one of the leading schools of medicine very kindly gave us permission to print the following from the current issue of that university's catalog.

"In no profession is a broad cultural and scientific training of greater advantage than in the profession of medicine and prospective students are urged not to take up the study of medicine with only the bare preparation which will satisfy minimum Association require-

ments. The best preparation is that represented in a standard four-year college course, which includes thorough training in English, chemistry, physics, biology, history, Latin, sociology, and psychology, and a reading knowledge of German or French."

It is strongly urged that students preparing for the study of medicine earn the Bachelor of Science degree. However, the student who cannot earn the Bachelor of Science degree can take the first-year course described below, after which the work will be selected on the basis of the requirements of the medical school to which he expects to apply for admission.

First Year			
First Semester		Second Semester	
Names of Courses	Credits	Names of Courses	Credits
Biology 101	5	Biology 104	5
Chemistry 101	5	Chemistry 102	5
English 101	3	English 102	3
Mathematics 85 or 101	3	Mathematics 101 or 102	3
Military Science 101	2	Military Science 102	2
Physical Education 101	1	Physical Education 102	1
	—		—
	19		19

It should be kept in mind constantly that emphasis should be placed on cultural subjects as well as on scientific subjects.

REQUIREMENTS OF THE PRE-DENTAL COURSE

In general this course is a one-year course the requirements of which are identical with the first year of the Pre-Medical Course. Students desiring pre-dental training should correspond with the dental college of their choice several weeks before coming to this university. As far as possible, the Pre-Dental Course will be modified to meet the needs of the individual.

REQUIREMENTS FOR THE MAJORS

Under each department name below will be found the minimum work for which the student must earn credit in order to have a major in that department. Obviously, the student may take as much more work in the department as his own inclination and circumstances permit. As soon as he has decided upon his major department the student should confer with the head of that department regarding his courses.

BIOLOGY

Two majors are offered, each requiring a minimum of 30 semester hours. One, designed for students expecting to enter medicine, consists of Bly. 101, 104, 211, 308, 415 and 5 elective hours; the other, designed for students looking toward graduate or professional work in Biology, consists of Bly. 101, 104, 0201, either 0202 or 311-312, 402 and elective hours from either other Biology courses or from Geology. In either case the electives must be approved by the Head of the Department.

CHEMISTRY

Chemistry 101-102, 232, 203, 305, and 361-362.

ECONOMICS

Economics 101-102, 201-202, and 12 semester hours from other courses in the Department of Economics. The selection of courses must be approved by the Head of the Department.

ENGLISH

English 101-102, 103-104, 201-202, 301-302, and one of the senior courses in the Department of English.

FRENCH

French 101-102 and 18 semester hours of work of higher level in the Department of French, of which at least 6 semester hours must be in composition and conversation. French 107-108 does not count toward a major.

GEOLOGY

No major is offered in Geology. See Biology.

GERMAN

The student must earn or have credit for German 102 and he must earn a total of 24 semester hours of college credit in the Department of German. The selection of courses must meet the approval of the Head of the Department.

GREEK

Twenty-four semester credit hours in courses approved by the Head of the Department. Usually grammar and prose composition are required.

HISTORY

History 101 and 102 and 18 semester credit hours in other courses in history in the Department of History and Political Science.

HISTORY AND POLITICAL SCIENCE

History 101-102 and Political Science 101-102 and 18 semester credit hours of other work in the Department of History and Political Science.

LATIN

Twenty-four semester credit hours in courses approved by the Head of the Department. Usually grammar and prose composition are required.

MATHEMATICS

Mathematics 101-102, or their equivalents, and 18 semester hours selected from courses offered by the Department of Mathematics. The courses selected must include calculus and the selection must meet the approval of the Head of the Department.

PHILOSOPHY

Not less than 24 semester hours in the Department of Philosophy. Any two of the beginning courses should be taken, after which the following courses should be taken in order, as far as that can be arranged: Logic, Advanced Logic, Philosophy of Nature, and Ethics. For the two beginning courses Philosophy 303 and 304 are recommended.

PHYSICS

A general introductory course in college physics, preferably Physics 111, 112, 115, 116, followed by the intermediate courses in light, heat, electricity and magnetism, and mechanics. The student must earn at least 28 semester hours credit in the Department of Physics. In addition to the required courses in chemistry and mathematics, it is urged that the student take calculus and differential equations.

POLITICAL SCIENCE

Political Science 101-102 and 18 semester credit hours in other courses in political science in the Department of History and Political Science.

The major in political science and history is described above.

PSYCHOLOGY

Twenty-four semester hours in the Department of Psychology, including Psychology 201, 304, 309, 310, and 424.

SOCIOLOGY

Twenty-four semester credit hours in the Department of Sociology. The selection of courses must be approved by the Head of the Department. The following courses are recommended: Sociology 111, 112, 303-304 or 381-382, 441, 442. It is also recommended that the student take the following courses, although they do not count in the above 24 semester credit hours: Psychology 201 and Economics 201-202.

SPANISH

The student must earn or have credit for Spanish 102 and he must earn a total of 24 semester hours of college credit in the Department of Spanish; the selection of courses must meet the approval of the Head of the Department.

SPEECH

The work in the Department of Speech is divided into two classes, as follows:

Class A. Speech 203, 204, 212, 214, 301, 305, 306.

Class B. Speech 207, 208, 303, 304, 403, 404.

All students majoring in Speech are required to complete Speech 201-202. If the student majoring in Speech is primarily interested in original speaking, he should elect at least 12 semester hours from Class A and a minimum of 6 semester hours (preferably Speech 207 and 404) from Class B. If the student is primarily interested in the interpretative and dramatic aspects of Speech, he should elect at least 12 hours from Class B and a minimum of 6 semester hours (preferably Speech 203, 214, and 301) from Class A.

DEPARTMENTS OF INSTRUCTION

Subjects with odd numbers are offered in the first semester and subjects with even numbers are offered in the second semester unless the number begins with 0, in which case the reverse is true.

The number of hours given is the number of hours which the class meets per week.

The number of credits is the number of semester credit hours earned by each student who receives a passing grade (A, B, C, or D) when the subject is completed. Unless specifically stated, credit will be allowed for one semester of a year course.

Subjects numbered 200 or above are not as a rule open to freshmen; subjects numbered 300 or above are not as a rule open to sophomores; subjects numbered 400 or above are not as a rule open to juniors; subjects numbered 500 or above are for graduate students.

The abbreviations used are wherever possible the first and last letter of the first word of the department name. Occasionally, a third central letter is added to distinguish between departments where first and last letters are identical.

BACTERIOLOGY

Bcy. 301.—General Bacteriology. 2 hours, and 4 hours laboratory. 4 credits. Group IV. CARROLL.

Morphology, physiology and cultivation of bacteria and related micro-organisms.

Prerequisites: **Bty. 101, Bly. 101, Cy. 253** or equivalents.

Laboratory fee: \$5.

Bcy. 302.—Agricultural Bacteriology. 2 hours, and 4 hours laboratory. 4 credits. Group IV. CARROLL.

Bacteria and associated micro-organisms in relation to water, milk, soil, silage and farm problems.

Prerequisite: **Bcy. 301.**

Laboratory fee: \$5.

Bcy. 304.—Pathogenic Bacteriology. 2 hours, and 4 hours laboratory. 4 credits. Group IV. CARROLL.

Recognition, culture, and special laboratory technique of handling pathogens and viruses. Theories and principles of immunity and infection.

Prerequisite: **Bcy. 301.**

Laboratory fee: \$5.

Bcy. 306.—Bacteriology of Foods. 2 hours, and 4 hours laboratory. 4 credits. Group IV. CARROLL.

Relation of bacteria, yeast, molds, and other micro-organisms commonly found in foods.

Prerequisite: **Bcy. 301.**

Laboratory fee: \$5.

Bcy. 308.—Sanitary Laboratory Practice. 1 hour, and 4 hours laboratory. 3 credits. Group IV. CARROLL.

Problems in sewage and public sanitation, designed primarily for sanitary engineers.

Desirable antecedents: Some knowledge of biology, chemistry, bacteriology, and physics.

Laboratory fee: \$5.

Bcy. 401.—Clinical Bacteriology. Hours to be arranged. 4 credits.
Group IV. CARROLL.

Laboratory practice on special problems preparing for technical expert in field of biological activities of bacteria and related micro-organisms. Animal experimentation and immunology upon pathogens. Work assigned to specific pathogens. A prerequisite to research in clinical bacteriology.

Prerequisite: **Bcy. 304.**

Laboratory fee: \$5.

GRADUATE COURSES

Bcy. 501-502.—Problems in Soil Bacteriology

Bcy. 503-504.—Problems in Dairy Bacteriology

Bcy. 505-506.—Problems in Pathogenic Bacteriology

Bcy. 507-508.—Problems in Bacteriology of Water and Sewage

BIBLE

Be. 211.—Survey of New Testament Writings. 3 hours. 3 credits.
Group III. JOHNSON.

A general survey of the New Testament writings, dealing with their authorship, occasion, purpose, and content.

Be. 212.—The Life of Jesus. 3 hours. 3 credits. Group III. JOHNSON.

A study of the Gospels, to introduce the student to the main facts of the life of Jesus.

Be. 205.—Old and New Testament Greek. 3 hours. 3 credits. Group III. ANDERSON.

See **Gk. 203.**

Be. 301.—The English Bible as Literature. Hours and credits to be arranged. Group III. FARR.

Literary types found in the Bible, and the excellence of the work as compared with other great examples of literature.

See also Philosophy 302.

BIOLOGY

Bly. 101 or 0101.—Principles of Animal Biology. 2 hours, 1 hour recitation, and 4 hours laboratory. 5 credits. Group IV. BYERS, HUBBELL, SHERMAN.

An introduction to the subject matter and principles of zoology.

A prerequisite for all other courses in this department except **Bly. 0105, 121, and 122.** Required of first year Pre-Medical, and Agricultural students and of all B.S. students.

Laboratory fee: \$5.

Bly. 104.—Comparative Vertebrate Anatomy. 2 hours, 1 hour recitation, 4 hours laboratory. 5 credits. Group IV. SHERMAN.

A comparative study of the anatomy of the main classes of vertebrates.

Prerequisite: **Bly. 101.**

Required of first year Pre-Medical students.

Laboratory fee: \$5.

Bly. 0105.—Elementary Anatomy and Physiology. 2 hours. 2 credits.

Not open to students in the College of Arts and Sciences.

SHERMAN.

The elements of vertebrate anatomy, with an introduction to the physiological systems of man.

Open to Pharmacy students only.

Demonstration fee: \$2.

Bly. 110.—Biological Laboratory Methods. 1 hour, and 4 hours laboratory. 2 credits. Group IV. ROGERS and GIOVANNOLI.

Instruction and practice in some of the methods and techniques employed in the biological laboratory, particularly microscopic preparations, culturing laboratory animals, and the use of the microscope and its accessories.

This course is intended primarily for students who expect to qualify for assistantships in the Department or to teach laboratory courses in biology.

Prerequisite: **Bly. 101** and permission of the instructor.

Laboratory fee: \$5.

Bly. 121.—The Natural History of the Gainesville Region. 2 hours, and 4 hours field or laboratory. 4 credits. Group IV. ROGERS and GIOVANNOLI.

An introduction to the animal life of local streams, lakes, hammocks, and pine-lands. Emphasis will be placed upon the geological and vegetational features that affect the occurrence of local animals.

This course, in combination with **Bly. 122**, is offered as a non-technical elective in Biology and Geology to fulfill the science requirement for A.B., A.B.E., B.S., Bus. Ad., and B.S. Jm. students.

Laboratory fee: \$5.

Bly. 122.—The History of the Earth with Particular Reference to its Animal Life. 3 hours, and 5 Saturday field trips during the semester. 4 credits. HUBBELL and ROGERS.

An account of the geological processes and record. Emphasis will be placed upon the more recent geological history of North America and of Florida. The field work will consist of trips to local geological features and fossil beds.

Prerequisite: **Bly. 121**.

The cost per student for all required field trips is estimated at \$5.

Bly. 0201.—Invertebrate Zoology. 3 hours, and 4 hours laboratory. 5 credits. Group IV. BYERS.

The comparative morphology, phylogeny, and natural history of invertebrates, exclusive of the insects.

Prerequisite: **Bly. 101**.

Laboratory fee: \$5.

Bly. 0202.—Entomology. 3 hours, and 4 hours laboratory. 5 credits. Group IV. HUBBELL.

The comparative morphology, classification, and natural history of insects, with emphasis on field work on the local insect fauna. A logical complement to **Bly. 0201**.

Prerequisite: **Bly. 101**.

Laboratory fee: \$5.

Bly. 211.—Embryology. 2 hours, 1 hour recitation, and 6 hours laboratory. 5 credits. Group IV. SHERMAN.

The principles of general embryology, followed by special attention to the development of the vertebrates.

Prerequisites: **Bly. 101** and **104**.

Laboratory fee: \$5.

Bly. 0301.—Advanced Invertebrate Zoology. Hours and credits to be arranged. Group IV. BYERS.

Special studies on the local invertebrate fauna or in parasitology.

Prerequisites: Bly. 101; Bly. 0201 or 415.

Laboratory fee: \$5.

Bly. 0302.—Advanced Entomology. Hours and credits to be arranged. Group IV. HUBBELL.

Studies of the classification and natural history of certain selected groups of insects.

Prerequisites: Bly. 101 and 0202.

Laboratory fee: \$5.

Bly. 305.—Genetics. 3 hours. 3 credits. Group IV. ROGERS.

An introduction to the subject matter, methods, and data of genetics, with special reference to animals.

Prerequisites: Bly. 101; Bly. 0201 or 211.

Bly. 308.—Mammalian Anatomy and Physiology. 2 hours, and 6 hours laboratory. 5 credits. Group IV. SHERMAN.

An introduction to the structure and function of the mammalian body. Dissection of the cat by individual students is accompanied by lectures devoted largely to the anatomy and physiology of the human body.

Prerequisites: Bly. 101 and 104.

Laboratory fee: \$5.

Bly. 311-312.—Vertebrate Zoology. 2 hours, and 6 hours laboratory. 8 credits. Group IV. No credit toward a degree will be allowed until the entire 8 credits are earned. SHERMAN and GIOVANNOLI.

The classification and natural history of vertebrate animals, with special attention to the recognition and habits of the local fauna.

Prerequisites: Bly. 101 and 104.

Laboratory fee: \$3 per semester.

Bly. 323.—Animal Histology. 4 hours laboratory, 1 hour recitation. 3 credits. Group IV. SHERMAN.

An introductory study of animal tissues, chiefly those of the vertebrates.

Prerequisites: Bly. 101, 104, and 211. May be elected only by permission.

Laboratory fee: \$5.

Bly. 402.—Animal Ecology. 3 hours, and 8 hours field work. 5 credits. Group IV. ROGERS.

Studies on the local fauna as an introduction to the methods of animal ecology.

Prerequisites: Bly. 101, 0201 or 0202 and 311-312.

Laboratory fee: \$5.

Bly. 403.—Zoogeography. 3 hours. 3 credits. Group IV. HUBBELL.

The principles governing the spatial distribution of animals, and the bearing of geographic distribution on problems of evolution.

Prerequisites: Bly. 101 and 0201; or Bly. 101 and 0202; or Bly. 311-312.

It is desirable that Gy. 202 either precede or accompany this course.

Bly. 415.—Animal Parasitology. 2 hours, and 6 hours laboratory. 5 credits. Group IV. BYERS.

The animal organisms, especially the protozoa, worms, and arthropods, producing disease in man and the higher vertebrates.

Prerequisites: Bly. 101, and permission of the instructor.

GRADUATE COURSES

Bly. 501-502.—Current Literature of Biology

Bly. 503.—Advanced General Biology

Bly. 0505.—History of Biology

Bly. 506.—Zoological Classification and Nomenclature

Bly. 516.—Advanced Morphology

Bly. 518.—Bionomics

Bly. 519-520.—Individual Problems in Animal Biology

BOTANY

Bty. 101.—General Botany. 2 hours, and 4 hours laboratory. 4 credits. Group IV. CODY, CARROLL.

Structure and life histories of important algae, fungi, mosses, and ferns.

Laboratory fee: \$5.

Bty. 102.—General Botany. 2 hours, and 4 hours laboratory. 4 credits. Group IV. CODY, CARROLL.

Structure, environment, and principles of identification of seed plants.

Laboratory fee: \$5.

Botany 104.—Economic Botany. 2 hours, 1 hour recitation, and 2 hours laboratory. 5 credits. Group IV. CODY.

A non-technical course for those not specializing in the plant sciences but desiring to know something of the structure and function of some of the economic plants and how to identify some of the local ferns and flowering plants.

Laboratory fee: \$5.

Bty. 0302 or 302.—Plant Physiology. 2 hours, and 4 hours laboratory. 4 credits. Group IV. CODY.

Physiological processes of plants with respect to absorption, assimilation, transpiration, metabolism, respiration, and growth.

Desired prerequisites: Cy. 232 or 262, or equivalent; Ay. 301, and Ps. 111, or equivalents.

Laboratory fee: \$5.

Bty. 308.—Taxonomy. 1 hour, and 6 hours laboratory. 4 credits. Group IV. CODY.

Identification of common seed plants and ferns of the Gainesville region. (An extra hour's credit may be earned by assignment of a special field problem.)

Prerequisites: Bty. 101, 102.

Laboratory fee: \$5.

Bty. 310.—Advanced Taxonomy. 1 hour, and 6 hours laboratory. 4 credits. Group IV. CODY.

A critical study of a plant family or genus. Field work.

Prerequisite: Bty. 308, or equivalent.

Laboratory fee: \$5.

Bty. 320.—General Morphology of Seed Plants.—1 hour, and 6 hours laboratory. 4 credits. Group IV. CODY.

Structure and life histories of certain gymnosperms and angiosperms; process of ovule fertilization.

Laboratory fee: \$5.

Bty. 331.—Plant Histology. 1 hour, and 6 hours laboratory. 4 credits. Group IV. CODY.

Methods and practice in killing, fixing, sectioning, and staining of plant tissues and organs. (An extra hour's credit may be earned upon the completion of a special problem.)

Desired prerequisite: Bty. 302, Cy. 262.

Laboratory fee: \$5.

Bty. 332.—Plant Anatomy. 1 hour, and 6 hours laboratory. 4 credits.

Group IV. **CODY.**

Origin, structure, and function of principal tissues and organs of plants. (An extra hour's credit may be earned upon the completion of a special problem.)

Desired prerequisites: **Bty. 331, Cy. 262, and Ps. 111.**

Laboratory fee: \$5.

Bty. 401, or 0401.—Plant Ecology. 1 hour, and 6 hours laboratory. 4 credits. Group IV. **CODY.**

The relation of plants to their environment, with special reference to plant associations, plant successions, and modes and effects of plant migration; plant surveys.

Prerequisites: **Bty. 302, 308, Ay. 301,** and some knowledge of biology, chemistry, and geology.

Laboratory fee: \$5.

Bty. 402.—Advanced Plant Physiology. 1 hour, and 6 hours laboratory. 4 credits. Group IV. **CODY.**

Special studies in digestion, assimilation, nutrition, respiration, and growth.

Preliminary course to research in plant physiology.

Prerequisite: **Bty. 302.**

Laboratory fee: \$5.

GRADUATE COURSES

Bty. 500.—Seminar.

Bty. 501-502.—Problems in Taxonomy

Bty. 503-504.—Research in Plant Physiology

Bty. 506.—Problems in Plant Histology

Bty. 507, or 0507.—Special Problems in Plant Anatomy

CHEMISTRY

Cy. 101.—General Chemistry. 3 hours, 1 hour recitation, and 3 hours laboratory. 5 credits. No credit toward a degree will be allowed until credit in **Cy. 102** is earned. Group IV. **HEATH, BEISLER, OTTE, ELLIS, THRONSON.**

The fundamental laws and theories of chemistry, and the preparation and properties of the common non-metallic elements and their compounds. Students may begin this course either the first or second semester.

Laboratory fee: \$5.

Cy. 102.—General Chemistry, continued. 3 hours, 1 hour recitation, and 3 hours laboratory. 5 credits. Group IV. **HEATH, BEISLER, OTTE, ELLIS, THRONSON.**

Devoted largely to a study of the metallic elements and their compounds.

Laboratory fee: \$5.

Cy. 0203.—Qualitative Analysis. 2 hours, and 6 hours laboratory. 4 credits. Group IV. **JACKSON.**

A systematic study of the metals and their chemical reactions and theoretical considerations of qualitative analysis. Practice in the separation and identification of the common metals and acid radicals.

Prerequisite: **Cy. 0232.**

Laboratory fee, \$5.

Cy. 0215.—Water and Sewage. 2 hours, and 3 hours laboratory or its equivalent. 3 credits. Group IV. BLACK.

A theoretical and practical study of the examination and treatment of water and sewage.

Prerequisite: General Chemistry.

Laboratory fee: \$5.

Cy. 0232.—Elementary Physical Chemistry. 3 hours, and 3 hours laboratory. 4 credits. Group IV. JACKSON.

A study of the gaseous, liquid, and solid states of matter; the properties of solutions, and colloids.

Prerequisite: General Chemistry.

Laboratory fee: \$5.

Cy. 0262.—Organic Chemistry. 3 hours, and 6 hours laboratory. 5 credits. Group IV. POLLARD and THRONSON.

A brief course embracing the more important aliphatic and aromatic compounds.

Prerequisite: General Chemistry.

Laboratory fee: \$5.

Cy. 305 or 0305.—Quantitative Analysis. 2 hours, and 9 hours laboratory. 5 credits. Group IV. BLACK.

The fundamental principles of gravimetric and volumetric analysis. The laboratory work may be varied somewhat to fit the needs of individual students.

Prerequisite: Cy. 0203.

Laboratory fee: \$5.

Cy. 343.—Industrial Chemistry, Inorganic. 3 hours. 3 credits. Group IV. BEISLER.

Consideration of chemical principles involved in manufacturing and refining inorganic products of commercial importance.

Prerequisites: Cy. 0232 or General Chemistry and College Physics.

Cy. 361-362.—Organic Chemistry. 3 hours, and 6 hours laboratory or its equivalent. 10 credits. Group IV. No credit toward a degree will be allowed until the entire 10 credits are earned. LEIGH.

A study of the preparation and properties of various aliphatic and aromatic compounds.

Prerequisite: Cy. 0203 or Cy. 0232.

Laboratory fee: \$5 per semester.

Cy. 403.—Water Analysis. 9 hours laboratory or its equivalent. 3 credits. Group IV. BLACK.

The analysis of waters to determine their potability and fitness for steam raising and other purposes.

Prerequisites: Cy. 305.

Laboratory fee: \$2.50.

Cy. 405.—Gas Analysis. 1 hour, and 6 hours laboratory. 3 credits. Group IV.

The analysis of fuel and illuminating gas and products of combustion, with some attention to the theory and use of automatic gas recorders.

Prerequisite: Cy. 305.

Laboratory fee: \$5.

Not offered in 1932-33.

Cy. 406.—Physiological Chemistry. 2 hours, and 3 hours laboratory. 3 credits. Group IV. POLLARD.

The chemistry and physiology of carbohydrates, fats, proteins, and body tissues. The examination of body fluids such as milk, blood, urine, etc. An elementary course.

Prerequisite: Organic Chemistry.

Laboratory fee: \$5.

Cy. 410.—Historical Chemistry. 3 hours. 3 credits. Group IV.

The historical development of the more important chemical theories and their influence on the development of the science.

Prerequisites: Cy. 361-362; Cy. 305.

Not offered in 1932-33.

Cy. 415.—Fuels Laboratory. 6 hours laboratory or its equivalent. 2 credits. Group IV. BEISLER.

Analysis and calorimetry of gaseous, liquid, and solid fuels.

Prerequisite: Cy. 305.

Laboratory fee, \$5.

Cy. 0421.—Advanced Physical Chemistry. 3 hours, and 3 hours laboratory. 4 credits. Group IV. JACKSON.

A study of electrical theory of matter, radioactivity, atomic structure, relation between physical properties and chemical constitution, equilibrium, phase rule, thermodynamics, thermo-chemistry, chemical kinetics, and photo-chemistry.

Prerequisites: Cy. 0203, Cy. 0232; Cy. 361-362.

Laboratory fee: \$5.

Cy. 446.—Industrial Chemistry, Organic. 3 hours. 3 credits. Group IV. BEISLER.

Consideration of chemical principles involved in manufacturing and refining organic products of commercial importance. Visits are made to accessible factories and chemical plants.

Prerequisites: Cy. 361-362; Cy. 343.

Cy. 462.—Photographic Chemistry. 3 hours or its equivalent. 3 credits. Group IV. HEATH.

Deals with the chemical action of light, the preparation, properties, and uses of photographic materials. The practical applications of photography will be shown, as well as the theory of the subject.

Prerequisites: Cy. 262, or Cy. 361-362; and Cy. 232 or College Physics.

Offered alternate years. Not offered in 1932-33.

Cy. 481.—Chemical Literature. 1 hour or its equivalent. 1 credit. Group IV. POLLARD.

A general study of the present sources of published chemical information.

GRADUATE COURSES

Cy. 501.—Organic Preparations**Cy. 504.—Inorganic Preparations****Cy. 505.—Organic Nitrogen Compounds****Cy. 506.—Special Chapters in Organic Chemistry****Cy. 508.—Synthesis and Structure of Organic Compounds****Cy. 509.—Electrochemistry****Cy. 510.—The Phase Rule****Cy. 512.—Applications of Physical Chemistry****Cy. 0513—Colloid Chemistry****Cy. 516.—Chemistry of the Rare Elements****Cy. 519.—Atomic Structure****Cy. 525.—Chemistry of the Terpenes****Cy. 526.—Chemistry of the Terpenes****Cy. 531.—Advanced Qualitative Analysis****Cy. 533.—Advanced Quantitative Analysis****Cy. 537.—Qualitative Organic Chemistry**

Cy. 538.—Quantitative Organic Chemistry

Cy. 542.—Catalysis

Cy. 545.—Chemical Thermodynamics

Cy. 551-552.—Chemical Research

ECONOMICS

Es. 101.—Economic History of England. 3 hours. 3 credits. Group III.

Survey and interpretation, with brief reference to France and Germany. The origin and development of economic institutions; the manor, Industrial Revolution, commerce transport, labor, agriculture, finance; effects on social and political development and on development in the United States.

Es. 102.—Economic History of the United States. 3 hours. 3 credits. Group III.

Interpretative survey of industrial development—consideration of the development of industry, agriculture, trade and transportation, labor, banking, finance, population, the influence of economic development on political and social development, and of foreign economic development on the United States.

Es. 201-202.—Principles of Economics. 3 hours. 6 credits. Group III.

No credit toward a degree will be allowed until the entire 6 credits are earned.

An analysis of production, distribution, and consumption. Attention is devoted to the principles governing value and market price, with a brief introduction to money, banking and credit, industrial combinations, transportation and communication, labor problems, and economic reform.

Es. 302 or 0302.—Elements of Statistics. 2 hours, and 2 hours laboratory. 3 credits. Group III. ANDERSON.

An introduction to statistics; brief consideration of statistical theory; collection, classification, and presentation of economic data; construction of graphs and charts; study of index numbers; problems of statistical research. Each student is required to complete one or more projects in statistical investigation.

Prerequisite: Es. 201-202.

Es. 321.—Financial Organization of Society. 3 hours. 3 credits. Group III. DOLBEARE.

An introduction to the field of finance. Consideration of the pecuniary organization of society, to the functions performed by financial institutions, and to the relationship between finance and business administration.

Prerequisite: Es. 201-202.

Es. 351 or 0351.—Transportation Principles. 3 hours. 3 credits. Group III. Bigham.

The development of transportation; the place of transportation in the economic order; types of transportation agencies; railway transportation; rate making; government regulation of railroads.

Prerequisite: Es. 201-202.

Es. 381.—Economic Geography of North America. 3 hours. 3 credits. Group III. Atwood.

A detailed study of the principal economic activities in each of the major geographic regions of North America, involving an analysis of these activities from the standpoint of their relation to the natural environmental complex.

Prerequisites: Bs. 103 and 104; Es. 201-202.

Es. 385.—Commercial Geography of South America. 3 hours. 3 credits. Group III. **ATWOOD.**

A geographic survey of the continent of South America: the growth of trade, exports, and imports; trade by countries, and general business trends; the elements of the environment favoring or discouraging production and movement of commodities; the economic conditions that influence commercial advance or decline; the major geographic regions of each country as to their importance in supplying export products and in consuming import commodities.

Prerequisites: **Bs. 103 and 104; Es. 201-202.**

Not offered in 1932-33.

Es. 404.—Government Control of Business. 3 hours. 3 credits. Group III. **HURST.**

General survey of the field of government control; purposes of government control; control of accounts, prices, and capitalization; government policy toward business; current government regulation; services and agencies which modern governments undertake to provide for business enterprises.

Prerequisites: **Es. 201-202.**

Es. 426.—Banking Systems. 3 hours. 3 credits. Group III. **DOLBEARE.**

An analytical history of the evolution of the banking system of the United States, followed by a critical study of the banking systems of other countries, especially Canada, England, France, and Germany. The aim of the course is to give the student an understanding of the functions of banking in modern economic societies.

Prerequisite: **Es. 321.**

Es. 429.—Government Finance. 3 hours. 3 credits. Group III. **BIGHAM.**

Principles governing expenditures of modern governments; sources of revenue; public credit; principles and methods of taxation and of financial administration as revealed in the fiscal systems of leading countries.

Prerequisite: **Es. 201-202.**

Es. 431 or 0431.—Principles of Marketing. 3 hours. 3 credits. Group III. **WILSON.**

A survey of the marketing structure of industrial society; fundamental functions performed in the marketing process and the various methods, agencies and factors responsible for the development and execution of these functions; marketing problems of the manufacturer, wholesaler, and the different types of retailers; the marketing functions in business management.

Prerequisite: **Es. 201-202.**

Es. 435.—International Trade. 3 hours. 3 credits. Group III. **CAMPBELL.**

World economics involving the principles and policies of international trade; the international aspects of the economic policies and activities of modern nations.

Prerequisite: **Es. 201-202.**

Es. 440.—Trade Horizons in Caribbean America. 3 hours. 3 credits. Group III.

Economic and commercial geography of Mexico, Central America, the West Indies, and the countries of South America bordering the Caribbean Sea; the historical background of the republics and islands of the Caribbean; the major geographic regions of the different countries; the economic positions of the republics and islands; the commercial importance of the various republics and islands as a market for manufactured wares and as a source of foodstuffs and raw materials.

Prerequisite: **Bs. 103-104.**

Not offered in 1932-33.

Es. 442.—Trade Horizons in the Far East. 3 hours. 3 credits.

Group III. DIETRICH.

A study of human relationships to natural environment as presented in the economic adjustments in the Far East and in its commercial connections with the Western World, especially with the United States, and including a study of Siberia, Manchuria, Japan, China, Farther India, India, and the Malayan Archipelago; the historical background of these different countries, the major geographic regions in the area, their economic significance in production of various raw materials, food stuffs, and manufactured goods; and as a market for western products.

Es. 454.—Principles of Public Utility Economics. 3 hours. 3 credits.

Group III. BIGHAM.

The place of public service corporations in the economic organization of society; valuation; rate making, finance; organization and administration of public utilities.

Prerequisite: Es. 201-202.

Es. 468.—Economic History in the Making. 3 hours. 3 credits. Group

III. DYKMAN.

The era of industrialism; a survey of contemporary economic organization in the leading European countries; types of economic reform; capitalism, socialism, communism; special consideration of current social and economic problems in England, Germany, Soviet Russia, and the United States.

Es. 469. — Business Forecasting. 3 hours. 3 credits. Group III.

ANDERSON.

This course aims to survey the problem of the reduction of business risk by forecasting general business conditions. A study will be made of the statistical methods used by leading commercial agencies in forecasting the volume of trade, the wholesale price level, the market rate of interest, and other generalized measures of business equilibrium.

Prerequisite: Es. 302.

Es. 470.—Business Forecasting, continued. 3 hours. 3 credits. Group

III. ANDERSON.

A study of various techniques employed to forecast the production and price of specific commodities. An intensive examination of the more important contributions to this subject appearing in scientific journals during recent years will constitute the nucleus of the course.

Prerequisite: Es. 302.

Es. 485.—International Economic Relations. 3 hours. 3 credits.

Group III. ATWOOD.

An historical study of the development of international economic policies, geographic, economic, social, and political factors underlying contemporary international problems; economic and political methods employed by the leading commercial nations to expand their economic interests in Latin America, Asia, and Africa.

GRADUATE COURSES

Es. 505.—The Development of Economic Thought

Es. 506.—The Development of Economic Thought, continued

Es. 528.—International Finance

Es. 530.—Problems in State and Local Taxation

Es. 563-564.—Seminar in Statistics and Business Forecasting

Es. 568.—Special Studies in Risk and Risk Bearing

Es. 589.—Geographic Factors Underlying World Economy

EDUCATION

For courses in Education, see the *Bulletin of the College of Education*.

Students registered in the College of Arts and Sciences must have the approval of the Dean before registering for courses in Education.

ENGLISH

Eh. 21.—Minimum Essentials of English. 3 hours. No credit. Group III. ROBERTSON and staff.

An elementary course in fundamentals of grammar, punctuation, and sentence construction, designed to meet the needs of freshmen deficient in preparatory English. For such deficient students this course is prerequisite to Eh. 101. Entry to the course will be determined by examinations to be given all entering freshmen during Freshman Week.

Required of all freshmen who, upon entering the University, are found deficient in minimum essentials of high school English.

Eh. 101-102.—Rhetoric and Composition. 3 hours. 6 credits. Group III. No credit toward a degree will be allowed until the entire 6 credits are earned. ROBERTSON and staff.

Designed to train students in methods of clear and forceful expression. Instruction is carried on simultaneously in formal rhetoric, in theme writing, and in corrective studies and exercises adapted to the needs of the individual student. In addition, all students are encouraged to read extensively for extra credit.

In order to receive credit for this course, the student is required to meet the following conditions: (1) He must pass a spelling test based on a list of 500 common words. (2) He must pass objective tests in the elements of capitalization, punctuation, grammar, and sentence structure. (These tests form a part of the final examination.) (3) He must have a passing average in composition, to secure which he must have learned to avoid certain especially gross errors.

Required of all freshmen.

Eh. 103-104.—Introduction to Literature. 3 hours. 6 credits. Group III. No credit toward a degree will be allowed until the entire 6 credits are earned. FARR and staff.

A survey of the literatures of the Western world from the beginnings to the Renaissance.

Required of freshmen in the course leading to the degree of Bachelor of Arts.

Eh. 201-202.—History of Literature to 1800. 3 hours. 6 credits. Group III. No credit toward a degree will be allowed until the entire 6 credits are earned. FARR and staff.

A basic course in the historical development of English literature.

Eh. 203.—The Short Story. 3 hours. 3 credits. Group III. FARRIS.

Narrative practice in the anecdote and tale, with particular attention to the technique and development of the short story.

Prerequisite: Eh. 101-102.

Eh. 204.—Exposition. 3 hours. 3 credits. Group III. FARRIS.

A course in the study and application of the fundamental principles involved in expository thought—organization and expression, working toward the student's production of such types as the criticism, the essay, the biography, etc.

Eh. 207-208.—English Literature of the Nineteenth Century. 3 hours. 6 credits. Group III. ROBERTSON.

The first semester covers English poetry and prose of the first half of the nineteenth century. The second semester is a continuation to the present day.

Eh. 301-302.—Shakespeare and the Drama. 3 hours. 6 credits. Group III. No credit toward a degree will be allowed until the entire 6 credits are earned. FARR.

The English Drama from its beginning through Shakespeare. In the first semester the comedy will be stressed; in the second, the tragedy.

Eh. 303-304.—English Poetry of the Nineteenth Century. 3 hours. 6 credits. Group III. No credit toward a degree will be allowed until the entire 6 credits are earned. FARRIS.

Discussion of the roots of the Romantic Revival; the work of Wordsworth, Byron, Shelley, and Keats; poetry of the Victorian age.

Eh. 305.—Historical Grammar. 3 hours. 3 credits. Group III. FARR.

A course based on Lounsbury's *History of the English Language* designed to give the student some knowledge of the historical development of the English language, with a view especially of giving insight into modern English grammar.

Eh. 306.—English Grammar. 3 hours. 3 credits. Group III. ROBERTSON.

A study of modern English inflection and syntax. The course is designed to be of practical value to teachers of English, and is intended especially for students choosing Group C in the College of Education.

Prerequisite: Eh. 305.

Eh. 307.—The English Ballad. 3 hours. 3 credits. Group III. FARR.

A study of the English and Scotch Ballads; a brief survey of American ballads; and an introduction to comparative European balladry.

Eh. 308.—Spenser and Milton. 3 hours. 3 credits. Group III. FARR.

A study of *The Fairy Queen* and *Paradise Lost*.

Eh. 355-356.—Business Writing. 3 hours. 6 credits. No credit allowed toward a degree until the entire 6 credits are earned. MOUNTS.

A practical study of the principal types of business letters and reports.

Required of students in Business Administration.

No credit for this course is given to students in the College of Arts and Sciences.

Prerequisite: Eh. 101-102.

Eh. 401.—American Poetry. 3 hours. 3 credits. Group III. FARRIS.

A rapid survey of the development of poetry in the United States.

Eh. 402.—Southern Literature. 3 hours. 3 credits. Group III. FARRIS.

A detailed study, with extensive reading and essay work; examination of the claims of Florida authors.

Eh. 403-404.—The English Novel. 3 hours. 6 credits. Group III. No credit toward a degree will be allowed until the entire 6 credits are earned. FARR.

The historical development and technique of the English Novel.

Eh. 405-406.—Modern Drama. 3 hours. 6 credits. Group III. No credit toward a degree will be allowed until the entire 6 credits are earned. ROBERTSON.

Recent and contemporary dramatists, from Ibsen to O'Neill. In the first semester English and Irish drama is stressed; in the second, Continental and American drama since the World War.

GRADUATE COURSES

- Eh. 501-502.—American Literature
 Eh. 503-504.—The Novel
 Eh. 505-506.—Modern Drama
 Eh. 507-508.—The Renaissance in England
 Eh. 509-510.—Middle English
 Eh. 511-512.—Anglo-Saxon

FRENCH

A student who passed one year of French in high school will be admitted to French 22 without having to study French 21; if he registers for French 21 in the University he will not be allowed credit for it. A student who passed two years of French in high school will be admitted to French 101 without having to study French 21 and 22; if he registers for French 21 or 22 in the University he will not be allowed credit for either. Students who have passed more than two years of French in high school should confer with the Head of the Department of French before registering for college courses in French; failure to do so may result in loss of credit because of duplication.

Fh. 21-22.—Elementary French. 3 hours. 6 credits. Group II. No credit toward a degree will be allowed until the entire 6 credits are earned.

Elements of pronunciation and grammar; reading of simple prose.

For beginners.

Prerequisite: Passing the Placement Test in English for entering freshmen, or passing the course for freshmen deficient in preparatory English (Eh. 21).

Fh. 101-102.—Third and Fourth Semester French. 3 hours. 6 credits. Group II. No credit toward a degree will be allowed until the entire 6 credits are earned.

Second-year college French: Reading of modern texts; grammar review; translation of simple English into French.

Prerequisite: Fh. 21-22 (or the equivalent, such as two years of high school French).

Science students may substitute Fh. 107-108 for this course.

Fh. 105-106.—Elementary Conversation and Composition. 3 hours. 6 credits. Group II. Credit will be allowed for the first semester without the second, but the second semester may not be taken for credit without the first except by permission of the head of the department upon satisfactory evidence of qualification. BRUNET.

Oral and written practice accompanied by review of grammar.

Prerequisite: Fh. 101-102 (or the equivalent, such as four years of high school French), or concurrent enrollment in Fh. 101-102.

Fh. 107-108.—Scientific French. 3 hours. 6 credits. Group II. No credit toward a degree will be allowed until the entire 6 credits are earned. May not be taken for credit in addition to Fh. 101-102, nor counted toward a major in French. **BRUNET.**

Same as **Fh. 101-102** except that the reading material is scientific French. For science students, who may substitute it for **Fh. 101-102.**

Prerequisite: **Fh. 21-22** or the equivalent, such as two years of high school French.

Fh. 201-202.—Third-Year Reading. 3 hours. 6 credits. Group II. No credit for this course will be given to those who have earned credit in Fh. 207 and 208. Credit will be allowed for the first semester without the second, but the second semester may not be taken for credit without the first except by permission of the head of the department upon satisfactory evidence of qualification. **BRUNET.**

A course in translation.

Prerequisite: Grade of C or D in **Fh. 102.** Students who earned a grade of A or B in **Fh. 102** should take **Fh. 207-208** instead of **Fh. 201-202.**

Fh. 205-206.—Intermediate Conversation and Composition. 3 hours. 6 credits. Group II. Credit will be allowed for the first semester without the second, but the second semester may not be taken for credit without the first except by permission of the head of the department upon satisfactory evidence of qualification. **ATKIN.**

Current vocabulary and phraseology of spoken French; French life and institutions.

Prerequisite: **Fh. 105-106.**

Fh. 207-208.—Survey of French Literature. 3 hours. 6 credits. Group II. No credit for this course will be allowed those who have earned credit in Fh. 201-202. Credit will be allowed for the first semester without the second, but the second semester may not be taken for credit without the first except by permission of the head of the department upon satisfactory evidence of qualification. **ATKIN.**

Historical outline—representative selections from important prose writers and poets.

Prerequisite: **Fh. 102** with grade of A or B, or permission of instructor.

Fh. 303-304.—Nineteenth-Century French Literature. 3 hours. 6 credits. Group II. Credit will be allowed for the first semester without the second, but the second semester may not be taken for credit without the first except by permission of the head of the department upon satisfactory evidence of qualification. **ATKIN.**

Leading authors of the period studied in representative works; literary movements and tendencies.

Prerequisite: **Fh. 207-208,** or permission of instructor.

Fh. 409-410.—Contemporary French Literature. 3 hours. 6 credits.

Group II. Credit will be allowed for the first semester without the second, but the second semester may not be taken for credit without the first except by permission of the head of the department upon satisfactory evidence of qualification. ATKIN.

Modern tendencies as revealed in outstanding authors. Lectures, readings, and reports.

Prerequisite: **Fh. 303-304**, or permission of instructor.

GRADUATE COURSES

Fh. 505-506.—The French Novel**Fh. 507-508.—Special Study in French Literature**

GEOLOGY

Gy. 201.—Physical Geology. 3 hours. 3 credits. Group IV. HUBBELL.

An introduction to geology, dealing with the materials and structure of the earth, and the agencies which produce geological change.

Gy. 202.—Historical Geology. 2 hours, and 2 hours laboratory. 3 credits. Group IV. HUBBELL.

An introduction to the history of the earth and of its inhabitants.

Prerequisite: **Gy. 201**.

Gy. 302.—Physiography of North America. 3 hours. 3 credits. Group IV. HUBBELL.

A consideration of the surface features and physiographic regions of the North American continent, in relation to their structure, the processes which have formed them, and their stage of geographic development.

Prerequisite: **Gy. 201**.

Offered in alternate years. May be elected only with permission of instructor.

GERMAN

A student who has passed one year of German in high school will be admitted to German 22 without having to study German 21; if he registers for German 21 in the University he will not be allowed credit for it. A student who has passed two years of German in high school will be admitted to German 101 without having to study German 21 and 22; if he registers for German 21 or 22 in the University he will not be allowed credit for either. Students who have passed more than two years of German in high school should confer with the Head of the Department of German before registering for college courses in German; failure to do so may result in loss of credit because of duplication.

Gn. 21-22.—Elementary German. 3 hours. 6 credits. Group II. No credit toward a degree will be allowed until the entire 6 credits are earned. CROW and HAUPTMANN.

Pronunciation, grammar, written and oral exercises, memorizing of vocabularies, dictation, translation.

Gn. 101-102.—Second Year German. 3 hours. 6 credits. Group II. No credit toward a degree will be allowed until the entire 6 credits are earned. CROW.

Continuation of Gn. 21-22. Review of grammar, written and oral exercises, reading of modern texts.

Gn. 213-214.—Elementary Composition and Conversation. 3 hours. 6 credits. Group II. Credit will be allowed for the first semester without the second if the student so desires; however, the second semester cannot be taken without the first. CROW.

Drill on pronunciation, review of syntax, stylistics, writing of themes, practice in conversation.

Prerequisite: Gn. 101-102.

Gn. 225-226.—Scientific German. 3 hours. 6 credits. Group II. CROW.

Reading of selections from writers on various sciences, journals and books in chosen science.

Prerequisite: Gn. 101-102.

Gn. 303-304.—Survey of German Literature. 3 hours. 6 credits. Group II. CROW.

Historical outline; reading of selections from representative authors.

GREEK

Gk. 21-22.—First Year Greek. 3 hours. 6 credits. Group II. No credit toward a degree will be allowed until the entire 6 credits are earned. ANDERSON.

Based on a book for beginners. Anabasis Book I with grammar and prose composition.

Gk. 103-104.—Grammar and Prose Composition. 2 hours. 4 credits. Group II. No credit toward a degree will be allowed until the entire 4 credits are earned. ANDERSON.

An intermediate course in prose composition. A systematic study of Greek grammar.

Not offered in 1932-33.

Gk. 105-106.—Xenophon and Plato—Anabasis Continued. 3 hours. 6 credits. Group II. No credit toward a degree will be allowed until the entire 6 credits are earned. ANDERSON.

The easier dialogues of Plato; prose composition; grammar.

Gk. 0202.—Lysias. 3 hours. 3 credits. Group II. ANDERSON.

Selected orations of Lysias or other Attic Orators.

Not offered in 1932-33.

Gk. 203.—Biblical Greek. 3 hours. 3 credits. Group II. ANDERSON.

Selections from the Septuagint and New Testament.

Gk. 205.—Greek History. 3 hours. 3 credits. Group III.

Political history and history of Greek Civilization during the creative period of ancient Hellas, with emphasis on its influence on the development of modern institutions.

Not offered in 1932-33.

Gk. 206.—History of Greek Literature. 3 hours. 3 credits. Group III.

Preceded by a short study of Greek life and customs. A knowledge of the Greek language is highly desirable, but is not required for this course.

Not offered in 1932-33.

- Gk. 207.—Homer.** 3 hours. 3 credits. Group II. ANDERSON.
 Selections from the *Iliad* and the *Odyssey*.
 Not offered in 1932-33.
- Gk. 301.—Herodotus and Thucydides.** 3 hours. 3 credits. Group II.
 ANDERSON.
 Selections from the Greek historians.
 Not offered in 1932-33.
- Gk. 302.—Euripides and Sophocles.** 3 hours. 3 credits. Group II.
 ANDERSON.
 Selections from the Greek dramatists.
 Not offered in 1932-33.

GRADUATE COURSES

- Gk. 501-502.—Homer**
Gk. 503-504.—Historians

HISTORY

The courses in American History and in American Government and Constitutional Law are made possible by the Chair of Americanism and Southern History, partly endowed by the American Legion, Department of Florida.

- Hy. 101-102.—Europe During the Middle Ages.** 3 hours. 6 credits.
 Group III. No credit toward a degree will be allowed until the entire 6 credits are earned. LEAKE and staff.

A course in the history of Western Europe from 476 to the Renaissance and Reformation.

Required of all freshmen in the course leading to the degree of Bachelor of Arts.

- Hy. 201-202.—Modern European History.** 3 hours. 6 credits. Group III. No credit will be allowed until the entire 6 credits are earned. LEAKE.

First semester: characteristic features of the Old Regime, the French Revolutionary and the Napoleonic Periods, and the development of Europe up to 1856. Second semester: history of Europe from the Congress of Paris to the Congress of Versailles.

- Hy. 203.—Latin America.** 3 hours. 3 credits. Group III. No credit toward a degree will be allowed until credit in Hy. 204 is earned. GLUNT.

The discovery, settlement, and early development of South and Central America.

- Hy. 204.—Latin America.** 3 hours. 3 credits. Group III. PAYNE.

A continuation of Hy. 203 covering the history of Latin America from about 1850 to the present.

Prerequisite: Hy. 203.

- Hy. 208.—History of Rome.** The same course as Ln. 208.

- Hy. 209.—The French Revolution.** 3 hours. 3 credits. Group III. No credit toward a degree will be allowed until credit in Hy. 210 is earned. LEAKE.

A thorough and detailed study of the French Revolution and its various phases and aspects.

- Hy. 210.—The Napoleonic Era.** 3 hours. 3 credits. Group III. LEAKE.

A comprehensive and close study of the Napoleonic Period.

Prerequisite: Hy. 209.

- Hy. 301.—American History, 1492 to 1776. 3 hours. 3 credits. Group III. No credit toward a degree will be allowed until credit in Hy. 302 is earned. LEAKE.
- Hy. 302.—American History, 1776 to 1830. 3 hours. 3 credits. Group III. LEAKE.
Prerequisite: Hy. 301.
- Hy. 303.—American History, 1830 to 1876. 3 hours. 3 credits. Group III. No credit toward a degree will be allowed until credit is earned in Hy. 304. LEAKE.
- Hy. 304.—American History, 1876 to 1930. 3 hours. 3 credits. Group III. LEAKE.
Prerequisite: Hy. 303.
- Hy. 305.—English History to 1714. 3 hours. 3 credits. Group III. No credit toward a degree will be allowed until credit is earned in Hy. 306. PAYNE.
- Hy. 306.—English History since 1714. 3 hours. 3 credits. Group III. PAYNE.
Prerequisite: Hy. 305.
- Hy. 307-308.—The Renaissance and the Reformation. 3 hours. 6 credits. Group III. No credit toward a degree will be allowed until the entire 6 credits are earned. LEAKE.
Not offered in 1932-33.

GRADUATE COURSES

- Hy. 501-502.—American History, 1492 to 1830
- Hy. 503-504.—American History, 1830 to the Present
- Hy. 505-506.—English History
- Hy. 507-508.—The Renaissance and the Reformation
- Hy. 509-510.—History Seminar for Graduate Credit

LATIN

Students who have passed one or more years of Latin in high school should be careful not to register for similar courses in Latin in the University, so that there will be no repetition of any work done in high school; failure to do this will result in loss of credit to the extent of the duplication.

- Ln. 21-22.—First Year Latin. 3 hours. 6 credits. Group II. No credit toward a degree will be allowed until the entire 6 credits are earned. LITTLE.

A course based on a book for beginners.

- Ln. 31-32.—Caesar. 3 hours. 6 credits. Group II. No credit toward a degree will be allowed until the entire 6 credits are earned. LITTLE.

Grammar and prose composition.

- Ln. 41-42.—Cicero and Virgil. 3 hours. 6 credits. Group II. No credit toward a degree will be allowed until the entire 6 credits are earned. LITTLE.

Grammar and prose composition.

- Ln. 101.—Ovid.** 3 hours. 3 credits. Group II. No credit toward a degree will be allowed until credit is earned in Ln. 102. ANDERSON.
Selections; review of grammar; prose composition; prosody.
- Ln. 102.—Cicero or Livy.** 3 hours. 3 credits. Group II. ANDERSON.
Cicero's *De Senectute* and *De Amicitia*, or selections from Livy.
- Ln. 201.—Pliny.** 3 hours. 3 credits. Group II. ANDERSON.
Selections from Pliny's letters.
- Ln. 202.—Horace.** 3 hours. 3 credits. Group II. ANDERSON.
Selections from the satires, epistles, odes and epodes, with a study of the Horatian metres.
- Ln. 203-204.—Grammar and Prose Composition.** 2 hours. 4 credits. Group II. No credit toward a degree will be allowed until the entire 4 credits are earned. ANDERSON.
An intermediate course in prose composition in connection with a systematic study of Latin grammar.
Not offered in 1932-33.
- Ln. 206.—History of Roman Literature.** 3 hours. 3 credits. Group III. SIMONDS.
Preceded by a short study of Roman life and customs.
- Ln. 208.—History of Rome.** 3 hours. 3 credits. Group III. SIMONDS.
- Ln. 253.—Roman Law.** 3 hours. 3 credits. Group III. SIMONDS.
Fundamental legal conceptions which are found in Roman Law.
Desirable prerequisite: at least two years of Latin.
- Ln. 255.—Roman Law.** 3 hours. 3 credits. Group III. SIMONDS.
An extension of the preceding course but independent of it.
- Ln. 301.—Juvenal and Tacitus.** 3 hours. 3 credits. Group II. ANDERSON.
Selections from the satires of Juvenal and from Histories or Annals of Tacitus.
Not offered in 1932-33.
- Ln. 302.—The Elegy.** 3 hours. 3 credits. Group II. ANDERSON.
Selections from Catullus, Tibullus, Propertius, and Ovid.
Not offered in 1932-33.
- Ln. 303-304.—Advanced Prose Composition.** 2 hours. 4 credits. Group II. No credit toward a degree will be allowed until the entire 4 credits are earned. ANDERSON.
A continuation of Ln. 203-204, open only to those students who have completed Ln. 203-204 or equivalent.
Not offered in 1932-33.
- Ln. 401.—Plautus.** 3 hours. 3 credits. Group II. ANDERSON.
Selected comedies.
Not offered in 1932-33.
- Ln. 402.—Terence and Seneca.** 3 hours. 3 credits. Group II. ANDERSON.
Selected plays.
Not offered in 1932-33.

GRADUATE COURSES

- Ln. 501-502.—Cicero and the Ciceronian Age**
- Ln. 505.—Virgil**
- Ln. 506.—Poetry of the Silver Age**
- Ln. 507.—Ovid**
- Ln. 508.—The Roman Satire**

MATHEMATICS

Not all of the courses numbered above 200 are given each year.

Prerequisites to the courses numbered above 400 should be determined by consultation with the instructor.

The textbooks listed are subject to change without notice.

Ms. 21.—Fundamentals of Secondary Mathematics. 3 hours. No credit. SIMPSON and staff.

A review course for those who are clearly unprepared to do successful work in college mathematics. Entry to the course will be determined by examinations to be given all entering freshmen during the second week.

Textbook: Rietz, Crathorne, and Taylor, *School Algebra—Second Course*.

Ms. 85.—Plane Trigonometry and Logarithms. 3 hours. 3 credits except to those who present trigonometry for entrance credit. Group IV. SIMPSON and staff.

The solution of the triangle; practical applications of logarithms; trigonometric analysis.

Textbook: Simpson, *Plane Trigonometry and Logarithms*.

Ms. 101.—College Algebra. 3 hours. 3 credits. Group IV. SIMPSON and staff.

A study of the quadratic equation, proportion, progressions, the binomial theorem, functions, graphs, theory of equations, permutations, combinations, probability, and determinants.

Textbook: Harding and Mullins, *College Algebra*.

Prerequisite: **Ms. 85.**

Ms. 102.—Plane Analytic Geometry. 3 hours. 3 credits. Group IV. SIMPSON and staff.

The algebraic study of the figures of geometry and the plane sections of a cone. Systems and transformation of coordinates.

Textbook: Curtiss and Moulton, *Analytic Geometry*.

Prerequisite: **Ms. 101.**

Ms. 107.—Elementary Commercial Algebra. 3 hours. 3 credits. SIMPSON and staff.

Elementary algebraic notions fundamental to the study of mathematical problems arising in business and finance.

Textbook: Crenshaw, Pirenian, Simpson, *Mathematics of Finance Preceded by Elementary Commercial Algebra*.

Open only to students in the College of Commerce and Journalism.

Ms. 108.—Business Mathematics. 3 hours. 3 credits. SIMPSON and staff.

Modern mathematical treatment of the problems of banking and business. Derivation and application of numerous formulas of importance in the financial world.

Textbook: Crenshaw, Pirenian, Simpson, *Mathematics of Finance Preceded by Elementary Commercial Algebra*.

Prerequisite: **Ms. 101** or **Ms. 107.**

Required of students in Business Administration.

Ms. 151-152.—Elementary Mathematical Analysis. 3 hours. 6 credits. Group IV. No credit toward a degree will be allowed until the entire 6 credits are earned. SIMPSON and staff.

The material of **Ms. 101** and **Ms. 102** rearranged to meet the primary needs of Engineering students.

Textbook: Slichter, *Elementary Mathematical Analysis*.

Required of all regularly admitted Engineering freshmen.

Ms. 204.—Mathematics for Agricultural Students. 3 hours. 3 credits.
Group IV.

Practical problems in agricultural engineering, farm management, dairying, investments, statistics, and averages.

Textbook: Roe, Smith, Reeve, *Mathematics for Agriculture and Elementary Science*.

Required of all sophomore Agriculture students.

Ms. 208.—Life Insurance. 3 hours. 3 credits. Group IV. PHIPPS.

A continuation of Ms. 108 with special applications to the problems of life insurance.

Prerequisite: Ms. 108.

Ms. 251-252.—Differential and Integral Calculus. 3 hours. 6 credits.
Group IV. No credit toward a degree will be allowed until the entire 6 credits are earned. WILSON.

The study of a process known as differentiation, which, with its numerous and widely different applications, constitutes one of the most important practical and theoretical fields of mathematics. Integration, the inverse operation of differentiation, is used in the calculation of areas, volumes, moments of inertia, and many other problems.

Textbook: Granville, Smith, Longley, *The Elements of the Differential and Integral Calculus*.

Prerequisites: Ms. 102 or Ms. 152.

Ms. 253-254.—Differential and Integral Calculus. 5 hours. 10 credits.

No credit toward a degree will be allowed until the entire 10 credits are earned. Group IV. SIMPSON and staff.

The study of differentiation and integration, which, together with their numerous and widely different applications constitute one of the most important fields of mathematics. Typical problems solved by these methods are calculation of rates of change, computation of areas, volumes, moments of inertia, energy, power, and many others. In addition, various advanced topics of special value to engineers and scientists are studied.

Ms. 311.—Advanced College Algebra. 3 hours. 3 credits. Group IV.
WILSON.

The further treatment of some of the material and processes of Ms. 101 and the introduction to more advanced topics.

Prerequisite: Ms. 101.

Ms. 320.—Theory of Equations. 3 hours. 3 credits. Group IV. WILSON.

Theorems and methods of solution relating to equations of higher degree.

Prerequisite: Ms. 101.

Ms. 321-322.—Mathematics Introductory to Statistics. 3 hours and occasional laboratory practice. 6 credits. Group IV. CHANDLER.
Methods of dealing with numerical data, such as occur in statistics, physics, astronomy, engineering, meteorology, and actuarial science.

Textbook: Whittaker and Robinson, *The Calculus of Observations*.

Prerequisites: Ms. 101 and Ms. 102 with a grade of A or B.

Ms. 331.—College Geometry. 3 hours. 3 credits. Group IV. KOKOMOOR.

The use of elementary methods in the advanced study of the triangle and circle. Special emphasis on solving original exercises. Valuable to prospective high school geometry teachers.

Textbook: Altshiller-Court, *College Geometry*.

Ms. 351-352.—Advanced Calculus. 3 hours. 4 credits. Group IV. No credit toward a degree will be allowed until the entire 4 credits are earned. GERMOND, SIMPSON.

Further study of the calculus, the treatment of more advanced topics, and the use of analytic geometry of three dimensions.

Prerequisite: Ms. 252.

Ms. 385.—Advanced Trigonometry. 3 hours. 3 credits. Group IV. PHIPPS.

A thorough review of plane trigonometry, with emphasis on identities and equations; complex numbers in trigonometric form; elementary spherical trigonometry.

Prerequisite: Ms. 251-252.

Ms. 461.—The Teaching of Mathematics Above Plane Geometry. 3 hours. 3 credits. Group IV. WILSON.

Emphasis is placed on the choice, arrangement, and method of presentation of the subject matter of mathematics above plane geometry.

Prerequisite: To be determined by consultation with the instructor.

Ms. 420.—Differential Equations. 3 hours. 3 credits. Group IV. DOSTAL.

The classification, solution, and application of various equations which contain expressions involving not only variables, but also the derivatives of these variables.

Textbook: Fry, *Elementary Differential Equations*.

GRADUATE COURSES

Ms. 511-512.—Introduction to Higher Algebra

Ms. 520.—Mathematical Statistics

Ms. 534.—Projective Geometry

Ms. 536.—Foundations of Geometry

Ms. 540.—Fourier Series and Harmonic Analysis

Ms. 542.—Heaviside Operational Calculus

Ms. 549-550.—Theory of Infinite Processes

Ms. 551-552.—Advanced Topics in Calculus

Ms. 555.—Functions of a Complex Variable

Ms. 557.—Differential Geometry

Ms. 559-560.—Functions of Real Variables

Ms. 568.—History of Elementary Mathematics

Ms. 575.—Fundamental Concepts of Modern Mathematics

MILITARY SCIENCE

For detailed information concerning Military Science, see the *Bulletin of the Division of Military Science and Tactics*.

My. 101-102.—Freshman Infantry. 2 hours theory, and 3 hours practice. 4 credits. Group I. LIEUTENANTS HAZLEHURST and ALDERMAN.

The basic course: the National Defense Act and the R.O.T.C.; military courtesy and discipline; military hygiene and first aid; drill and command; rifle marksmanship; scouting and patrolling.

Textbook: *W. D. Training Regulations*.

Required of freshmen in B.S. and Pre-Medical courses.

My. 103-104.—Freshman Field Artillery. 2 hours theory, and 3 hours practice. 4 credits. Group I. LIEUTENANTS WILLIAMS and QUEKE-MEYER.

The basic course: the National Defense Act and the R.O.T.C.; military courtesy and discipline; military hygiene and first aid; dismounted drills; field artillery instruction (cannoners).

Textbook: *W. D. Training Regulations.*

Required of freshmen in the B.A. course.

My. 201-202.—Sophomore Infantry. 2 hours theory, and 3 hours practice. 4 credits. Group I.

Basic course: drill and command; musketry; automatic rifle; scouting and patrolling; combat principles (Rifle Squad.)

Textbook: *W. D. Training Regulations.*

Required of sophomores in B.S. and Pre-Medical courses.

My. 203-204. — Sophomore Field Artillery. 2 hours theory, and 3 hours practice. 4 credits. Group I. CAPTAIN DONNOVIN.

Basic course: dismounted drill and ceremonies; dismounted field artillery instruction, including (1) fire control and instructions, (2) battery communications, and (3) care of animals; mounted field artillery instruction, including (1) equitation, (2) reconnaissance, (3) the field artillery driver, and (4) maneuvers limbered.

Textbook: *W. D. Training Regulations.*

Required of sophomores in the B.A. course.

My. 301-302.—Junior Infantry. 3 hours theory, and 3 hours practice. 4 credits. Group I. MAJOR MOORE.

Advanced course: map reading and military sketching; drill and command; machine gun; 37 mm. gun and 3" trench mortar; combat principles (rifle section and platoon).

Textbook: *W. D. Training Regulations.*

My. 303-304.—Junior Field Artillery. 3 hours theory, and 3 hours practice. 4 credits. Group I. CAPTAIN BARCO.

Advanced course: map reading and military sketching; communication for field artillery and liaison; pistol marksmanship; dismounted drills; equitation and horsemanship; field artillery firing, including (1) gunnery, (2) preparation of fire, and (3) terrestrial observation and conduct of fire.

Textbook: *W. D. Training Regulations.*

My. 401-402.—Senior Infantry. 3 hours theory, and 3 hours practice. 4 credits. Group I. MAJOR LANGE.

Advanced course: Military Law and Officers' Reserve Corps Regulations; military history and policy; administration; field engineering; drill and command; combat principles.

Textbook: *W. D. Publications.*

My. 403-404.—Senior Field Artillery. 3 hours theory, and 3 hours practice. 4 credits. Group I. MAJOR CONNOR.

Advanced course: Military Law and Officers' Reserve Corps Regulations; military history and policy; equitation and horsemanship; organization, tactism and tactical employment of field artillery; command; field engineering; battery administration and supply.

Textbook: *W. D. Publications.*

MUSIC

Students registered in the College of Arts and Sciences may receive one semester hour credit each for courses offered by the Division of Music. No more than two credit hours toward any degree will be allowed.

Mc. 101a-102a.—Orchestra Music. 2 hours. 2 credits. Group III. BROWN.

A course in orchestra music stressing interpretation and intended to develop appreciation of instrumental music.

Prerequisite: The student must be qualified to play in the University Orchestra.

Mc. 101b.—Sight Singing. 1 hour. 1 credit. Group III. DEBRUYN.

A course designed to equip the student with an adequate understanding of and a workable ability in the reading and singing of notes. Vocal aspects are stressed, but some attention is paid to instrumental music.

Mc. 102b.—History and Appreciation of Music. 1 hour. 1 credit. Group III. DEBRUYN.

A course designed to create in the mind of the student a working outline that will be advantageous in a further cultural investigation into the art of music. Contact with the salient facts of history, with lesser stress on appreciation; definitions; the development of counterpoint and harmony and notation; music in the early Christian church and after the Reformation; the spread of the art through Europe after Charlemagne; the epoch of the Netherlands; and the rise of modern music after 1600 A.D., with brief treatments of the opera, oratorio, orchestra development, and the biography of certain of the more noted composers and performers.

PHILOSOPHY

Ppy. 205.—Logic. 3 hours. 3 credits. Group III. ENWALL.

The use of syllogisms, inductive methods, logical analysis, and criticism of fallacies.

Ppy. 208.—Introduction to Philosophy. 3 hours. 3 credits. Group III. ENWALL.

An introductory survey of philosophic principles, with special reference to their bearing on science, ethics, and religion.

Ppy. 301.—Ethics. 3 hours. 3 credits. Group III. ENWALL.

Principles of ethics—study of such topics as goodness, happiness, virtue, duty, freedom, progress, etc.

Ppy. 302.—The Philosophy of Religion. 3 hours. 3 credits. Group III. ENWALL.

Theism; Agnosticism; Naturalism.

Ppy. 303.—History of Ancient Philosophy. 3 hours. 3 credits. Group III. ENWALL.

The development of philosophic thought from its appearance among the Ionic Greeks to the time of Descartes. Special attention will be given to the philosophy of Plato and Aristotle.

Ppy. 304.—History of Modern Philosophy. 3 hours. 3 credits. Group III. ENWALL.

A continuation of Ppy. 303. Special attention will be given to the works of Descartes, Spinoza, Leibnitz, Hume, and Kant.

Ppy. 308.—Aesthetics. 3 hours. 3 credits. Group III. ENWALL.

A short resume of the philosophy of beauty. Special lectures on architecture, sculpture, and painting will be given by professors in the School of Architecture.

Ppy. 401-402.—Advanced Logic, Seminar. 4 hours. 6 credits. Group III. No credit toward a degree will be allowed until the entire 6 credits are earned. ENWALL.

Theories of thought and knowledge.

Prerequisite: **Ppy. 205, 303, 304.**

Offered with **Ppy. 403-404** in alternate years.

Not offered in 1932-33.

Ppy. 403-404.—Philosophy of Nature, Seminar. 4 hours. 6 credits. Group III. No credit toward a degree will be allowed until the entire 6 credits are earned. ENWALL.

Man's relation to nature; the various philosophical doctrines: animism, pantheism, materialism, realism, agnosticism, humanism, idealism, etc.

Prerequisites: **Ppy. 205, 303, 304.**

Offered with **Ppy. 401-402** in alternate years.

Offered in 1932-33.

Ppy. 407.—The Philosophic Conceptions of the Great English Poets. 3 hours. 3 credits. Group III. ENWALL.

Selected plays from Shakespeare; the philosophic poems of Wordsworth, Tennyson, and Browning.

Prerequisites: **Ppy. 303, 304** or **Ppy. 301.**

GRADUATE COURSES

Ppy. 503-504.—Advanced History of Philosophy

Ppy. 505-506.—Hume and Kant, Seminar

PHYSICAL EDUCATION

Pl. 101.—Gymnasium Work and Mass Games. 2 hours of activities. 1 credit. Group I.

Pl. 102.—Minor Sports. 2 hours of activities. 1 credit. Group I.

No credit will be allowed toward a degree in the College of Arts and Sciences for other courses in Physical Education.

PHYSICS

Students desiring to elect a course in General College Physics are advised to take the sequence **Ps. 111** to **116**, carrying the theory, demonstration, and laboratory work simultaneously.

Those who desire a course with greater emphasis on the mathematical treatment may elect the sequence **Ps. 105** to **108** and **209** instead, provided they have the necessary prerequisites.

Ps. 101-102.—Elementary Theory of Mechanics, Heat, Sound, Electricity, and Light. 3 recitations, and 1 demonstration. 6 credits. Group IV. Credit will be allowed for the first semester without the second; but the second semester cannot be taken without the first. WILLIAMSON in charge.

A college course designed for the student who is not majoring in the sciences. Selected material will be treated with somewhat more emphasis on the historical development of the science and of scientific method.

Ps. 103-104.—Elementary Laboratory Physics. 3 hours laboratory and problems. 4 credits. Group IV. Credit will be given for the first semester without the second; but the second may not be taken without the first. BLESS in charge.

A series of laboratory experiments to supplement **Ps. 101-102**, which should be taken by all students electing those courses.

Laboratory fee: \$2.25 each semester.

Ps. 105-106.—Theory of Mechanics, Heat, Sound, Electricity, and Light. 4 hours. 6 credits. Group IV. Credit will be allowed for the first semester without the second, if the student so desires; however, the second semester cannot be taken without the first. PERRY in charge.

General Physics, designed primarily for engineering students, open to any student having the necessary prerequisites.

Required of Engineering students.

Prerequisite: Trigonometry.

Ps. 107-108.—General Laboratory Physics. 4 hours laboratory. 4 credits. Group IV. PERRY in charge.

Fundamental experiments in Mechanics, Heat, Sound, Electricity, and Light. Supplementing **Ps. 105-106**.

Required of Engineering students.

Laboratory fee: \$3 each semester.

Ps. 111-112.—Elementary Theory of Mechanics, Heat, Sound, Electricity, and Light. 4 hours. 6 credits. Group IV. Credit will be allowed for the first semester without the second, if the student so desires; however, the second semester cannot be taken without the first. WILLIAMSON in charge.

A college course designed to meet the needs of the general science student. Required of Architecture, Bachelor of Science, and Pre-Medical students.

Prerequisite: One year of college mathematics.

Ps. 115-116.—Elementary Laboratory Physics. 3 hours laboratory and problems. 4 credits. Group IV. Credit will be allowed for the first semester without the second, if the student so desires; however, the second semester cannot be taken without the first. BLESS in charge.

A series of laboratory experiments in general physics. This course supplements **Ps. 111-112**, which should be taken by all students electing those courses.

Required of Bachelor of Science and Pre-Medical students.

Laboratory fee: \$2.25 each semester.

Ps. 291.—Astronomy. 3 hours. 3 credits. Group IV. PERRY.

A brief general course in descriptive astronomy. Star maps will be plotted and occasional evenings will be spent in observation work.

Open to freshmen.

Ps. 292.—Meteorology. 2 hours, and 2 hours laboratory. 3 credits. Group IV. PERRY.

A brief general course.

Open to freshmen.

Ps. 299-300.—Advanced General Physics. 3 hours. 6 credits. Group IV. BLESS.

A transition course between the elementary courses in Physics and the special studies enumerated below. It presents a somewhat advanced survey of the whole field of physics.

Prerequisite or corequisite: **Calculus.**

Ps. 299-300 or its equivalent is a prerequisite or a corequisite for any of the following advanced courses.

Ps. 303-304.—Experimental Physics. 1 hour, and 4 hours laboratory. 6 credits. Group IV.

Experiments of a more advanced type than those of the elementary courses, together with study of the theory of the experiments and assigned reading. The particular experiments assigned vary with the needs and interests of the individual student.

Corequisite: **Ps. 299-300** or its equivalent.

Laboratory fee: \$3 each semester.

Ps. 307.—Heat. 2 hours, and 3 hours laboratory. 3 credits. Group IV. BLESS.

A general survey of this branch of physics from the theoretical as well as the experimental point of view. The laboratory work will include accurate measurements of the heat of combustion of materials, thermal conductivity of metals, melting points of metals, and specific heats of gases.

Corequisite: **Ps. 299-300** or its equivalent.

Laboratory fee: \$2.25.

Ps. 309.—Light. 2 hours, and 3 hours laboratory. 3 credits. Group IV. WILLIAMSON.

Study of the phenomena of refraction, interference, diffraction, and polarization.

Corequisite: **Ps. 299-300** or its equivalent.

Laboratory fee: \$2.25.

Ps. 311-312.—Electricity and Magnetism. 2 hours, and 3 hours laboratory. 6 credits. Group IV. Credit will be allowed for the first semester without the second, if the student so desires; however, the second semester cannot be taken without the first. PERRY.

The theory of magnetism and electrostatics, the electric current and its effect, thermo-electricity, electromagnetism, the elementary theory of alternating currents.

Laboratory fee: \$2.25.

Ps. 315.—Demonstration Physics. 2 hours. 1 credit. Group IV.

A series of demonstration experiments designed primarily for teachers.

Offered only in Summer Session.

Ps. 317.—Modern Theories of Physics. 3 hours. 3 credits. Group IV.

Corequisite: **Ps. 299-300** or its equivalent.

Offered only in Summer Session.

Ps. 405.—Theoretical Mechanics. 3 hours. 3 credits. Group IV. BLESS.

Statics of systems of rigid bodies. Motions of particles and of rigid bodies under constant and variable forces.

Corequisite: **Ps. 299-300** or its equivalent.

Note:—For the benefit of those who are interested in courses in applied electricity, attention is called to the courses offered in the Department of Electrical Engineering of the College of Engineering. These courses may be approved for students majoring or minoring in Physics.

GRADUATE COURSES

- Ps. 503.—Kinetic Theory of Gases
 Ps. 505.—Theoretical Mechanics
 Ps. 506.—Advanced Theoretical Mechanics
 Ps. 508.—Thermodynamics
 Ps. 510.—Physical Optics and Spectroscopy
 Ps. 513-514.—Advanced Experimental Physics
 Ps. 517-518.—Modern Physics
 Ps. 520.—X-Ray Laboratory
 Ps. 522.—Electron Physics
 Ps. 523-524.—Seminar in Modern Theory
 Ps. 527-528.—Colloquium
 Ps. 551-552.—Thesis

POLITICAL SCIENCE

- Pel. 101.—American Government and Politics.** 3 hours. 3 credits.
 Group III. No credit toward a degree will be allowed until credit in Pel. 102 is earned. LEAKE and staff.
 A study of the structure and functions of the Federal Government.
- Pel. 102.—State and Municipal Government.** 3 hours. 3 credits. Group III. Leake and staff.
 A study of state, county, and municipal government.
 Pel. 101-102 are prerequisites for all other courses in Political Science.
- Pel. 203-204.—American State and Municipal Administration.** 3 hours. 6 credits. Group III. No credit toward a degree will be allowed until the entire 6 credits are earned. TRIBOLET.
 Prerequisite: Pel. 101-102.
 Not offered in 1932-33.
- Pel. 207.—Principles of Political Science.** 3 hours. 3 credits. Group III. No credit toward a degree will be allowed until credit is earned in Pel. 208. TRIBOLET.
- Pel. 208.—Comparative Government.** 3 hours. 3 credits. Group III. No credit toward a degree will be allowed until credit is earned in Pel. 207. TRIBOLET.
 Students who have credit for Pel. 201-202 or 205-206 should secure permission from the Head of the Department before registering for Pel. 207 or 208. Failure to secure such permission is likely to cause loss of credit because of duplication of courses.
- Pel. 301-302.—American Constitutional Law.** 3 hours. 6 credits. Group III. No credit toward a degree will be allowed until the entire 6 credits are earned. LEAKE.
 Prerequisite: Pel. 101-102.
- Pel. 303-304.—International Law.** 3 hours. 6 credits. Group III. No credit toward a degree will be allowed until the entire 6 credits are earned. TRIBOLET.
 Prerequisite: Pel. 101-102.

Pcl. 305-306.—Political Theories. 3 hours. 6 credits. Group III. No credit toward a degree will be allowed until the entire 6 credits are earned. **TRIBOLET.**

Prerequisite: Pcl. 101-102.

Pcl. 309-310.—International Relations. 3 hours. 6 credits. Group III. No credit toward a degree will be allowed until the entire 6 credits are earned.

Prerequisite: Pcl. 101-102.

GRADUATE COURSES

Pcl. 501-502.—American Constitutional Law.

Pcl. 503-504.—International Law

Pcl. 505-506.—Political Theories

Pcl. 507-508.—Seminar in Political Science, for graduate credit

PSYCHOLOGY

Psy. 201.—General Psychology. 3 hours. 3 credits. Group III. **HINCKLEY, WILLIAMS.**

Facts and theories current in general psychological discussion; the sensations, sense organs, and function of the brain; the higher mental processes of attention, perception, memory, emotion, volition, and the self.

Psy. 203.—Physiological Psychology. 1 hour, and 4 hours laboratory. 3 credits. Group III. **WILLIAMS.**

Lectures and laboratory work on the nervous system; sense organs, muscles, glands, reflexes, instincts, emotions, simple habits.

Prerequisite or corequisite: Psy. 201.

Laboratory fee: \$2.

Psy. 206.—Business Psychology. 3 hours. 3 credits. Group III. **HINCKLEY.**

The application of the main facts of theoretical, experimental, and social psychology to the fields of business problems; special consideration of the fields of advertising, selling, employment, and efficiency in work.

Prerequisite: Psy. 201.

Psy. 304.—Experimental Psychology. 1 hour, and 4 hours laboratory. 3 credits. Group III. **WILLIAMS.**

Methods of psychological investigation: collection and treatment of data, individual differences, simple and complex reactions, sensations, perceptions, illusions, images, memory, attention, learning.

Prerequisite: Psy. 201; Psy. 203 is strongly recommended.

Laboratory fee: \$2.

Psy. 305.—Social Psychology. 3 hours. 3 credits. Group III. **WILLIAMS.**

Influence of the social environment upon the mental and moral development of the individual.

Prerequisite: Psy. 201.

Psy. 309.—Theories of Personality. 3 hours. 3 credits. Group III. **HINCKLEY.**

The more inevitable problems of human life and their normal and abnormal solutions; a critical consideration of the most important explanations of these adjustments; the development and organization of the self.

Prerequisite: Psy. 201.

Psy. 310.—Abnormal Psychology. 3 hours. 3 credits. Group III. HINCKLEY.

Abnormal phases of mental life, dreams, illusions, hallucinations, suggestions, hypnotism, hysteria, diseases of the memory, diseases of the will, mental hygiene, etc.

Prerequisite: **Psy. 201.**

Required of Pre-Medical students.

Psy. 312.—History and Systems of Psychology. 3 hours. 3 credits. Group III. WILLIAMS.

A critical survey of the historical development of psychology, with special emphasis on representative writers and the more recent systems and programs.

Prerequisite: Six semester hours in Psychology, including **Psy. 201.**

Psy. 405.—Theory of Psychological Measurement. 3 hours. 3 credits. Group III. HINCKLEY.

Quantitative methods of experimental psychology; collection and treatment of data; correlation; prediction; theory of probability.

Prerequisite: **Psy. 201.**

Psy. 406.—Psychological Tests. 3 hours. 3 credits. Group III. HINCKLEY.

Tests of general intelligence, special aptitudes, personality traits, and business ability; organization and administration; critical evaluation of methods and results; theory of test construction and scoring; practical uses of tests.

Prerequisites: **Psy. 201** and **Psy. 405.**

Psy. 408.—Comparative Psychology. 3 hours. 3 credits. Group III. WILLIAMS.

A review of the psychological experiments in which animals were employed as subjects with an attempt to trace the phylogenetic development of human intelligence.

Prerequisite: **Psy. 201.**

Psy. 421.—Learning. 3 hours. 3 credits. Group III. HINCKLEY.

Lectures, readings, and class demonstrations on the experiments on learning.

Psy. 422.—Space Perception. 3 hours. 3 credits. Group III. HINCKLEY.

Lectures, readings, and class demonstrations on the experiments on space perception.

Psy. 424.—Sensation. 3 hours. 3 credits. Group III. HINCKLEY.

Lectures, readings, and class demonstrations on the experiments on sensation.

GRADUATE COURSES

Psy. 501-502.—Readings in Experimental Psychology

Psy. 505.—Advanced Statistical Methods

Psy. 506.—Psychophysical Theory in the Construction of Tests

Psy. 508.—Advanced Comparative Psychology

Psy. 509.—Studies in Personality

Psy. 512.—History and Systems of Psychology

SOCIOLOGY

Sy. 111. — Introduction to the Social Studies. 3 hours. 3 credits. Group III. BRISTOL and BEATY.

Problems connected with population changes and racial antagonisms will be given special consideration and traced back to earliest times. Early man; his increasing control over his environment; factors in early social development; the nature and scope of the social studies emerge from the whole discussion.

Sy. 112.—Introduction to the Social Studies. 3 hours. 3 credits. Group III. BEATY.

A continuation of Sy. 111 with special emphasis on the evolution of the various social institutions such as the family, the state, education, morals, religion, together with a consideration of the problems growing out of maladjustments connected with these institutions such as desertion, divorce, poverty, crime. Suggested methods of treatment and prevention.

Desirable prerequisite: Sy. 111.

Sy. 116.—Public Health and Sanitation. 3 hours. 3 credits. Group III. BRISTOL and special lecturers from the University and State Board of Health.

A general introduction to the field of public health with special emphasis on the sociological and economic aspects; historical approach; bacteriological and biological foundations; community hygiene and sanitation; communicable diseases and their control; nostrums and quackery; school, industrial, and community health problems.

Sy. 303.—Cultural Development of the United States. 3 hours. 3 credits. Group III. BRISTOL.

Indian cultures in the fifteenth century; contrasted cultures in the colonies with causal explanation; influence of the Industrial and Political Revolutions on social institutions and life; westward migrations and influence on personal, community and national life; a sociological evaluation of slavery. Special emphasis will be given to a study of familial, intellectual, esthetic, philanthropic, ethical, and religious institutions and development, with outline treatment of the industrial and political.

Prerequisite: One of the following: Sy. 111, Hy. 101-102, or Es. 101.

Sy. 304.—Cultural Development of the United States. 3 hours. 3 credits. Group III. BRISTOL.

A continuation of the preceding course carrying the study from the Civil War to the present.

Prerequisite: Sy. 303.

Sy. 322.—Community Leadership. 3 hours. 3 credits. Group III. BRISTOL.

Psychological basis of community leadership; community self-knowledge through surveys, "scoring", investigations; social institutions, with suggested programs for improvement, importance of leadership in community building; the discovery and training of leaders.

Prerequisite: Sy. 111 and 112, or consent of the instructor.

Not offered in 1932-33.

Sy. 324.—Crime and Punishment. 3 hours. 3 credits. Group III. BRISTOL.

Nature and causes of crime; punishment; correction; prevention; sociological aspects of criminal law and procedure; constructive proposals. A visit to the State Prison Farm at Raiford and the Girls' Industrial School at Ocala is included.

Prerequisite: One of the preceding courses in sociology or the equivalent.

Not offered in 1932-33.

Sy. 381.—Cultural Development of Asia and Europe. 3 hours. 3 credits. Group III.

A survey of Far-Eastern, Near-Eastern and Classical civilizations; a comparative treatment of industrial, political, familial, intellectual, esthetic, ethical, and religious development.

Sy. 382.—Cultural Development of Asia and Europe. 3 hours. 3 credits. Group III.

A continuation of the preceding course. Comparative study of medieval and modern European civilizations.

Prerequisite: Sy. 381.

Sy. 441.—Principles of Sociology. 3 hours. 3 credits. Group III. BRISTOL.

A brief study of the principles of social evolution, social organization and social progress, with special emphasis on the science of social relations.

Prerequisite: Sy. 111 or consent of the instructor.

Sy. 442.—Applied Sociology. 3 hours. 3 credits. Group III. BRISTOL.

The principles of efficient living together in society, developed in the preceding course, will be applied to concrete problems in the interest of social improvement.

Prerequisite: Sy. 441 or consent of the instructor.

Sy. 443.—Race Problems. 3 hours. 3 credits. Group III. BEATY.

Origin and dispersion of races; the sociological concept of race; causes of racial antagonism; racial inequality; race mixtures; basis of racial adjustment.

Prerequisite: Sy. 111 or the equivalent.

GRADUATE COURSES

Sy. 503-504.—Culture History of the United States

Sy. 541-542.—Development of Social Thought

SPANISH

A student who has passed one year of Spanish in high school will be admitted to Spanish 22 without having to study Spanish 21; if he registers for Spanish 21 in the University he will not be allowed credit for it. A student who has passed two years of Spanish in high school will be admitted to Spanish 101 without having to study Spanish 21 and 22; if he registers for Spanish 21 or 22 in the University he will not be allowed credit for either. Students who have passed more than two years of Spanish in high school should confer with the Head of the Department of Spanish before registering for college courses in Spanish; failure to do so may result in loss of credit because of duplication.

Sh. 21-22.—Elementary Spanish. 3 hours. 6 credits. Group II. No credit toward a degree will be allowed until the entire 6 credits are earned.

Pronunciation, grammar, written and oral exercises, memorizing of vocabularies, dictation, translation.

Sh. 101-102.—Second Year Spanish. 3 hours. 6 credits. Group II. No credit toward a degree will be allowed until the entire 6 credits are earned.

Continuation of Sh. 21-22. Review of grammar, written and oral exercises, reading of modern texts.

Sh. 203-204.—Modern Spanish Literature. 3 hours. 6 credits. Group II. Either semester may be taken for credit without the other. HATHAWAY.

Study of representative modern authors; study of literary backgrounds and trends.

Prerequisite: Sh. 101-102.

Sh. 205-206. — Spanish - American Literature. 3 hours. 6 credits. Group II. HIGGINS.

Study of the works of representative authors of Spanish-America. Lectures, reports, translation.

Prerequisite: Sh. 101-102.

Sh. 213-214.—Elementary Composition and Conversation. 3 hours. 6 credits. Group II. Credit will be allowed for the first semester without the second, if the student so desires; however, the second semester cannot be taken without the first. DEGAETANI.

Drill on pronunciation, review of syntax, stylistics, writing of themes, practice in conversation.

Prerequisite: Sh. 101-102.

Sh. 223-224.—Commercial Spanish. 3 hours. 6 credits. Group II. Credit will be allowed for the first semester without the second, if the student so desires; however, the second semester cannot be taken without the first. HIGGINS.

Writing of business letters, circulars and advertisements; study of commercial documents and business practice, stress being placed upon those of Spanish-America.

Prerequisite: Sh. 101-102.

Sh. 303-304.—Survey of Spanish Literature. 3 hours. 6 credits. Group II. Either semester may be taken for credit without the other. HAUPTMANN.

Historical outline; reading of representative selections.

Prerequisite: Sh. 101-102 and permission of the instructor.

Sh. 305. — Argentine Literature. 3 hours. 3 credits. Group II. HIGGINS.

Study of romanticism, realism, *modernista* movement. Lectures, readings, reports.

Prerequisite: Sh. 205-206.

Not offered in 1932-33.

Sh. 307.—Mexican Literature. 3 hours. 3 credits. Group II. HIGGINS.

Study of principal literary movements. Lectures, readings, reports.

Prerequisite: Sh. 205-206.

Sh. 313-314.—Advanced Composition and Conversation. 3 hours. 6 credits. Group II. Credit will be allowed for the first semester without the second, if the student so desires; however, the second semester cannot be taken without the first. DEGAETANI.

Continuation of Sh. 213-214. Attention paid to details of pronunciation and style.

Prerequisite: 3 years of college Spanish, including Sh. 213-214.

Sh. 403-404.—Literature of the Golden Age. 3 hours. 6 credits. Group II. Credit will be allowed for the first semester without the second, if the student so desires; however, the second semester cannot be taken without the first. HAUPTMANN.

Study of the leading dramatists and prose writers of the sixteenth and seventeenth centuries. Special attention paid to stylistics peculiarities.

Prerequisite: 3 years of college Spanish.

SPEECH

Sch. 201.—Public Speaking. 3 hours. 3 credits. Group III.

Presentation of the principles used in public speaking with considerable practice in the delivery of original speeches. Individual improvement is emphasized and encouraged by constructive criticism.

Prerequisite: **Eh. 101-102.**

Laboratory fee: \$1.50.

Sch. 202.—Persuasive Speaking. 3 hours. 3 credits. Group III.

The subject and purpose of the speech and the occasion on which it is to be delivered are all considered with the aim of influencing the specific audience. Much practice in speaking.

Prerequisite: **Sch. 201.**

Laboratory fee: \$1.50.

Sch. 203-204.—Argumentation and Debating. 3 hours. 6 credits.

Group III. Credit will be allowed for the first semester without the second, if the student so desires; however, the second semester cannot be taken without the first. HOPKINS.

A consideration of the principles involved in winning an argument. How to expose the inadequacy of the opponent's evidence or the error in his reasoning.

The second semester is devoted entirely to meeting the practical problems of debate. All students expecting to join the varsity debate squad should take this course.

Prerequisite: **Eh. 101-102.**

Sch. 207-208.—Interpretation of Literature. 3 hours. 6 credits. Group III. Either semester may be taken for credit without the other.

CONSTANS.

Oral reading of the lyric, ballad, narrative, short story, and drama. Abridgment and readings of novels and plays.

Prerequisite: **Eh. 101-102.**

Sch. 212.—Courtroom Speaking. 3 hours. 3 credits. Group III. CONSTANS.

Reading and analysis of courtroom speeches by famous lawyers, such as Webster, Choate, Ingersoll, Borah, Littleton, and Darrow. Designed primarily for students in combined academic and Law course.

Prerequisite: **Eh. 101-102.**

Sch. 214.—Parliamentary Practice in Public Discussion. 2 hours. 2 credits. Group III. HOPKINS.

Practice in facilitating group discussions by the proper use of "Parliamentary Law" with special attention to the problems that confront the chairman.

Prerequisite: **Eh. 101-102.**

Sch. 301.—Advanced Public Speaking. 2 hours. 2 credits. Group III. HOPKINS.

In preparing speeches for the more formal occasions attention will be given to structure, style, and delivery, with special emphasis on the psychology of audience persuasion.

Prerequisite: **Sch. 202.**

Sch. 303.—One-Act Play. 3 hours. 3 credits. Group III. CONSTANS.

The one-act play as a type of drama. The reading and criticism of the best one-act plays by contemporary writers. The technique of play writing.

Prerequisite: **Eh. 101-102.**

Sch. 304.—Modern Drama. 3 hours. 3 credits. Group III. CONSTANS.

A survey of the life and works of recent playwrights (1860 to 1915); extensive reading of plays.

Prerequisite: **Eh. 101-102.**

Sch. 305.—Famous American Speakers. 3 hours. 3 credits. Group

III. HOPKINS.

Speeches of the greatest American authors studied against the background of their lives and the issues of their times. Special emphasis on present political speakers.

Prerequisite: Eh. 101-102.

Sch. 306.—Famous British Speakers. 3 hours. 3 credits. Group III.

HOPKINS.

Speeches of the greatest British authors studied against the background of their lives and the issues of their times.

Prerequisite: Eh. 101-102.

Not offered in 1932-33.

Sch. 357.—Business Speaking. 3 hours. 3 credits. Group III. Staff.

Reading of written reports; conduction of business conferences; analysis of speech composition; delivery of informational and argumentative talks.

Prerequisite: Eh. 101-102.

Sch. 403.—Contemporary Drama. 3 hours. 3 credits. Group III.

CONSTANS.

A survey of drama from 1915 to 1930; special attention is given to the best plays produced in America.

Prerequisite: Eh. 101-102.

Not offered in 1932-33.

Sch. 404.—Dramatic Production. 2 hours, and 3 hours laboratory. 3 credits. Group III. CONSTANS.

Consideration of voice, line reading, technique of acting, and principles of character interpretation, the problem of directing, stage equipment, costuming, lighting, and make-up. Rehearsal of one-act plays.

Prerequisite: Eh. 101-102.

Not offered in 1932-33.

THE UNIVERSITY CALENDAR

1932-1933

First Semester

- September 9, 10, Friday-Saturday.....Entrance examinations.
 September 12, Monday, 11:00 a.m.....1932-33 session begins.
 September 12-17, Monday-SaturdayFreshman Week.
 September 16-17, Friday-Saturday
 noonRegistration of upperclassmen.
 September 19, Monday 8:00 a.m.....Classes for 1932-33 session begin; late
 registration fee, \$5.
 September 24, Saturday 12:00 noon.....Last day for changing course without
 paying the \$2 fee.
 September 24, Saturday 12:00 noon.....Last day for registration for the first
 semester 1932-33.
 November 11, Friday.....Armistice Day; special exercises but
 classes are not suspended.
 November 23, Wednesday 5:00 p.m.....Thanksgiving recess begins.
 November 28, Monday 8:00 a.m.....Thanksgiving recess ends.
 December 17, Saturday 12:00 noon.....Christmas recess begins.

1933

- January 2, Monday 8:00 a.m.....Christmas recess ends.
 January 23, Monday 8:00 a.m.....Final examinations for the first se-
 mester begin.
 January 29, Sunday.....Baccalaureate Sermon.
 January 30, Monday 10:00 a.m.....Commencement Convocation.
 February 1, Wednesday.....Inter-Semester Day, a holiday.

Second Semester

- February 2-3, Thursday-Friday.....Registration for second semester; all
 students whose names begin with "A"
 through "M" register on Thursday; all
 others on Friday.
 February 4, Saturday 8:00 a.m.....Classes for second semester begin;
 change of course fee, \$2; late registra-
 tion fee, \$5.
 February 10, Friday 5:00 p.m.....Last day for registration for second
 semester.
 April 5, Wednesday 5:00 p.m.....Spring recess begins.
 April 10, Monday 8:00 a.m.....Spring recess ends.
 May 25, Thursday 8:00 a.m.....Final examinations begin.
 June 3-5, Saturday-Monday.....Commencement Exercises.

Entrance Examinations

Entrance examinations for admission to the various colleges of the University will be conducted for students whose credits do not meet the requirements.

Candidates wishing to take any of these examinations should notify the Registrar in writing, not later than September 1, January 15, or June 1.

For further information concerning these examinations see the *Bulletin of General Information*.

The University Record

of the

University of Florida

Bulletin of the

College of Education

*With Announcements for the
Year 1932-33*



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The Reports of the President and the Board of Control, the Bulletin of General Information, the annual announcements of the individual colleges of the University, announcements of special courses of instruction, and reports of the University Officers.

These bulletins will be sent gratuitously to all persons who apply for them. The applicant should specifically state which bulletin or what information is desired. Address

THE REGISTRAR
University of Florida
Gainesville, Florida

Research Publications.—Research publications will contain results of research work. Papers are published as separate monographs numbered in several series.

There is no free mailing list of these publications. Exchanges with institutions are arranged by the University Library. Correspondence concerning such exchanges should be addressed to the University Librarian, University of Florida, Gainesville, Florida. The issue and sale of all these publications is under the control of the Committee on Publications. Requests for individual copies, or for any other copies not included in institutional exchanges, should be addressed to the University Library, University of Florida, Gainesville, Florida.

The Committee on University Publications
University of Florida
Gainesville, Florida

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FACULTY OF THE COLLEGE OF EDUCATION

ADMINISTRATIVE OFFICERS

JOHN JAMES TICERT, M.A. (Oxon.), Ed.D., D.C.L., LL.D., President
JAMES MARION FARR, Ph.D., Vice-President
JAMES WILLIAM NORMAN, Ph.D., Dean
GLENN BALLARD SIMMONS, M.A., Assistant Dean (On leave, 1932-33)
IRENE ERSKINE PERRY, B.S., Secretary
HARLEY WILLARD CHANDLER, M.S., Registrar
JOHN VREDENBURGH MCQUITTY, M.A., Director of Admissions

FACULTY

LEWIS BRISCOE COOPER, Ph.D. (Cincinnati), Assistant Professor of Supervised Teaching
ALFRED CRAIG, Ph.D. (Iowa), Professor of Educational Psychology and Tests and Measurements
JOSEPH RICHARD FULK, Ph.D. (Nebraska), Professor of Public School Administration
EDWARD WALTER GARRIS, Ph.D. (Peabody), Professor of Agricultural Education
ELLSWORTH GAGE LANCASTER, B.D., Ph.D. (Clark), LL.D., Assistant Professor of Child and Adolescent Psychology
WINSTON WOODARD LITTLE, M.A., Associate Professor of Secondary Education
ARTHUR RAYMOND MEAD, Ph.D. (Columbia), Professor of Supervised Teaching
JAMES WILLIAM NORMAN, Ph.D. (Columbia), Dean, and Professor of Education
ELLIS BENTON SALT, M.A., Associate Professor of Health and Physical Education
GLENN BALLARD SIMMONS, M.A., Assistant Dean, and Associate Professor of Public School Administration (On leave, 1932-33)
BUNNIE OTHANEL SMITH, B.S.E., Assistant Professor of Curriculum Revision
JACOB HOOPER WISE, M.A., Assistant Professor of Supervised Teaching (On leave, 1932-33)

GENERAL INFORMATION

HISTORY

When the University was established by the Buckman Act in 1905, a normal department was provided in the College of Arts and Sciences for the purpose of training teachers. Normal instruction remained a part of the work of the College of Arts and Sciences until 1912, when the Peabody Education Board gave \$40,000 to the University for the purpose of erecting a building for Teachers College. This building was completed in 1913, and Teachers College was established as a separate school, for the training of teachers, supervisors, and school administrators. The name of the college was changed from Teachers College to the College of Education in 1931.

OBJECTIVES

The primary objective of the College of Education is to furnish such training as will be most useful to its students in the profession of teaching. It is the policy of the College that its graduates shall be thoroughly grounded in the subjects which they expect to teach; however, it is considered equally as important that they should be resourceful in teaching a class and skillful in managing a school or system of schools. Thus, about three-fourths of the student's time is devoted to academic subjects, and the remainder to professional subjects. More specifically, the College prepares its students for positions as teachers, principals, supervisors, and city and county superintendents of instruction, striving to develop in them a keen insight into human affairs, human relationships, and human problems.

LIBRARY

The Library of the University contains more than 65,000 volumes, more than 3,000 of which are modern books on Education. In addition, the Library has complete files of leading American Educational journals.

FACILITIES FOR OBSERVATION AND PRACTICE

Through the courtesy of the public school authorities of Gainesville, opportunity for educational investigation as well as student-teaching and observation under supervision is provided. Gainesville has two elementary schools and one well equipped junior-senior high school. There are more than a score of standard elementary and secondary schools within a twenty-mile radius of the University. These offer opportunity for first-hand study of all phases of education.

FEES AND EXPENSES

No special tuition fees are charged students registered in the College of Education. Laboratory fees are specified in the descriptions of the courses. For detailed information concerning living expenses and general fees, the prospective student should consult the *Bulletin of General Information*, pages 159-164.

SCHOLARSHIPS

In order to encourage worthy young people to become teachers, the Legislature of the State of Florida has provided that every county in the state shall have as many scholarships in the College of Education of the University of Florida as that county has members of the House of Representatives. These scholarships carry an annual stipend of \$200, and are awarded on the basis of competitive examinations on high school subjects. Applicants for these examinations must be residents of the state, graduates of a four-year high school, and must intend to make teaching their profession. Recipients of the scholarships must register in the College of Education and must teach in the State for two years after the completion of their courses. Applications for the examinations, which are given in the county seats during the month of August, should be made to the Superintendent of Public Instruction.

For information concerning fellowships, loan funds, and other scholarships, see the *Bulletin of General Information*, pages 165-170.

EMPLOYMENT BUREAU

A teachers' employment bureau is maintained by the College in order to assist students and graduates of the University to secure teaching positions. Information concerning vacancies and available teachers is kept on file. Information concerning prospective vacancies is welcomed, and school officials are urged to make use of the facilities of the Bureau when college-trained men and women are needed for teaching positions.

SOCIETIES AND CLUBS

Phi Kappa Phi.—A chapter of the Honor Society of Phi Kappa Phi was established at the University during the spring of 1912. To be eligible for membership a student must have been in attendance at the University for at least one year, or three summer sessions, have been guilty of no serious breaches of discipline, have had at least three years of collegiate training, be within one semester of finishing a course leading to a degree, and stand among the first tenth of the senior class of the University. Candidates for election to Phi Kappa Phi must have attained an honor point average of at least 2 on all scholastic work, wherever done, for which credit toward a degree is received.

Kappa Delta Pi.—Kappa Delta Pi is an honorary educational society. Juniors and seniors in the College of Education making an honor point average of at least 2 are eligible for membership.

Alpha Tau Alpha.—Alpha Tau Alpha is a professional educational fraternity for teachers of agriculture. Juniors with an honor point average of at least 2 and seniors with an honor point average of at least 1 are eligible for membership if elected by the fraternity.

Kappa Phi Kappa.—Kappa Phi Kappa is a professional educational society in the College of Education. Juniors and seniors who show a good professional spirit are eligible for election by the membership of the society.

Peabody Club.—All students of the College of Education are eligible for membership in Peabody Club. This organization meets weekly in Peabody Auditorium, where delightful and instructive programs are rendered.

GENERAL REGULATIONS

STUDENT RESPONSIBILITY

The student must assume full responsibility for registering for the proper courses and for fulfilling all of the requirements for his degree. The faculty will assist and advise, but the student must acquire the initiative and the responsibility for managing his own affairs.

The student should familiarize himself with the regulations of the University, which are contained in the *Bulletin of By-Laws*. He will be held responsible for the observance of these regulations as long as he is connected with the University.

General information concerning the University which prospective students in particular would desire to know is contained in the *Bulletin of General Information*.

CORRESPONDENCE COURSES

Not more than one-fourth of the credits which are applied toward a degree, nor more than 12 of the last 36 credits which are earned toward a bachelor's degree, may be taken by correspondence study or extension class. Candidates for the Normal Diploma may not earn more than 16 credits by correspondence study or extension class. While in residence, the student will not be allowed to carry on correspondence work without the consent of the Dean; this permission will be granted only in exceptional cases. Not more than nine credits may be earned by correspondence study during the summer vacation period.

CERTIFICATES

Graduate State Certificates.—Graduates of the University are granted Graduate State Certificates without further examination, provided that three-twentieths of their work has been devoted to professional training and provided that they have satisfied the requirement of the law as to the Constitution of the United States. It is well for the student to note that a Graduate State Certificate permits him to teach only those subjects that are listed on such certificate, and that only those subjects in which he has specialized in his college course will be placed on his certificate. This will ordinarily mean that two years of college credit in the subject must have been earned, in addition to credit for all high school courses offered in that subject by a standard high school, before a certificate to teach that subject will be granted. For application blanks and for further information, apply to the State Superintendent of Public Instruction, Tallahassee.

Graduate State Certificates may be converted into Life Certificates by "presenting satisfactory evidence of having taught successfully for a period of twenty-four months under a Graduate State Certificate, and presenting endorsements of three holders of Life State, Life Graduate State, or Life Professional Certificates." Application for a Life Graduate State Certificate must be filed before the expiration of the Graduate State Certificate.

EXTENSION OF CERTIFICATE

Students enrolled in the College of Education, upon recommendation of the faculty, receive an extension of one year on any or all valid Florida certificates.

ADMISSION

GENERAL REQUIREMENTS

For full information concerning the general requirements for admission to the University of Florida, the prospective student should consult the *Bulletin of General Information* for 1932-1933, pages 149-158.

SPECIAL REQUIREMENT

For admission to the College of Education, the candidate must present two units of a foreign language. However, this requirement may be waived if the candidate presents a total of four units from the following groups of subjects:*

History and Social Sciences

- Ancient history, one unit
- English history, one unit
- Medieval history, one unit
- American history, one-half or one unit
- Civics, one-half or one unit
- Sociology, one-half unit
- Economics, one-half unit

Natural Science

- Biology, one unit
- Botany, one-half unit
- Chemistry, one unit
- General science, one unit
- Physical geography, one unit
- Physics, one unit
- Physiology, one-half or one unit
- Zoology, one-half unit

ENTRANCE CREDIT BY EXAMINATION

Teachers' certificates obtained by special examinations given by the State Department of Education entitle the holder to entrance credits by examination, as follows:

The First Grade Certificate.—The first grade certificate entitles the holder to entrance credit by examination as follows: rhetoric and composition, two units; ancient history, one unit; medieval and modern history, one unit; psychology, one unit; biology, one unit (only if it appears on certificate); civics, one-half unit; algebra, two units; agriculture, one-half unit—total, nine units.

*Note: One unit in foreign language is never accepted to fulfill entrance requirements. Only one unit will be accepted in biology, botany, and zoology combined.

The Second Grade Certificate.—The second grade certificate entitles the holder to entrance credit by examination as follows: composition, one unit; civics, one-half unit; agriculture, one-half unit—total, two units.

The Primary Certificate.—The primary certificate entitles the holder to entrance credit by examination as follows: United States history, one half unit; psychology, one unit; manual arts, one unit; nature-study, one unit; drawing, one unit; composition, one unit; public school music, one-half unit—total, six units.

Special Certificates.—Special certificates will be considered on their merits.

SPECIAL STUDENTS

Persons twenty-one or more years of age who cannot satisfy the entrance requirements, but who give evidence of ability to profit by the courses they may take, may, under special circumstances, be admitted as "Adult Special" students. They are required to comply with the same regulations as regular students, except for the entrance requirements.

DEGREES AND CURRICULA

DEGREES OFFERED

Students completing any of the prescribed four-year courses may obtain the respective degree: i.e., Bachelor of Arts in Education, Bachelor of Science in Education, Bachelor of Science in Agricultural Education, Bachelor of Science in Physical Education, Bachelor of Arts in Physical Education, or Bachelor of Science in Manual Arts.

Students completing the prescribed two-year course may obtain the Normal Diploma.

ABBREVIATIONS

The following abbreviations are used in this bulletin:

Bcy. Bacteriology	HPI. Health and Physical Education
Bly. Biology	Hy. History
Bty. Botany	Jm. Journalism
Bs. Business Administration	Ln. Latin
Cy. Chemistry	Ms. Mathematics
Dg. Drawing	Mc. Mechanic Arts
Es. Economics	My. Military Science
En. Education	Pl. Physical Education
El. Electrical Engineering	Ps. Physics
Eh. English	Pel. Political Science
Ey. Entomology	Psy. Psychology
Fh. French	Sy. Sociology
Gn. German	Sh. Spanish

THE GROUPS

For the degrees of Bachelor of Arts in Education and Bachelor of Science in Education the student must complete all courses in two of the following groups. Group E must be elected if the student desires the degree of Bachelor of Science in Education:

A—ANCIENT LANGUAGES	B—MODERN LANGUAGES	C—ENGLISH
Ln. 101-102 } Ln. 201-202 } 18 Ln. 203-204 } credits	Fh. 21-22 } Fh. 101-102 } Fh. 201-202 } or Sh. 21-22 } Sh. 101-102 } } 18 Sh. 201-202 } credits or Gn. 21-22 } Gn. 101-102 } Gn. 201-202 }	Eh. 101-102 } Eh. 103-104 } Eh. 201-202 } } 27 Eh. 301-302 } credits Eh. 305 or 306 }
D—MATHEMATICS	E—NATURAL SCIENCE	Foreign Language } 6 credits } English or Foreign } 12 Language 6 credits } credits
Ms. 101-102 } Ms. 251-252 } 18 Ms. 331 } credits Ms. 568 }	Bly. 101 } Bty. 101-102 } Bly. 106 } 36 Cy. 101-102 } credits Ps. 111-112 } Ps. 115-116 }	F—SOCIAL SCIENCE
G—COMMERCIAL EDUCATION		Hy. 101-102 } Pel. 101-102 } 24 Es. 101-102 } credits Sy. 111-112 }
Es. 101-102 } Bs. 83-85 } Bs. 86 } Bs. 103-104 } 36 Bs. 211-212 } credits Bs. 401-102 } Eh. 355-356 }		Adv. Hy. 12 } credits or } Adv. Pel. 12 } } 12 credits or } credits Adv. Es. 12 } credits or } Adv. Sy. 12 } } 36 credits } credits

CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF ARTS IN EDUCATION OR
BACHELOR OF SCIENCE IN EDUCATION

See page 530 for a statement regarding group requirements for either of the two degrees.

	Credit
Education 101	3
Education 102 or 103.....	3
Education 203	3
Education 207	3
Education 308	3
*Education 311, 312, 341, 371, 372.....	4
Education 401	3
Education 403	3
*Education 415, 425, 435, 455, 465.....	4
English 101-102	6
English 201-202	6
Military Science 103-104.....	4
Military Science 203-204.....	4
Physical Education 101-102.....	2
All Courses listed in Two Groups (see page 530) and Electives (Approved by the Dean)	81
Total Credits	132

Students who expect to be principals must include the following courses among their electives:

Education 404	3
Education 406 or Education 408.....	3

*These courses carry two credits each and must be selected in accordance with the two groups in which the student is working.

CURRICULUM LEADING TO THE NORMAL DIPLOMA

If, while the student is working on the curriculum leading to a bachelor's degree, he desires to secure the Normal Diploma, he may do so when he has satisfactorily completed the following work:

Education 101	3
Education 102 or 103	3
Education 203	3
Education 253	2
English 101-102	6
English 201-202	6
Military Science 103-104.....	4
Military Science 203-204.....	4
From one group (see page 530).....	12
From another group (see page 530).....	12
Electives (Approved by the Dean).....	11
Total Credits	66

English 101-102 and English 201-202 do not count as group work for the Normal Diploma.

CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF SCIENCE
IN AGRICULTURAL EDUCATION

Academic Subjects	Credits
English 101-102	6
Speech 201	3
Journalism 316	3
Psychology 201	3
Mathematics 204	3
Sociology 111 or 112	3
	21
Military Science and Physical Education	
Military Science 103-104	4
Military Science 203-204	4
Physical Education 101-102	2
	10
Science Subjects	
Chemistry 105-106	9
Botany 101-102	8
Biology 101	5
Physics 111	4
Entomology 302 }	4
or	
Bacteriology 301 }	
	30
Professional Subjects	
Education 207	3
Education 303-304	6
Education 306	3
Education 401	3
Education 409-410	6
	21
Agricultural Subjects	
Animal Husbandry 104	4
Dairying 201	3
Poultry Husbandry 202	3
Veterinary Science 302	2
Horticulture 206	3
Horticulture 101	3
Agricultural Engineering 202	4
Agricultural Engineering 303	3
Agronomy 301	5
Agronomy 302	3
Agricultural Economics 306	3
Agricultural Economics 308	3
Electives in Agriculture	8
	47
Approved Electives	
	3
Total credits	132

CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF ARTS OR BACHELOR OF SCIENCE IN HEALTH AND PHYSICAL EDUCATION

Freshman Year

First Semester		Second Semester	
Names of Courses	Credits	Names of Courses	Credits
English 101	3	English 102	3
(Select a minor I from Division I)...	5	(Continue Division I minor)	5
Education 101	3	(Select minor II from Division I or II)	3
HPL 101—Football	2	HPL 114—Natural Activities	2
HPL 111—Basketball	2	HPL 0107—Hygiene	2
Military Science 103.....	2	Military Science 104.....	2
Total	17	Total	17

Sophomore Year

English	3	English	3
(Work in minors I or II).....	3	(Work in minors I or II).....	3
HPL 211—Anatomy	2	HPL 212—Anatomy	2
HPL 201—Football	2	En. 0103—Health Education	3
HPL 215—Principles	2	HPL 216—Principles	2
HPL 213—Natural Activities	2	HPL 214—Natural Activities	2
HPL 251—Boxing	1	Military Science 204.....	2
Military Science 203.....	2	Total	17
Total	17	To'al	17

Junior Year

HPL 301—Football	1	HPL 304—Track	2
HPL 303—Basketball	1	HPL 312—Organ, and Adm.....	4
HPL 311—Organ, and Adm.....	4	En. 0207—Educational Psychology ..	3
En. 203—Child Psychology	3	HPL 314—Natural Activities	2
HPL 313—Natural Activities	2	(Work in minors I or II).....	5
(Work in minors I or II).....	5	Total	16
Total	16	Total	16

Senior Year

En. 475—Supervised Teaching	3	En. { 0401 406—Administration }	3
En. Methods in one minor.....	2		
HPL 351—Intramurals	2		
HPL 353—(Lab. for HPL 351)	1	HPL 344—Baseball	2
(Use as elective or for completing minors I-II)	8	Sch. 0201—Public Speaking	3
Totals	16	(Use as elective or for completing minors I-II)	8
Totals	16	Total	16

Note: In addition to the specific courses noted above, the student in Health and Physical Education must select and complete two minors. The first minor must be selected from Division I; the second minor from either Division I or II.

Division I	Credits	Division II	Credits
Select a first minor from this group		Select a second minor from this group or from Division I	
Minors		Minors	
1. Chemistry	15	1. History	15
2. Biology	15	2. Political Science	15
3. Physics	15	3. Sociology	15
4. Botany and Bacteriology.....	15	4. Economics	15
		5. Mathematics	15

CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN MANUAL ARTS

First Semester		Second Semester	
Names of Courses	Credits	Names of Courses	Credits
Freshman Year			
Ms. 85—Trigonometry or Ms. 101—College Algebra	} 3	Dg. 104—Mechanical Drawing	1
Dg. 101—Mechanical Drawing		Dg. 106—Mechanical Drawing	1
Dg. 102—Mechanical Drawing	1	Eh. 102—Rhetoric and Composition	3
Eh. 101—Rhetoric and Composition	3	En. 103—Health Education	3
En. 101—How to Teach	3	Mc. 108—Woodworking	3
Mc. 107—Woodworking	3	Ms. 83—Solid Geometry	} 3
My. 103—Artillery	2	Ms. 102*—Analytic Geometry	
Pl. 101—Gymnastics	1	My. 104—Artillery	2
	—	Pl. 102—Gymnastics	1
	17		17
Sophomore Year			
Dg. 201—Machine Drawing	1	Dg. 202—Machine Drawing	1
En. 203—Child Psychology	3	En. 207—Educational Psychology	3
Mc. 207—Carpentry	3	Mc. 208—Carpentry	3
Mc. 209—Metal Work	2	Mc. 210—Metal Work	2
My. 203—Artillery	2	My. 204—Artillery	2
Ps. 111—Mechanics and Heat	3	Ps. 112—Sound, Electricity, and Light	3
Ps. 115—Laboratory for Ps. 111	2	Ps. 116—Laboratory for Ps. 112	2
	16		16
Junior Year			
El. 201—Elements of Electrical En- gineering	2	El. 202—Elements of Electrical En- gineering	2
El. 203—Electrical Laboratory	1	El. 204—Dynamo Laboratory	1
En. 373—Materials and Methods in Mechanic Arts	2	En. 306—Theoretical Education	3
Mc. 211—Forge Shop	2	Mc. 212—Foundry	2
Mc. 307—Cabinet Work	3	Mc. 308—Cabinet Work	3
Electives in One Group	6	Electives in One Group	6
	16		17
Senior Year			
En. 317—Tests and Measurements	3	En. 408—High School Administration	3
En. 477—Supervised Teaching	2	Mc. 304—Patternmaking	2
Mc. 301—Machine Shop	2	Mc. 406—Cabinet Work	3
Mc. 405—Cabinet Work	3	Electives in One Group	9
Electives in One Group	6		—
	16		17

*Prerequisite: Ms. 101.

DEPARTMENTS OF INSTRUCTION

Subjects with odd numbers are offered in the first semester and subjects with even numbers are offered in the second semester unless the number begins with 0, in which case the reverse is true.

The number of hours given is the number of hours which the class meets per week.

The number of credits is the number of semester credit hours earned by each student who receives a passing grade (A, B, C, or D) when the subject is completed. Unless specifically stated, credit will be allowed for one semester of a year course.

Subjects numbered 200 or above are not as a rule open to freshmen; subjects numbered 300 or above are not as a rule open to sophomores; subjects numbered 400 or above are not as a rule open to juniors; subjects numbered 500 or above are for graduate students.

The abbreviations used are wherever possible the first and last letter of the first word of the department name. Occasionally, a third central letter is added to distinguish between departments where first and last letters are identical.

BACTERIOLOGY

Administered in the College of Agriculture

Bcy. 301—General Bacteriology. 2 hours, and 4 hours laboratory. 4 credits. CARROLL.

Morphology, physiology, and cultivation of bacteria and related micro-organisms.

Prerequisites: **Bty. 101, Bly. 101, Cy. 253** or equivalents.

Laboratory fee: \$5.

BIOLOGY

Administered in the College of Arts and Sciences

Bly. 101 or 0101.—Principles of Animal Biology. 2 hours, 1 hour recitation, and 4 hours laboratory. 5 credits. BYERS, HUBBELL, SHERMAN.

An introduction to the subject matter and principles of zoology.

A prerequisite for all other courses in this department except **Bly. 0105, 121,** and **122.**

Laboratory fee: \$5.

Bly. 104.—Comparative Vertebrate Anatomy. 2 hours, 1 hour recitation, and 4 hours laboratory. 5 credits. SHERMAN.

A comparative study of the anatomy of the main classes of vertebrates.

Prerequisite: **Bly. 101.**

Laboratory fee: \$5.

BOTANY

Administered in the College of Agriculture

Bty. 101.—General Botany. 2 hours, and 4 hours laboratory. 4 credits. CODY, CARROLL.

Structure and life histories of important algae, fungi, mosses, and ferns.

Laboratory fee: \$5.

Bty. 102.—General Botany. 2 hours, and 4 hours laboratory. 4 credits. CODY, CARROLL.

Structure, environment, and principles of identification of seed plants.

Laboratory fee: \$5.

Bty. 104.—Economic Botany. 2 hours, 1 hour recitation, and 2 hours laboratory. 5 credits. CODY.

A non-technical course for those not specializing in the plant sciences but desiring to know something of the structure and function of some of the economic plants and how to identify some of the local ferns and flowering plants.

Laboratory fee: \$5.

Bty. 0302 or 302.—Plant Physiology. 2 hours, and 4 hours laboratory. 4 credits. CODY.

Physiological processes of plants with respect to absorption, assimilation, transpiration, metabolism, respiration, and growth.

Desired prerequisites: Cy. 232 or 262, or equivalent; Ay. 301, and Ps. 111, or equivalents.

Laboratory fee: \$5.

BUSINESS ADMINISTRATION

Administered in the College of Commerce and Journalism

Bs. 83 or 083.—Office Management and Typing. 1 hour, and 4 hours laboratory. 2 credits. SCAGLIONE.

Instruction in office organization and office function; practical use of modern office appliances; filing. Instruction in typing.

Laboratory fee: \$15.

Bs. 85.—Shorthand. 3 hours. 2 credits. SCAGLIONE.

Instruction in elementary principles of practical stenography.

Fee: \$5.

Bs. 86.—Advanced Shorthand. 3 hours. 2 credits. SCAGLIONE.

Proficiency in the practical use of shorthand.

Prerequisite: Bs. 85 or knowledge of elementary shorthand.

Fee: \$5.

Bs. 101E.—Economic History of England. 3 hours. 3 credits.

Survey and interpretation, with brief reference to France and Germany. The origin and development of economic institutions, the manor, industrial revolution, commerce, transport, labor, agriculture, finance, effects on social and political development and on development in the United States.

Bs. 102E.—Economic History of the United States. 3 hours. 3 credits.

Interpretative survey of industrial development—consideration of the development of industry, agriculture, trade and transportation, labor, banking, finance, population; the influence of economic development on political and social development, and of foreign economic development on the United States.

Bs. 103.—Principles of Economic Geography. 3 hours. 3 credits.

DIETRICH, HICKS.

A study of the relations of physical and economic conditions to the production and trade in selected important agricultural, forest, mineral, and manufactured products of the world; emphasis will be placed on the regional aspects of the commodities and on the natural economic and social factors which affect the adjustments that man has made in various regions of the world in order to make a living.

Bs. 104.—Principles of Economic Geography. 3 hours, 3 credits.
ATWOOD, DIETRICH, HICKS.

A continuation of the work in Bs. 103, special emphasis being given to the adjustments that man has made to the natural economic and social factors and the resulting interdependence of the great producing and consuming regions of the world. Special attention will be given to the industrial and commercial development of the United States in relation to the rest of the world.

Bs. 201E-202E or 0202E-0201E.—Principles of Economics. 3 hours. 6 credits. No credit toward a degree will be allowed until Bs. 202 is completed. MATHERLY, ELDRIDGE, M. D. ANDERSON, BIGHAM, HICKS.

An analysis of production, distribution, and consumption. Attention is devoted to the principles governing value and market price, with a brief introduction to money, banking and credit, industrial combinations, transportation and communication, labor problems, and economic reform.

Bs. 211-212 or 0212-0211.—Principles of Accounting. 2 hours, and 2 hours laboratory. 6 credits. No credit toward a degree will be allowed until Bs. 212 is completed. GRAY, WARD.

Lectures, problems, and laboratory practice. An introductory study of the underlying principles of double entry records; basic types of records and reports; accounting procedure and technique; the outstanding features of partnerships and corporations; the form and content of the balance sheet and the statement of profit and loss.

Bs. 401.—Business Law. 3 hours, 3 credits. HURST.

Contracts and agency; the formation, operation, interpretation, and discharge of binding agreements; creation of the relation of agency; types of agents; rights and obligations of the agent, principal, and third party; termination of the relationship of agency.

Bs. 402.—Advanced Business Law. 3 hours, 3 credits. HURST.

Conveyances and mortgages of real property; sales and mortgages of personal property; the law of negotiable instruments; partnership.

Bs. 404E.—Government Control of Business. 3 hours, 3 credits. HURST.

General survey of the field of government control; purposes of government control; control of accounts, prices, and capitalization; government policy toward business, current government regulation; services and agencies which modern governments undertake to provide for business enterprises.

Prerequisite: Bs. 201E-202E.

CHEMISTRY

Administered in the College of Pharmacy

Cy. 101.—General Chemistry. 3 hours, 1 hour recitation, and 3 hours laboratory. 5 credits. No credit toward a degree will be allowed until credit in Cy. 102 is earned. HEATH, BEISLER, OTTE, ELLIS, THRONSON.

The fundamental laws and theories of chemistry, and the preparation and properties of the common non-metallic elements and their compounds. Students may begin this course either the first or second semester.

Laboratory fee: \$5.

Cy. 102.—General Chemistry, continued. 3 hours, 1 hour recitation, and 3 hours laboratory. 5 credits. HEATH, BEISLER, OTTE, ELLIS, THRONSON.

Devoted largely to a study of the metallic elements and their compounds.

Laboratory fee: \$5.

Cy. 105.—General Chemistry. 3 hours, and 3 hours laboratory. 4 credits. No credit toward a degree will be allowed until credit in Cy. 106 is earned. **BLACK.**

The fundamental laws and theories of chemistry and the preparation and properties of the common non-metallic elements and their compounds.

Laboratory fee: \$5.

Cy. 106.—General Chemistry, continued, and Qualitative Analysis. 3 hours, and 6 hours laboratory. 5 credits. **BLACK, JACKSON.**

A study of the metallic elements and their compounds and the essentials of qualitative analysis.

Laboratory fee: \$5.

DRAWING

Administered in the College of Engineering

Dg. 101-102.—Mechanical Drawing. 3 hours. 2 credits. **WALKER.**

Geometrical problems, lettering, and dimensioning.

Required of all first-year students in manual arts.

Laboratory fee: \$0.25.

Dg. 104.—Mechanical Drawing. 3 hours. 1 credit. **WALKER.**

Projection, machine parts, and tracing.

Required of all first-year students in manual arts.

Dg. 106.—Mechanical Drawing. 3 hours. 1 credit. **WALKER.**

Project drawing in connection with wood and sheet metal work.

Required of all first-year students in manual arts.

Laboratory fee: \$0.25.

Dg. 201-202.—Machine Drawing. 3 hours. 2 credits. **STRONG.**

Detail and assembly drawings and tracings of machines and machine parts.

Prerequisite: **Dg. 101-102.**

Required of all second-year students in manual arts.

For courses in mechanic arts see "Mechanic Arts", this bulletin, page 549.

ECONOMICS

Courses in Economics are listed under Business Administration.

EDUCATION

En. 21.—Educational Adjustment. 3 hours. No credit. **CRAGO.**

A course designed to meet the needs of students who may for any reason be failing in their studies.

En. 101 or 0101.—Introduction to Classroom Teaching. 3 hours. 3 credits. **COOPER.**

For students who have not taken any courses in Education.

En. 102 or 0102.—History and Principles of Education. 3 hours. 3 credits. **SMITH.**

A study of the historical background of education, and of the fundamental principles which should guide educational procedure and give appreciation of educational conditions of today.

En. 103 or 0103.—Health Education. 3 hours. 3 credits. LANCASTER.

Conditions and forces that affect the physical and mental vigor of children, youth and teachers, and relate the school to the health of the home and community; the teacher's health; sanitation of school buildings; hygienic equipment; common diseases and physical defects; mental hygiene; play and recreation; community hygiene; teaching of health education in elementary and high schools; the Florida health program.

En. 203 or 0203.—Child and Adolescent Psychology. 3 hours. 3 credits. LANCASTER.

The nature, growth, and development of the child from birth to adolescence with reference to education will be the main consideration of this course.

En. 207 or 0207.—Educational Psychology. 3 hours. 3 credits. CRAGO.

Psychology applied to education, the learning process, acquisition of skill, etc.

En. 243-244.—Methods of Teaching the Common Branches. 3 hours. 6 credits.

A course in methods of teaching the elementary school projects.

Not offered in 1932-33.

En. 303-304.—Methods of Teaching Vocational Agriculture. 3 hours. 6 credits. GARRIS.

The organization of a long-time teaching program: selection of proper equipment, and the arrangement of the classroom and farm shop; organization of all-day, day-unit, part-time, and evening classes; and methods employed in teaching these various groups.

En. 306.—Vocational Education. 3 hours. 3 credits. GARRIS.

The development, function, and scope of vocational education: agricultural education, home economics education, trade and industrial education, and commercial education as provided for by the National Vocational Education Act of Congress.

En. 308.—The Elementary School Curriculum. 3 hours. 3 credits. SMITH.

The curriculum as a group of related problems and projects of vital interest to children. An attempt to formulate a curriculum based on social conditions and social needs.

En. 311.—Materials and Methods in English. 2 hours. 2 credits.

Open to juniors and seniors who have not had En. 301.

En. 312.—Materials and Methods in Foreign Languages. 2 hours. 2 credits.

Open to juniors and seniors who have not had En. 301.

En. 317.—Tests and Measurements. 3 hours. 3 credits. CRAGO.

An elementary course designed to aid the teacher in the use of tests in the improvement of instruction and in the solution of school problems. One hour of laboratory work per week is required.

Fee: \$1.50.

En. 341.—Materials and Methods in History. 2 hours. 2 credits. SMITH.

Open to juniors and seniors who have not had En. 301.

En. 371.—Materials and Methods in Science. 2 hours. 2 credits. CRAGO.

Open to juniors and seniors who have not had En. 301.

En. 372.—Materials and Methods in Mathematics. 2 hours. 2 credits. CRAGO.

Open to juniors and seniors who have not had En. 301.

En. 373.—Materials and Methods in Manual Arts. 2 hours. 2 credits. Open to juniors who are taking Manual Arts curriculum.

En. 401 or 0401.—Administration and Supervision of Village and Consolidated Schools. 3 hours. 3 credits. FULK.

Problems peculiar to schools in Florida; the supervising principal, qualifications, relation to superintendent, boards, teachers, pupils, patrons, and community; adapting the school to the child's needs; business practices. Required of seniors.

En. 402.—Administration Practice. 3 hours. 3 credits. FULK.

An intensive study of the supervision of instruction; visits to schools for the study of administrative and supervising practice; a survey of one school system.

Prerequisite: En. 401 or administrative experience.

En. 403.—The Problem-Project Method. 3 hours. 3 credits NORMAN.

The laws of learning, lesson-planning, thinking, questioning, the problem-project method, the socialized recitation, democracy in the classroom as a preparation for democracy in life.

En. 404.—History and Philosophy of Education. 3 hours. 3 credits.

NORMAN.

Standards in education, past and present; the development and present meaning of the concept of culture, humanism, utility, growth, mental discipline, activity leading to further activity, education according to nature, the significance of child life in education.

Textbook: Dewey, *Democracy and Education*.

Required of seniors who expect to be principals.

En. 406.—Elementary School Administration. 3 hours. 3 credits.

FULK.

The problems that usually confront the elementary school principal will be stressed in this course.

This course or En. 408 is required of seniors who expect to be principals.

En. 408.—High School Administration. 3 hours. 3 credits.

This course is designed to study the practical management and administration of the modern high school. Students may choose between En. 406 or En. 408.

This course or En. 406 is required of seniors who expect to be principals.

En. 409-410.—Supervised Teaching of Vocational Agriculture. 3 hours. 6 credits. GARRIS.

Under supervision, students observe the teaching and all other duties of the agricultural instructor at Alachua during the first semester; during the second semester each student participates in all of these activities, taking the place of the regular instructor.

En. 415.—Supervised Teaching in English. 2 hours. 2 credits.

Practice in conducting recitations under close supervision. Lesson plans will be required for all recitations, and the manner of teaching will be subject to criticism.

En. 425.—Supervised Teaching in Foreign Languages. 2 hours. 2 credits. COOPER.

En. 435.—Supervised Teaching in History. 2 hours. 2 credits. SMITH.

En. 455.—Supervised Teaching in the Sciences. 2 hours. 2 credits. SMITH.

En. 465.—Supervised Teaching in Mathematics. 2 hours. 2 credits. CRAGO.

En. 471.—Physical Education, Its Place in the Curriculum. 2 hours. 2 credits. SALT.

Prerequisites: En. 101, 103, 203.

Not open to major students in physical education nor to those having credit for HPI. 215-216 or HPI. 341.

En. 475.—Supervised Teaching in Health and Physical Education. 5 hours. 3 credits. SALT.

En. 477.—Supervised Teaching in Manual Arts. 2 hours. 2 credits.

Prerequisite for all courses in Supervised Teaching: a general honor point average of 1; an honor point average of 1.5 in the subject to be taught; an honor point average of 1 in courses in Education; credit for twelve semester hours of work in the subject to be taught; satisfactory completion of courses in Educational Psychology and materials and methods courses in the subject to be taught. Application must be made to the Director in charge before the beginning of the semester in which the practice teaching is to be done. The College of Education reserves the right to reject applications from students with marked defects in character, personality, or physique. Letters of inquiry should be directed to Dr. A. R. Mead, Peabody Hall, University of Florida.

GRADUATE COURSES

En. 501.—The Elementary School Curriculum. 3 hours. 3 credits. COOPER.

An intensive study of the development and present content of the elementary school curriculum, including the kindergarten; the selection and evaluation of material.

En. 503.—Seminar in Educational Measurements. 2 hours. 2 credits.

CRAGO.

Students will be guided in the investigation of educational problems involving measurement and diagnostic and remedial measures. The course is primarily for graduate students with experience in residence or in the field.

Fee: \$1.50.

En. 504.—The School Survey. 3 hours. 3 credits. FULK.

En. 505.—The Organization and Administration of Extra-Curricular Activities in Junior and Senior High Schools. 3 hours. 3 credits.

This course deals with constructive school policies which have to do with student life in the development of initiative, leadership, cooperation, and other desirable traits of character. Special study is made of the pupil programs existing in Florida high schools.

Not offered in 1932-33.

En. 506.—Methods of Teaching Farm-Shop Work. 2 hours. 2 credits.

GARRIS.

The selection and organization of subject matter, the selection of equipment, and the methods of teaching farm-shop jobs.

Offered during the Summer Session and as demands arise.

En. 507.—Seminar in Educational Psychology. 3 hours. 3 credits.

CRAGO.

Students will be guided in the investigation of problems in directed learning, individual differences and adjustment of problem children. Primarily for graduate students with experience in residence or in the field.

En. 508.—Democracy and Education Seminar. 3 hours. 3 credits.

NORMAN.

The nature of experience, the nature of institutions, the social inheritance, the individual, society, socialization, social control, dynamic and static societies, education its own end.

En. 509.—Problems in the Administration of a School System. 3 hours. 3 credits. FULK.

Problems selected to meet individual needs. Each student selects some problem for special study and presents the results of his study in the form of a thesis.

Prerequisite: En. 401 or its equivalent or administrative experience.

Offered in the Summer Session.

En. 510.—The History of Education. 3 hours. 3 credits. FULK.

An attempt to evaluate present-day education by tracing its dominant factors—the teacher, the student, the curriculum, the educational plant, the means of control and support—back to their beginnings; and to point out present tendencies and possible developments.

En. 511.—Methods and Materials in Vocational Agriculture. 3 hours. 3 credits. GARRIS.

The selection and organization of subject-matter from the vocational point of view.

Offered when demand arises and during the Summer Session.

En. 512.—Methods and Materials in Vocational Agriculture. 3 hours. 3 credits. GARRIS.

A continuation of En. 511.

En. 514.—Pre-Adolescent Psychology. 2 hours. 2 credits. LANCASTER.

This course will cover the years from nine to thirteen in the life of the child. The growth, health, habits, mental and moral characteristics of the child in this stage of its development will be discussed. The meaning and social importance of adolescent growth and interests will be brought out.

En. 518.—Special Problems in High School Organization and Administration. 3 hours. 3 credits. FULK.

An intensive study of specific problems in organizing and administering the modern high school, with special reference to Florida.

Prerequisite: En. 408.

En. 519.—High School Curriculum. 3 hours. 3 credits. FULK.

The problems of the curriculum of the high school in its organization; standards for the selection of the curriculum; factors to be considered—age of pupils, social standing, probable school life, probable vocation; traditional subjects and their possible variations; new subjects and their values, systems of organization, election, and prescription; problems of articulation with the elementary school, the college, the vocational school, and the community.

En. 521.—Business Administration of a School System. 3 hours. 3 credits. FULK.

Problems concerned with the procuring and spending of revenue; a thesis on a special problem.

Prerequisite: Wide administrative experience.

En. 527.—Research and Thesis Writing. 1 hour. No credit. FULK.

Designed primarily to help graduate students in Education in writing their theses. Required of all students majoring in Education.

En. 528.—Supervision. 3 hours. 3 credits. MEAD.

A graduate course in the supervision of instruction.

En. 541.—Control and Support of Public Education. 3 hours. 3 credits. FULK.

State, federal, and other agencies of control and support of education in the United States; world-history background; present tendencies and possible developments. Saturday class; planned primarily for teachers in service.

ELECTRICAL ENGINEERING

Administered in the College of Engineering

El. 201.—Elements of Electrical Engineering. 2 hours. 2 credits.

SMITH.

Lectures and recitations on fundamental principles of electrical engineering.

Prerequisite: One year of college physics.

El. 202.—Elements of Electrical Engineering. 2 hours. 2 credits.

BECK.

The general course covering methods of producing electrical energy, its distribution and application, direct and alternating current motors and generators, storage batteries, communication.

Prerequisite: 1 year of college physics, including electricity and magnetism.

El. 203.—Electrical Laboratory. 3 hours laboratory. 1 credit. SMITH.

Laboratory work to accompany El. 201.

Laboratory fee: \$3.

El. 204.—Dynamo Laboratory. 3 hours laboratory. 1 credit. SMITH and BECK.

Laboratory work to accompany El. 202.

Laboratory fee: \$3.

ENGLISH

Administered in the College of Arts and Sciences

Eh. 21.—Minimum Essentials of English. 3 hours. No credit. ROBERTSON and staff.

An elementary course in fundamentals of grammar, punctuation, and sentence construction, designed to meet the needs of freshmen deficient in preparatory English. For such deficient students this course is prerequisite to Eh. 101. Entry to the course will be determined by examinations to be given all entering freshmen during Freshman Week.

Required of all freshmen who, upon entering the University, are found deficient in minimum essentials of high school English.

Eh. 101-102.—Rhetoric and Composition. 3 hours. 6 credits. No credit toward a degree will be allowed until the entire 6 credits are earned. ROBERTSON and staff.

Designed to train students in methods of clear and forceful expression. Instruction is carried on simultaneously in formal rhetoric, in theme writing, and in corrective studies and exercises adapted to the needs of the individual student. In addition, all students are encouraged to read extensively for extra credit.

In order to receive credit for this course, the student is required to meet the following conditions: (1) He must pass a spelling test based on a list of 500 common words. (2) He must pass objective tests in the elements of capitalization, punctuation, grammar, and sentence structure. (These tests form a part of the final examination.) (3) He must have a passing average in composition, to secure which he must have learned to avoid certain especially gross errors.

Required of all freshmen.

Eh. 103-104.—Introduction to Literature. 3 hours. 6 credits. No credit toward a degree will be allowed until the entire 6 credits are earned. FARR and staff.

A survey of the literatures of the Western world from the beginnings to the Renaissance.

Required of freshmen in the course leading to the degree of Bachelor of Arts.

Eh. 201-202.—History of Literature to 1800. 3 hours. 6 credits. No credit toward a degree will be allowed until the entire 6 credits are earned. FARR and staff.

A basic course in the historical development of English literature.

Eh. 301-302.—Shakespeare and the Drama. 3 hours. 6 credits. No credit toward a degree will be allowed until the entire 6 credits are earned. FARR.

The English Drama from its beginning through Shakespeare. In the first semester the comedy will be stressed; in the second, the tragedy.

Eh. 303-304.—English Poetry of the Nineteenth Century. 3 hours. 6 credits. No credit toward a degree will be allowed until the entire 6 credits are earned. FARRIS.

Discussion of the roots of the Romantic Revival; the work of Wordsworth, Byron, Shelley, and Keats; poetry of the Victorian age.

Eh. 305.—Historical Grammar. 3 hours. 3 credits. FARR.

A course based on Lounsbury's *History of the English Language* designed to give the student some knowledge of the historical development of the English language, with a view especially of giving insight into modern English grammar.

Eh. 306.—English Grammar. 3 hours. 3 credits. ROBERTSON.

A study of modern English inflection and syntax. The course is designed to be of practical value to teachers of English, and is intended especially for students choosing Group C in the College of Education.

Prerequisite: Eh. 305.

Eh. 355-356.—Business Writing. 3 hours. 6 credits. No credit toward a degree will be allowed until Eh. 356 is completed. MOUNTS, SPIVEY.

Rapid review of basic principles of English composition; study of stylistic qualities demanded in the best modern business writing; extensive reading, analysis, and construction of the common types of business letters and reports. No credit will be allowed until the student has attained a definite objective standard in English minimum essentials.

Prerequisite: Eh. 101-102.

ENTOMOLOGY

Administered in the College of Agriculture

Ey. 302.—Economic Entomology. 2 hours, and 4 hours laboratory. 4 credits. CREIGHTON, DICKEY.

An introduction to applied entomology, based on the structure, classification, life histories; recognition, and control of the injurious insects of Florida.

Laboratory fee: \$2.

FRENCH

Administered in the College of Arts and Sciences

Fh. 21-22.—Elementary French. 3 hours. 6 credits. No credit toward a degree will be allowed until the entire 6 credits are earned. Elements of pronunciation and grammar—reading of simple prose.

For beginners.

Fh. 101-102.—Third and Fourth Semester French. 3 hours. 6 credits. No credit toward a degree will be allowed until the entire 6 credits are earned.

Second-year college French: reading of modern texts; grammar review; translation of simple English into French.

Prerequisite: Fh. 21-22 (or the equivalent, such as two years of high school French).

Science students may substitute Fh. 107-108 for this course.

Fh. 201-202.—Third-Year Reading. 3 hours. 6 credits. No credit for this subject will be given to those who have earned credit in Fh. 207 and 208. Credit will be allowed for the first semester without the second, but the second semester may not be taken for credit without the first except by permission of the head of the department upon satisfactory evidence of qualification. BRUNET.

A course in translation.

Prerequisite: Grade of C or D in **Fh. 102**. Students who earned a grade of A or B in **Fh. 102** should take **Fh. 207** and **208** instead of **Fh. 201** and **202**.

GERMAN

Administered in the College of Arts and Sciences

Gn. 21-22.—Elementary German. 3 hours. 6 credits. No credit toward a degree will be allowed until the entire 6 credits are earned. CROW and HAUPTMANN.

Pronunciation, grammar, written and oral exercises, memorizing of vocabularies, dictation, translation.

Gn. 101-102.—Second Year German. 3 hours. 6 credits. No credit toward a degree will be allowed until the entire 6 credits are earned. CROW.

Continuation of **Gn. 21-22**. Review of grammar, written and oral exercises, reading of modern texts.

Gn. 213-214.—Elementary Composition and Conversation. 3 hours. 6 credits. Credit will be allowed for the first semester without the second if the student so desires; however, the second semester cannot be taken without the first. CROW.

Drill on pronunciation, review of syntax, stylistics, writing of themes, practice in conversation.

Prerequisite: **Gn. 101-102**.

HEALTH AND PHYSICAL EDUCATION

HPl. 101.—Football. 10 hours. 2 credits. First half of first semester. STANLEY.

Lectures, discussions, demonstrations and practice on the field. Lectures are followed by actual demonstrations by the instructor, and students then put into practice the various fundamentals taught them. Individual play and its relation to team play is stressed. Students are thoroughly drilled in offensive and defensive tactics, each position on the team being analyzed. Fundamentals, such as falling on the ball correctly, blocking and tackling, and passing and kicking, receive special attention.

Fee: \$1.50.

HPl. 0107.—Personal Hygiene. 2 hours. 2 credits. SALT.

This course presents personal and general hygiene as a means for the improvement of living. It considers the meaning of health in terms of life values, the biologic approach for the study of health, the place of intelligent control in modern civilization, unscientific and irrational health proposals, and ways for improvement of health and prevention of disease.

HPL. 111.—Basketball. 10 hours. 2 credits. Second half first semester.

STANLEY.

Lectures, discussions and demonstrations on the basketball court. A complete study is made of the game of basketball from an offensive and defensive point of view. The play of the individual is stressed. Fundamentals such as passing, dribbling, shooting, stops and pivots, are given special emphasis. Analysis is made of the systems of play used by leading coaches of the country. Students are assigned positions in actual scrimmage and practice games, the practical work being stressed as much as the theoretical.

Fee: \$1.50.

HPL. 114.—Theory and Practice of Natural Activities. 4 hours. 2 credits. HASKELL.

This course includes the selection and presentation of some of the activities of the natural program in physical education.

Fee: \$1.50.

HPL. 201.—Football. 10 hours. 2 credits. First half first semester.

HOLSINGER.

Discussions, lectures, and demonstrations by students on the field. Course covers the technique of playing the various positions on the team, both offense and defense, under actual game conditions. A sequence of plays from standard formations is worked out in signal drills and actual scrimmages. Special emphasis is laid upon team play.

Prerequisite: HPL. 101.

HPL. 211-212.—Applied Anatomy and Physiology. 2 hours. 4 credits.

SALT.

This course considers human embryology, the cell, tissues, basis of and essential facts concerning the structure and the function of the skeletal, muscular, nervous, respiratory, digestive, reproductive, endocrine, excretory, and circulatory systems. Particular attention will be given to child growth and development. Applications to health and physical education will be one of the main objectives of this course.

HPL. 213-214.—Theory and Practice of Natural Activities. 4 hours. 4 credits. SALT and STANLEY.

A continuation of HPL. 114 with special emphasis placed upon handball, swimming, speedball, tennis, badminton, paddle ball, baseball, track, diamond ball, volley ball, soccer, field hockey, gator ball, and touch football.

Prerequisite: HPL. 114.

Fee: \$1.50 per semester.

HPL. 215-216.—History and Principles of Physical Education. 2 hours. 4 credits. SALT.

A study is made of the basis of physical education in the present organization of society in America; relations of physical education to education in general; standards for judging physical education practice; psychological, sociological, and hygienic guides in selection of material, the natural program of physical education, its objectives and its methods; evaluation of all types of physical education in terms of educational standards.

Prerequisite: HPL. 0107.

HPL. 251.—Boxing. 2 hours. 1 credit. Second half of first semester.

MINARDI.

Scientific boxing. Course includes position of on guard, footwork, how to step and duck, how to block or guard the different blows. Instruction given in all attacks from the simple left lead at head to counters and cross counters on head or body. Feints and shifts. Rules governing bouts, definition of a foul blow, judging of bouts.

HPI. 301.—Football. 2 hours. 1 credit. First half of first semester. BACHMAN.

A course in advanced theory dealing with the science and generalship of the game from the point of view of the coach, the psychology of the game, rules, and scouting. An intensive study is made of the strength and weaknesses of various systems of play as they are related to one another.

Prerequisite: HPI. 101-102.

HPI. 303.—Basketball. 2 hours. 1 credit. Second half of first semester. COWELL.

A continuation of HPI. 111, with special emphasis laid upon the game from the standpoint of the high school coach.

Prerequisite: HPI. 111.

HPI. 304.—Track. 3 hours. 2 credits. HIGGINS.

This course will present the coaching of the standard track and field events. In addition to techniques and procedures for development of individual performers, attention is given to placement of men in a team for effective results, and other aspects of team play and cooperation.

Prerequisite: HPI. 214.

HPI. 311-312.—Organization and Administration of Health and Physical Education. 4 hours. 8 credits. SALT.

The organization and administration of the school health and physical education program will be considered and discussed from the standpoint of the teacher, administrator, and the aims of general education.

Prerequisites: HPI. 211-212 and HPI. 215-216.

HPI. 313-314.—Theory and Practice of Natural Activities Applied. 3 hours. 4 credits. SALT and STANLEY.

A consideration of teaching techniques and testing devices from the viewpoint of the teacher with regard to the activities studied in HPI. 213-214. Practice in the various skills will constitute a major portion of the course.

Prerequisites: HPI. 213-214, and HPI. 215-216.

Fee: \$1.50 per semester.

HPI. 344.—Baseball. 4 hours. 2 credits. COWELL.

Lectures, discussions, and demonstrations on the practice field. A complete discussion of the rules and a study of the fundamentals as applied to each department of the game are offered. Individual and team play are correlated on the field so that a student becomes acquainted with the fundamentals of the game as applied to technique and strategy.

Prerequisite: HPI. 214.

HPI. 351.—Organization and Administration of the Intramural Program. 2 hours. 2 credits. HIGGINS.

This course will consider the aims and objectives underlying the subject of intra-scholastic and intra-collegiate athletics. Various types, methods, plans, arrangements, and officiating techniques will be discussed in the light of contemporary practice and from the viewpoint of the school director.

Prerequisite: HPI. 215-216.

HPI. 353 or 0353.—Practice in Conducting the Intramural Program. 3 hours. 1 credit. HIGGINS.

A laboratory course in which the student is assigned weekly duties by the instructor, varying all the way from work in the intramural office itself to officiating in regularly scheduled games of the department.

Corequisite: HPI. 351.

HISTORY

Administered in the College of Arts and Sciences

Hy. 101-102.—Europe During the Middle Ages. 3 hours. 6 credits.
No credit toward a degree will be allowed until the entire 6 credits are earned. LEAKE and staff.

A course in the history of Western Europe from 476 to the Renaissance and Reformation. Prerequisite to all other courses in History.

JOURNALISM

Administered in the College of Commerce and Journalism

Jm. 0316.—Agricultural News Writing. 3 hours. 3 credits. LOWRY.

A course in journalistic writing as applied to agricultural subjects. Special attention to writing technique. No previous study or experience in journalism required on the part of the student. Instruction in collecting and writing agricultural news and special articles for the press.

LATIN

Administered in the College of Arts and Sciences

Ln. 101.—Ovid. 3 hours. 3 credits. No credit toward a degree will be allowed until credit is earned in Ln. 102. ANDERSON.

Selections; review of grammar; prose composition; prosody.

Ln. 102.—Cicero or Livy. 3 hours. 3 credits. ANDERSON.

Cicero's *De Senectute* and *De Amicitia*, or selections from Livy.

Ln. 201.—Pliny. 3 hours. 3 credits. ANDERSON.

Selections from Pliny's letters.

Ln. 202.—Horace. 3 hours. 3 credits. ANDERSON.

Selections from the satires, epistles, odes and epodes, with a study of the Horatian metres.

Ln. 203-204.—Grammar and Prose Composition. 2 hours. 4 credits.

No credit toward a degree will be allowed until the entire 4 credits are earned. ANDERSON.

An intermediate course in prose composition in connection with a systematic study of Latin grammar.

Not offered in 1932-33.

MATHEMATICS

Administered in the College of Arts and Sciences

Ms. 85.—Plane Trigonometry and Logarithms. 3 hours. 3 credits except to those who present trigonometry for entrance credit. SIMPSON and staff.

The solution of the triangle; practical applications of logarithms; trigonometric analysis.

Textbook: Simpson, *Plane Trigonometry and Logarithms*.

Ms. 101.—College Algebra. 3 hours. 3 credits. SIMPSON and staff.

A study of the quadratic equation, proportion, progressions, the binomial theorem, functions, graphs, theory of equations, permutations, combinations, probability, and determinants.

Textbook: Harding and Mullins, *College Algebra*.

Prerequisite: Ms. 85.

Ms. 102.—Plane Analytic Geometry. 3 hours. 3 credits. SIMPSON and staff.

The algebraic study of the figures of geometry and the plane sections of a cone. Systems and transformation of coordinates.

Textbook: Curtis and Moulton, *Analytic Geometry*.

Prerequisite: Ms. 101.

Ms. 204.—Mathematics for Agricultural Education Students. 3 hours. 3 credits.

Practical problems in agricultural engineering, farm management, dairying, investments, statistics, and averages.

Textbook: Roe, Smith, Reeve, *Mathematics for Agriculture and Elementary Science*.

Ms. 251-252.—Differential and Integral Calculus. 3 hours. 6 credits.

No credit toward a degree will be allowed until the entire 6 credits have been earned. WILSON.

The study of a process known as differentiation, which, with its numerous and widely different applications, constitutes one of the most important practical and theoretical fields of mathematics. Integration, the inverse operation of differentiation, is used in the calculation of areas, volumes, moments of inertia, and many other problems.

Textbook: Granville, Smith, Longley, *The Elements of the Differential and Integral Calculus*.

Prerequisites: Ms. 101 or Ms. 152.

Ms. 331.—College Geometry. 3 hours. 3 credits. KOKOMOOR.

The use of elementary methods in the advanced study of the triangle and circle. Special emphasis on solving original exercises. Valuable to prospective high school geometry teachers.

Textbook: Altshiller-Court, *College Geometry*.

MECHANIC ARTS

Administered in the College of Engineering

Mc. 107-108.—Woodworking. 1 hour, 6 hours shop. 6 credits. ESHLEMAN.

Instruction and practice in the care and use of hand tools in working wood. Joinery. Wooden machine parts and machine work.

Shop fee: \$3.

Mc. 207-208.—Carpentry. 1 hour, and 6 hours shop. 6 credits. STRONG and staff.

Prerequisite: Mc. 107-108.

Shop fee: \$3.

Mc. 209-210.—Metal Work. 1 hour, and 3 hours shop. 4 credits. STRONG and staff.

Sheet metal work.

Prerequisite: Mc. 107-108.

Shop fee: \$3.

Mc. 211-212.—Forge and Foundry. 1 hour, and 4 hours shop. 4 credits. STRONG and staff.

Mc. 201 with advanced forge work and Mc. 202 with advanced foundry work.

Prerequisite: Mc. 209-210.

Shop fee: \$3.

- Mc. 301.—Machine Shop.** 1 hour, and 3 hours shop. 2 credits. **STRONG.**
 Study and practice of the methods of finishing and assembling machine parts.
 Class room and shop.
 Prerequisite: Junior Classification.
 Shop fee: \$5.
- Mc. 304.—Patternmaking.** 1 hour, and 3 hours drawing. 2 credits. **STRONG.**
 Study and practice of the principles underlying the design and construction of patterns and core boxes for machine parts and other articles of cast metal.
 Prerequisites: **Mc. 101** and **Mc. 202.**
 Shop fee: \$3.
- Mc. 307-308.—Cabinetwork.** 1 hour, and 6 hours shop. 6 credits. **STRONG** and staff.
 Prerequisite: **Mc. 207-208.**
 Shop fee: \$3.
- Mc. 405-406.—Cabinetwork.** 1 hour, and 6 hours shop. 6 credits. **STRONG** and staff.
 Advanced cabinetwork, including furniture.
 Prerequisite: **Mc. 307-308.**
 Shop fee: \$3.

MILITARY SCIENCE

For detailed information concerning Military Science, see the *Bulletin of the Division of Military Science and Tactics.*

- My. 103-104.—Freshman Field Artillery.** 2 hours theory and 3 hours practice. 4 credits. **LIEUTENANTS WILLIAMS** and **QUEKEMEYER.**
 The basic course: the National Defense Act and the R.O.T.C.; military courtesy and discipline; military hygiene and first aid; dismounted drills; field artillery instruction (cannoneers).
 Textbook: *W. D. Training Regulations.*
- My. 203-204.—Sophomore Field Artillery.** 2 hours theory and 3 hours practice. 4 credits. **CAPTAIN DONNOVIN.**
 Basic course: dismounted drill and ceremonies; dismounted field artillery instruction, including (1) fire control and instructions, (2) battery communications, and (3) care of animals; mounted field artillery instruction, including (1) equitation, (2) reconnaissance, (3) the field artillery driver, and (4) maneuvers limbered.
 Textbook: *W. D. Training Regulations.*

PHYSICAL EDUCATION

- Pl. 101-102.—Gymnastics.** 2 hours. 2 credits. **HASKELL** and staff.
 Instruction in free exercises for general development and muscular coordination. Elementary work on apparatus, emphasizing form, approach, and execution.
 Instruction and play in tennis, football, basketball, playground ball, track, and baseball.

PHYSICS

Administered in the College of Arts and Sciences

- Ps. 101-102.—Elementary Theory of Mechanics, Heat, Sound, Electricity and Light.** 3 recitations and 1 demonstration. 6 credits. Credit will be allowed for the first semester without the second; but the second semester cannot be taken without the first. **WILLIAMSON** in charge.
 A college course designed for the student who is not majoring in the sciences. Selected material will be treated with somewhat more emphasis on the historical development of the science and of scientific method.

Ps. 103-104.—Elementary Laboratory Physics. 3 hours laboratory and problems. 4 credits. Credit will be allowed for the first semester without the second; but the second may not be taken without the first. BLESS in charge.

A series of laboratory experiments to supplement Ps. 101-102, which should be taken by all students electing those courses.

Laboratory fee: \$2.25 each semester.

Ps. 111-112.—Elementary Theory of Mechanics, Heat, Sound, Electricity and Light. 4 hours. 6 credits. Credit will be allowed for the first semester without the second, if the student so desires; however, the second semester cannot be taken without the first. WILLIAMSON in charge.

A college course designed to meet the needs of the general science student.

Prerequisite: One year of college mathematics.

Ps. 115-116.—Elementary Laboratory Physics. 3 hours laboratory and problems. 4 credits. Credit will be allowed for the first semester without the second, if the student so desires; however, the second semester cannot be taken without the first. BLESS in charge.

A series of laboratory experiments in general physics. This course supplements

Ps. 111-112, which should be taken by all students electing those courses.

Laboratory fee: \$2.25 each semester.

POLITICAL SCIENCE

Administered in the College of Arts and Sciences

Pcl. 101.—American Government and Politics. 3 hours. 3 credits. No credit toward a degree will be allowed until credit in Pcl. 102 is earned. LEAKE and staff.

A study of the structure and functions of the Federal Government.

Pcl. 102.—State and Municipal Government. 3 hours. 3 credits. LEAKE and staff.

A study of state, county, and municipal government.

Pcl. 101-102 are prerequisites for all other courses in Political Science.

PSYCHOLOGY

Administered in the College of Arts and Sciences

Psy. 201.—General Psychology. 3 hours. 3 credits. HINCKLEY, WILLIAMS.

Facts and theories current in general psychological discussion; the sensations, sense organs, and function of the brain; the higher mental processes of attention, perception, memory, emotion, volition and the self.

Required of Education students.

SOCIOLOGY

Administered in the College of Arts and Sciences

Sy. 111.—Introduction to the Social Studies. 3 hours. 3 credits. BRISTOL and BEATY.

Problems connected with population changes and racial antagonisms will be given special consideration and traced back to earliest times. Early man; his increasing control over his environment; factors in early social development; the nature and scope of the social studies emerge from the whole discussion.

Sy. 112.—Introduction to the Social Studies. 3 hours. 3 credits. BEATY.

A continuation of Sy. 111 with special emphasis on the evolution of the various social institutions such as the family, the state, education, morals, religion, together with a consideration of the problems growing out of maladjustments connected with these institutions such as desertion, divorce, poverty, crime. Suggested methods of treatment and prevention.

Desirable prerequisite: Sy. 111.

Sy. 116.—Public Health and Sanitation. 3 hours. 3 credits. BRISTOL and special lecturers from the University and State Board of Health.

A general introduction to the field of public health with special emphasis on the sociological and economic aspects; historical approach; bacteriological and biological foundations; community hygiene and sanitation; communicable diseases and their control; nostrums and quackery; school, industrial, and community health problems.

Required of freshmen in Health and Physical Education.

Sy. 303.—Cultural Development of the United States. 3 hours. 3 credits. BRISTOL.

Indian cultures in the fifteenth century; contrasted cultures in the colonies with causal explanation; influence of the Industrial and Political Revolutions on social institutions and life; westward migrations and influence on personal, community, and national life; a sociological evaluation of slavery. Special emphasis will be given to a study of familial, intellectual, esthetic, philanthropic, ethical, and religious institutions and development, with outline treatment of the industrial and political.

Prerequisite: One of the following: Sy. 111, Hy. 101-102, or Es. 101.

Sy. 304.—Cultural Development of the United States. 3 hours. 3 credits. BRISTOL.

A continuation of the preceding course carrying the study from the Civil War to the present.

Prerequisite: Sy. 303.

Sy. 441.—Principles of Sociology. 3 hours. 3 credits. BRISTOL.

A brief study of the principles of social evolution, social organization, and social progress, with special emphasis on the science of social relations.

Prerequisite: Sy. 111 or consent of the instructor.

Sy. 443.—Race Problems. 3 hours. 3 credits. BEATY.

Origin and dispersion of races; the sociological concept of race; causes of racial antagonism; racial inequality; race mixtures; basis of racial adjustment.

Prerequisite: Sy. 111 or the equivalent.

SPANISH

Administered in the College of Arts and Sciences

Sh. 21-22.—Elementary. 3 hours. 6 credits. No credit toward a degree will be allowed until the entire 6 credits are earned.

Pronunciation, grammar, written and oral exercises, memorizing of vocabularies, dictation, translation.

Sh. 101-102.—Second Year. 3 hours. 6 credits. No credit toward a degree will be allowed until the entire 6 credits are earned.

Continuation of Sh. 21-22. Review of grammar, written and oral exercises, reading of modern texts.

Sh. 203-204.—Modern Spanish Literature. 3 hours. 6 credits. Either semester may be taken for credit without the other. HATHAWAY. Study of representative modern authors; study of literary backgrounds and trends.

Prerequisite: **Sh. 101-102.**

SPEECH

Administered in the College of Arts and Sciences

Sch. 201.—Public Speaking. 3 hours. 3 credits.

Presentation of the principles used in public speaking with considerable practice in the delivery of original speeches. Individual improvement is emphasized and encouraged by constructive criticism.

Prerequisite: **Eh. 101-102.**

Laboratory fee: \$1.50.

OTHER COURSES

For a description of courses not listed in this catalog, see the bulletin of the college in which the courses are offered.

THE UNIVERSITY CALENDAR

1932-1933

First Semester

- September 9, 10, Friday-Saturday.....Entrance examinations.
 September 12, Monday, 11:00 a.m.....1932-33 session begins.
 September 12-17, Monday-SaturdayFreshman Week.
 September 16-17, Friday-Saturday
 noonRegistration of upperclassmen.
 September 19, Monday 8:00 a.m.....Classes for 1932-33 session begin; late
 registration fee, \$5.
 September 24, Saturday 12:00 noon.....Last day for changing course without
 paying the \$2 fee.
 September 24, Saturday 12:00 noon.....Last day for registration for the first
 semester 1932-33.
 November 11, Friday.....Armistice Day; special exercises but
 classes are not suspended.
 November 23, Wednesday 5:00 p.m.....Thanksgiving recess begins.
 November 28, Monday 8:00 a.m.....Thanksgiving recess ends.
 December 17, Saturday 12:00 noon.....Christmas recess begins.

1933

- January 2, Monday 8:00 a.m.....Christmas recess ends.
 January 23, Monday 8:00 a.m.....Final examinations for the first se-
 mester begin.
 January 29, Sunday.....Baccalaureate Sermon.
 January 30, Monday 10:00 a.m.....Commencement Convocation.
 February 1, Wednesday.....Inter-Semester Day, a holiday.

Second Semester

- February 2-3, Thursday-Friday.....Registration for second semester; all
 students whose names begin with "A"
 through "M" register on Thursday; all
 others on Friday.
 February 4, Saturday 8:00 a.m.....Classes for second semester begin;
 change of course fee, \$2; late registra-
 tion fee, \$5.
 February 10, Friday 5:00 p.m.....Last day for registration for second
 semester.
 April 5, Wednesday 5:00 p.m.....Spring recess begins.
 April 10, Monday 8:00 a.m.....Spring recess ends.
 May 25, Thursday 8:00 a.m.....Final examinations begin.
 June 3-5, Saturday-Monday.....Commencement Exercises.

Entrance Examinations

Entrance examinations for admission to the various colleges of the University will be conducted for students whose credits do not meet the requirements.

Candidates wishing to take any of these examinations should notify the Registrar in writing, not later than September 1, January 15, or June 1.

For further information concerning these examinations see the *Bulletin of General Information*.

The University Record

of the

University of Florida

Bulletin of the

School of Architecture and Allied Arts

With Announcements for the Year

1932-33



Vol. XXVII, Series I No. 17 September 1, 1932

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The University Record comprises:

The Reports of the President and the Board of Control, the Bulletin of General Information, the annual announcements of the individual colleges of the University, announcements of special courses of instruction, and reports of the University Officers.

These bulletins will be sent gratuitously to all persons who apply for them. The applicant should specifically state which bulletin or what information is desired. Address

THE REGISTRAR
University of Florida
Gainesville, Florida

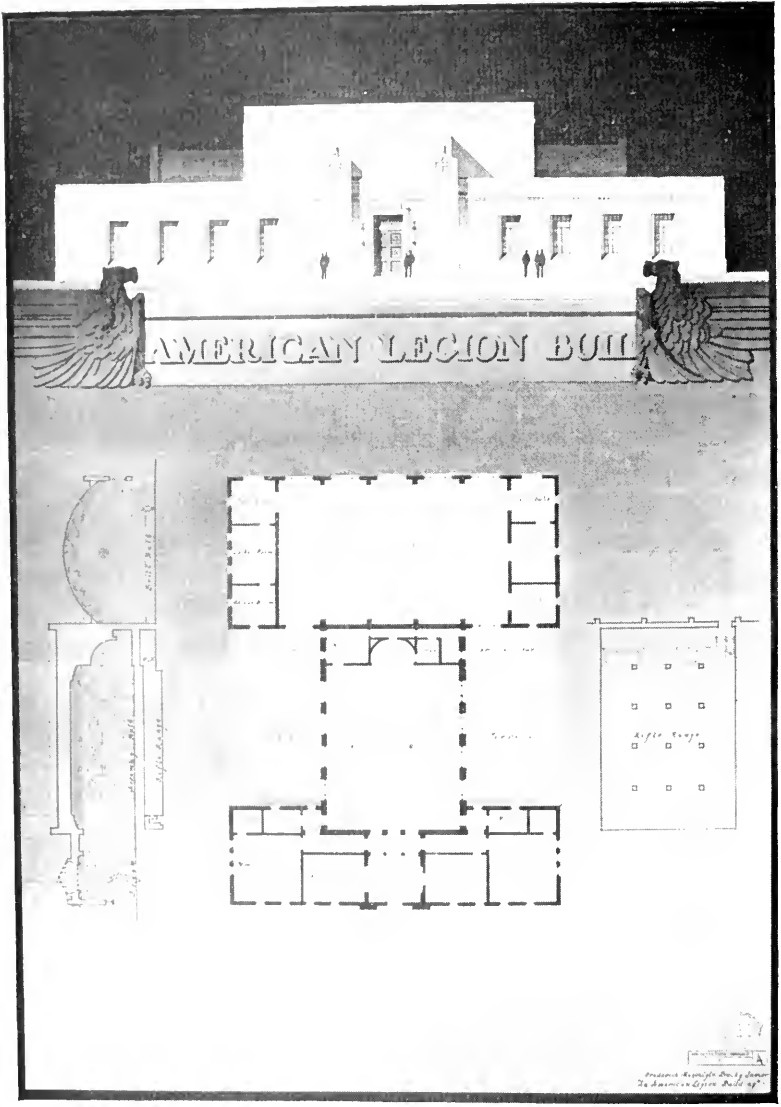
Research Publications.—Research publications will contain results of research work. Papers are published as separate monographs numbered in several series.

There is no free mailing list of these publications. Exchanges with institutions are arranged by the University Library. Correspondence concerning such exchanges should be addressed to the University Librarian, University of Florida, Gainesville, Florida. The issue and sale of all these publications is under the control of the Committee on Publications. Requests for individual copies, or for any other copies not included in institutional exchanges, should be addressed to the University Library, University of Florida, Gainesville, Florida.

The Committee on University Publications
University of Florida
Gainesville, Florida

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STUDENT'S WORK
AN AMERICAN LEGION BUILDING
F. M. BUCKY, JR., '33

SCHOOL OF ARCHITECTURE AND ALLIED ARTS

ADMINISTRATIVE OFFICERS

JOHN J. TIGERT, M.A. (ONOR.), Ed.D., D.C.L., LL.D., President of the University
JAMES MARION FARR, Ph.D., Vice-President, Professor of English Language
and Literature
RUDOLPH WEAVER, B.S., A.I.A., Director of the School of Architecture and
Allied Arts
HARLEY WILLARD CHANDLER, M.S., Registrar
DOROTHY FOSTER, B.A., Secretary

THE FACULTY

RUDOLPH WEAVER, B.S., A.I.A., Director, and Head Professor of Architecture
HENRY NORTON JUNE, B.S., A.I.A., Professor of Architecture
O. C. R. STAGEBERG, B.S. Arch., Assistant Professor of Architecture
FRED T. HANNAFORD, B.A., Instructor in Architecture
ROBERT CLOSSON SPENCER, B.M.E., F.A.I.A., Instructor in Architecture
CARL E. MITTELL, B.F.A., Instructor in Drawing and Painting
WILLIAM T. ARNETT, M.A. Arch., Graduate Assistant

OTHER DEPARTMENTS

A list of faculty members in other colleges which offer courses required by, but not taught in, the School of Architecture and Allied Arts can be found in the bulletins of the colleges which administer those courses.

GENERAL INFORMATION

HISTORY

The University authorities established a School of Architecture in the fall of 1925, offering for the first time in Florida a four-year curriculum leading to the degree of Bachelor of Science in Architecture. Following the successful operation of these architectural courses there was a growing demand for additional instruction in drawing, design, painting, and other related subjects. The scope of the work was therefore enlarged, and on May 15, 1929, the name was changed to The School of Architecture and Allied Arts, which was established as an independent division of instruction, with a Director responsible only to the President of the University. The curriculum in Painting leading to the degree of Bachelor of Fine Arts was first offered in September 1929. In 1932 the curriculum in Commercial Art leading to the degree of Bachelor of Commercial Art was added.

LOCATION

The University is located in the north central part of Florida, in the attractive city of Gainesville, distinctive for its avenues shaded by broad oaks and palms. The comfortable winter climate permits the holding of outdoor classes in drawing and painting the year round. The campus is skirted by the famous Dixie Highway. Adequate railroad service is provided by the Seaboard Air Line and the Atlantic Coast Line.

BUILDINGS AND EQUIPMENT

The School is located in Peabody Hall. The drafting rooms and studios occupy the entire third floor. The offices of the Architect to the State Board of Control are on the second floor, and cooperation between this office and the School is such that the student may at any time see the practical operation of an architect's office and observe the construction of the buildings which are constantly being erected on the campus.

The University Library contains a splendid selection of books related to Architecture and the Allied Arts. This library is augmented yearly by state appropriation, by private donations, and by the State Board of Architecture, which turns over to the School for library purposes all surplus funds derived from fees paid by those who take the examination to practice in Florida. This fund is helpful in building up a first-class research library not only for the use of students but for practicing architects whose personal libraries may be inadequate for their uses.

The collection of casts, lantern slides, photographs, models, and building materials is being constantly increased for instructional use in freehand drawing, history, theory, and construction.

OBJECTIVES

The School of Architecture and Allied Arts offers instruction in three fields of activity (architecture, painting, and commercial art) in which drawing and design are a large and fundamental part of each curriculum.

Architecture.—The courses in Architecture are for those students who desire to become architects or to enter some related field of endeavor in which beauty is combined with utility. The construction of buildings for many uses and their decoration, furnishing, and equipment has always been one of the principal activities of the human race, and the demand for these activities increases as civilization becomes more complex. This need requires a continuous supply of trained designers and craftsmen in the major art of building and the minor accessory arts. It is the aim of this course to prepare students to enter these fields as draftsmen, designers, inspectors and superintendents of construction, specification writers, teachers, et cetera, and ultimately as general practitioners or specialists in their chosen fields.

There is a four-year curriculum leading to the degree of Bachelor of Science in Architecture. A special course of study may be arranged for mature students, for which a certificate is given.

Painting.—The demand for courses in painting has been met by the introduction of a curriculum leading to the degree of Bachelor of Fine Arts. The object of this course is not only to develop the student's technical ability but also to give, within the limited time, as broad a cultural education as possible, which must, ultimately, be the foundation upon which he will build his professional career. Beginning with the fundamentals of drawing, design, and color, the courses develop into a highly specialized study of pictorial art, including mural decoration, figure, landscape, and portrait painting. The work of the senior year consists of executing paintings of a professional nature.

Commercial Art.—In all fields of commercial activity it has come to be a necessity that whatever the product, it must possess, to a high degree, the quality of beauty; and in bringing the products of industry to the attention of the public the best artistic talent is demanded. To prepare designers for this field of endeavor a four year curriculum is offered leading to the degree of Bachelor of Commercial Art. The first year's work is the same as in the curriculum in Painting, thus giving the beginner an opportunity to familiarize himself with the type of work and the objectives of both courses before deciding which he wishes to follow. In addition to the work in drawing, design, and color, a sound foundation is laid in the fundamentals of business practice. In the junior and senior years of this curriculum ample time is allowed for the student to elect additional courses in Painting, Business Administration, and Economics, or in other divisions of the University.

ARCHITECTURAL REGISTRATION

By action of the State Board of Architecture a student who receives the degree of Bachelor of Science in Architecture from the University of Florida will be exempt from examination in certain subjects when applying for a certificate of registration.

SUMMER SESSION

The University conducts a summer session which creates opportunities of various kinds, among which the following may be mentioned: (a) the student may take subjects which are not in the specialized curriculum; (b) he may

take certain subjects of the required curriculum, thereby lightening the load so that more time may be given to the work of the regular session, resulting in more thorough and scholarly results; (c) failure in regular session subjects can be made up; (d) and, for those who are prepared, work may be taken toward a master's degree. See the *Bulletin of The University Summer Session*.

RELATED SUBJECTS

Students in Allied Arts may find in the curricula of other colleges interesting and related subjects for electives, such as Landscape Design, offered in the College of Agriculture, and courses offered by the College of Commerce and Journalism, the College of Engineering, and other divisions of the University.

STUDENT WORK

All drawings prepared in the School or submitted for degrees, diplomas, or prizes become the property of the School, and the students register for courses and submit their work on this understanding. In practice, however, the School retains only a few of the best drawings for exhibition purposes—the drawings so honored may be lent to the student when he requires them for any special purpose.

Each student who completes a four-year course is required to make one representative piece of work in his particular medium and field. This work is dedicated to the School and may become a part of the permanent collection.

SPECIAL LECTURES

Prominent men from related fields of endeavor and from the various chapters of the American Institute of Architects and The Florida Association of Architects are invited to give lectures which are intended to acquaint the student with the best professional thought and with the culture of our times.

The semi-annual business meeting of the Florida Association of Architects, which is held in the rooms of the School, is open to the students. An opportunity is thus provided for the students to become acquainted with the problems which confront the practitioner, particularly in Florida, and to meet future employers.

LOAN FUNDS

The Florida Association of Architects has created a revolving loan fund of \$500.00 for the purpose of aiding needy students in Architecture who have proved themselves worthy. Applications should be made to the Director.

Scholarships, fellowships, and other loan funds available to students of the University are described in the *Bulletin of General Information*.

STUDENT ORGANIZATIONS

The Gargoyle Club. The Gargoyle Club has as its purposes the unification of the student group, the development of leadership, the encouragement of creative effort, and the application of the fine arts. Students registered in the School who make an honor point average of 1.5 are eligible for membership.

Honor societies and other student organizations are described in the *Bulletin of General Information*.

FEES

No special fees are charged students registered in the School of Architecture and Allied Arts. Laboratory fees for the various courses involving the use of the drafting rooms, studios, and equipment are specified in the description of the courses. For detailed information concerning general fees and living expenses, the prospective student should consult the *Bulletin of General Information*, pages 159-164.

GENERAL REGULATIONS

STUDENT RESPONSIBILITY

The student must assume full responsibility for registering for the proper courses and for fulfilling all requirements for his degree. The faculty will assist and advise, but the student must acquire the initiative and the responsibility for managing his own affairs.

The student should familiarize himself with the regulations of the University, which are contained in the *Bulletin of By-Laws*. He will be held responsible for the observance of these regulations as long as he is connected with the University.

General information concerning the University which prospective students in particular would desire to know is contained in the *Bulletin of General Information*.

MAXIMUM AND MINIMUM REGISTRATION

A student is not permitted at any time to carry less than 12 credit hours. Exception to this rule is made for mature students who are regularly employed and receive the approval of the Director.

Freshmen during their first semester of attendance at the University may not enroll in more work than is scheduled in the curriculum.

Exceptional students are, however, granted special privileges subsequent to the first semester of the freshman year and according to honor points earned. They may enroll in additional subjects according to the following maximum load schedule, which includes correspondence or extension work:

HONOR POINT AVERAGE FOR THE
PRECEDING SEMESTER

MAXIMUM LOAD PERMITTED

Less than 1	16 semester credit hours
1 up to, but not including 2.....	19 semester credit hours
2 up to, but not including 3.....	21 semester credit hours
3	24 semester credit hours

THE EXCEPTIONAL STUDENT

A student who has both the capacity and the ambition to rise above the average may, through scholarship, earn enough honor points each year to entitle him to enroll in such additional courses as he may elect. As an illustration, if a student should earn an average grade of B or more, with an honor point average of from 2 up to, but not including 3, he would be permitted to carry a schedule of additional subjects during each semester of his course as follows:

Freshman Year	.....1st Semester.....	None	2nd Semester.....	4 hrs.
Sophomore Year.....	" "	4 hrs.	" "	4 hrs.
Junior Year.....	" "	3 hrs.	" "	3 hrs.
Senior Year.....	" "	3 hrs.	" "	3 hrs.
Total Extra		10 hrs.	" "	14 hrs.

Such a student could therefore add to his four-year curriculum 24 additional credits in whatever subjects he might elect, for example:

An additional—or continued—foreign language.....	.....
English 203.—The Short Story.....	.....
English 204.—The English Essay.....	.....
A history, bacteriology, chemistry, biology, botany, economics, geology, additional physics, engineering or architecture, etc. ....	.....
TOTAL.....	
24 credits	

It is obvious that a student who could, and would, carry such a program would be better equipped to practice Architecture and more effectively build up his personal success, thereby becoming a more useful member of society.

Honor point privileges also permit a student to acquire credits toward an additional undergraduate degree.

ADMISSION

GENERAL REQUIREMENTS

For full information concerning the general requirements for admission to the University of Florida, the prospective student should consult the *Bulletin of General Information* for 1932-1933, pages 149-158.

SPECIAL REQUIREMENTS

In addition to meeting the general requirements for admission to the University, the candidate must meet the special requirements for the several courses offered by the School of Architecture and Allied Arts.

For admission to the course leading to the degree of Bachelor of Science in Architecture, the candidate must present the following units:

English	3
Algebra	1½
Plane Geometry	1
Solid Geometry	½
Trigonometry	½
History	1
Science	1
Foreign Language	2
Approved Electives	4½
	<hr/>
Total	15

If a candidate for admission presents one additional unit in history and one additional unit in science, or if he presents two additional units in either history or science, he need not present a foreign language.

In special cases a student may be registered for the freshman year with a condition in not more than two of the following one-half units of mathematics: advanced algebra, solid geometry, trigonometry. He will not be registered for the sophomore year until all entrance conditions have been removed and credit has been obtained in freshman mathematics (Ms. 101-102).

For admission to the course leading to the degree of Bachelor of Fine Arts, the candidate must present the following units:

English	3
Algebra	1
Plane Geometry	1
History	1
Science	1
Foreign Language	2
Approved Electives	6
	<hr/>
Total	15

If a candidate for admission presents one additional unit in history and one additional in science, or if he presents two additional units in either history or science he need not present a foreign language.

For admission to the course leading to the degree of Bachelor of Commercial Art, the candidate must present the following units:

English	3
Algebra	1½
Plane Geometry	1
Solid Geometry	1½
Trigonometry	1½
History	1
Science	1
Foreign Language	2
Approved Electives	4½
	<hr/>
Total	15

In special cases a student may be registered for the freshman year with a condition in not more than two of the following one-half units of mathematics; advanced algebra, solid geometry, trigonometry. He will not be registered for the sophomore year until all entrance conditions have been removed.

ADULT SPECIAL STUDENTS

A mature student twenty-one years of age or more may pursue a special two or three-year course of study, providing he can satisfy the Director that he is adequately prepared and has good reasons for desiring to pursue such a course of study. Special courses do not lead to a degree, but a certificate is given at the completion of either two or three years' work.

GRADUATE STUDY

The Graduate School offers the degree of Master of Arts in Architecture. Graduates of the University of Florida, or of other institutions of like rank, who have a satisfactory record, including the required foundation courses, are eligible for admittance to the Graduate School. For further information write to the Dean of the Graduate School.

THE CURRICULUM IN ARCHITECTURE

Leading to the Degree of Bachelor of Science in Architecture

First Semester		Second Semester	
Names of Courses	Credits	Names of Courses	Credits
Freshman Year			
Ae. 101—Architectural Design	3	Ae. 102—Architectural Design	3
Ae. 121—Freehand Drawing	2	Ae. 112—Elements of Beauty	1
Ae. 123—Geometrical Drawing	3	Ae. 122—Freehand Drawing	2
Eh. 101—Rhetoric and Composition.....	3	Ae. 124—Geometrical Drawing	2
Ms. 101—College Algebra	3	Eh. 102—Rhetoric and Composition....	3
My. 101—Infantry	2	Ms. 102—Plane Analytic Geometry....	3
Pl. 101—Gymnastics	1	My. 102—Infantry	2
		Pl. 102—Gymnastics	1
	17		*17
Sophomore Year			
Ae. 201—Architectural Design	3	Ae. 202—Architectural Design	3
Ae. 221—Freehand Drawing	2	Ae. 222—Freehand Drawing	2
Ae. 225—Elementary Water Color.....	2		
Ae. 227—Perspective	1	Ae. 232—History of Architecture.....	2
Ae. 231—History of Architecture.....	2	Ms. 0253—Calculus	5
Ps. 111—General Physics Lecture and Demonstration	3	Ps. 112—Gen. Physics Lecture and Demonstration	3
My. 201—Infantry	2	My. 202—Infantry	2
Elective	2		
	*17		*17
Junior Year			
Ae. 301—Architectural Design	4	Ae. 302—Architectural Design	4
Ae. 321—Freehand Drawing	2	Ae. 314—Theory of Composition	1
Ae. 331—History of Architecture.....	2	Ae. 226—Water Color	2
Ae. 351—Building Construction	3	Ae. 332—History of Architecture	2
Cl. 101—Surveying	2	Ae. 352—Building Construction	3
Ml. 315—Applied Mechanics	5	Cl. 308—Theory of Structures	2
		Ml. 316—Applied Mechanics	4
	*18		*18
Senior Year			
Ae. 401—Architectural Design	6	Ae. 402—Architectural Design	6
Ae. 435—Decorative Arts	1	Ae. 416—Professional Practice	2
Ae. 455—Working Drawings	3	Ae. 454—Concrete Design	3
		Ae. 464—Heating and Ventilation.....	1
Cl. 403—Structural Engineering	3	Ae. 466—Electric Lighting	1
Es. 201—Principles of Economics.....	3	Ae. 468—Plumbing	1
Elective	2	Cl. 404—Structural Engineering	4
	*18		*18

*Honor points earned determine maximum and minimum load permitted. See page 565 for explanation.

CURRICULUM IN PAINTING

Leading to the Degree of Bachelor of Fine Arts

First Semester		Second Semester	
Names of Courses	Credits	Names of Courses	Credits
Freshman Year			
Pg. 101—Pictorial Composition	2	Pg. 102—Pictorial Composition	2
Pg. 121—Freehand Drawing	4	Pg. 122—Freehand Drawing	4
Pg. 127—Lettering	1	Ae. 112—Elements of Beauty	1
Ae. 0228—Modeling	2	Pg. 124—Oil Painting Studio.....	2
Eh. 101—Rhetoric and Composition...	3	Eh. 102—Rhetoric and Composition...	3
Hy. 101—Europe During the Middle Ages	3	Hy. 102—Europe During the Middle Ages	3
My. 101—Infantry	2	My. 102—Infantry	2
Pl. 101—Gymnastics	1	Pl. 102—Gymnastics	1
	18		*18
Sophomore Year			
Pg. 201—Pictorial Composition	2	Pg. 202—Pictorial Composition	2
Pg. 221—Freehand Drawing	4	Pg. 222—Freehand Drawing	4
Pg. 223—Oil Painting Studio	4	Pg. 224—Oil Painting Studio	4
Ae. 227—Perspective	1	Pg. 232—History of Painting	2
Pg. 231—History of Painting.....	2	Pg. 234—Study of Ornament.....	1
Hy. 201—Modern European History...	3	Hy. 202—Modern European History...	3
My. 201—Infantry	2	My. 202—Infantry	2
	*18		*18
Junior Year			
Pg. 301—Pictorial Composition	4	Pg. 302—Pictorial Composition	4
Pg. 321—Freehand Drawing	4	Pg. 322—Freehand Drawing	4
Pg. 323—Oil Painting Studio	5	Pg. 324—Oil Painting Studio	5
Ae. 231—History of Architecture	2	Ae. 232—History of Architecture.....	2
Elective	3	Elective	3
	*18		*18
Senior Year			
Pg. 401—Pictorial Composition	5	Pg. 402—Pictorial Composition	5
Pg. 423—Oil Painting Studio	5	Pg. 424—Oil Painting Studio.....	5
Pg. 411—Aesthetics	1	Pg. 432—American Art History	2
Ae. 435—Decorative Arts	1	Elective	6
Elective	6		
	*18		*18

*Honor points earned determine maximum and minimum load permitted. See page 565 for explanation.

CURRICULUM IN COMMERCIAL ART

Leading to the Degree of Bachelor of Commercial Art

First Semester		Second Semester	
Names of Courses	Credits	Names of Courses	Credits
Freshman Year			
Pg. 101—Pictorial Composition	2	Pg. 102—Pictorial Composition	2
Pg. 121—Freehand Drawing	4	Pg. 122 Freehand Drawing	4
Pg. 127—Lettering	1	Ae. 112—Elements of Beauty	1
Ae. 0228—Modeling	2	Pg. 124—Oil Painting Studio	2
Eh. 101—Rhetoric and Composition	3	Eh. 102—Rhetoric and Composition	3
Hy. 101—Europe During the Middle Ages	3	Hy. 102—Europe During the Middle Ages	3
My. 101—Infantry	2	My. 102—Infantry	2
Pl. 101—Gymnastics	1	Pl. 102—Gymnastics	1
	18		*18
Sophomore Year			
Pg. 203—Poster Design	2	Pg. 204—Poster Design	2
Pg. 221—Freehand Drawing	4	Pr. 222—Freehand Drawing	4
Pg. 223C—Oil Painting Studio	3	Pg. 224C—Oil Painting Studio	3
Ae. 227—Perspective	1	Pg. 228—Methods of Reproduction	1
Ms. 107—Elementary Commercial Algebra	3	Ms. 108—Business Mathematics	3
Bs. 101E—Economic History of England	3	Bs. 102E—Economic History of United States	3
My. 201—Infantry	2	My. 202—Infantry	2
	*18		*18
Junior Year			
Ae. 225—Water Color	2	Ae. 226—Water Color	2
Pg. 321—Freehand Drawing	4	Pg. 322—Freehand Drawing	4
Pg. 305—Illustration	3	Pg. 306—Illustration	3
Bs. 103—Principles of Economic Geography	3	Bs. 104—Principles of Economic Geography	3
Bs. 201E—Principles of Economics	3	Bs. 202E—Principles of Economics	3
Approved Elective	3	Approved Elective	3
	*18		*18
Senior Year			
Eh. 203—The Short Story	3	Eh. 204—English Essay	3
Sch. 357—Business Speaking	3	Pg. 0411—Aesthetics	1
Bs. 211—Accounting	3	Bs. 212—Accounting	3
Bs. 433—Advertising	3	Bs. 434—Advertising Practice	3
Approved Elective	6	Thesis	2
	*18	Approved Elective	6
			*18

*Honor points earned determine maximum and minimum load permitted. See page 565 for explanation.

DEPARTMENTS OF INSTRUCTION

Subjects with odd numbers are given in the first semester and subjects with even numbers are given in the second semester unless the number begins with 0, in which case the reverse is true.

The number of hours given is the number of hours which the class meets per week.

The number of credits is the number of semester credit hours earned by each student who receives a passing grade (A, B, C, or D) when the subject is completed. Unless specifically stated credit may be obtained for one semester of a year course.

Subjects numbered 200 or above are not as a rule open to freshmen; subjects numbered 300 or above are not as a rule open to sophomores; subjects numbered 400 or above are not as a rule open to juniors; subjects numbered 500 or above are for graduate students.

The abbreviations used are wherever possible the first and last letter of the first word of the department name. Occasionally, a third central letter is demanded to distinguish between departments where first and last letters are identical.

ARCHITECTURE

Ae. 101-102.—Architectural Design. 9 hours drafting, with occasional lectures. 6 credits. **WEAVER** assisted by **ARNETT**.

Beginning course in Architecture. Small problems in design, using only the wall, roof, pier, and beam as structural elements. Simple decorative elements. Lectures on composition. Larger problems are considered in the second semester, with some emphasis on research, draftsmanship, and rendering.

Laboratory fee: \$1.00 per semester.

Ae. 112.—Elements of Beauty. 1 hour. 1 credit. **WEAVER**.

A discussion of the principles of beauty as manifested in nature. Lectures on the use of these principles in Architecture; special lectures on the drama, poetry, music, and other arts; assigned reading and reports.

Ae. 121-122.—Freehand Drawing. 6 hours drawing. 4 credits. **STAGEBERG**.

Charcoal drawing from casts and still life.

Laboratory fee: \$1.00 per semester.

Ae. 123.—Geometrical Drawing. 1 hour, and 6 hours drafting. 3 credits. **JUNE**.

Descriptive Geometry with architectural problems involving the principles studied. Drafting technique.

Ae. 124.—Geometrical Drawing. 6 hours drafting. 2 credits. **JUNE**.

A continuation of Ae. 123. Shades and shadows; additional problems in projection; elementary perspective.

Ae. 201.—Architectural Design. 9 hours drafting. 3 credits. **STAGEBERG**.

A continuation of Ae. 102. Design of minor buildings in plan, elevation, section, and details.

Prerequisite: **Ae. 102**.

Laboratory fee: \$2.00.

Ae. 202.—Architectural Design. 9 hours drafting. 3 credits. STAGEBERG.

A continuation of Ae. 201. Planning and composition, research, and draftsmanship.

Prerequisite: Ae. 201.

Laboratory fee: \$2.00.

Ae. 221-222.—Freehand Drawing. 6 hours drawing. 4 credits. SPENCER.

Outdoor sketching.

Prerequisite: Ae. 122.

Laboratory fee: \$1.00 per semester.

Ae. 225-226.—Elementary Water Color. 6 hours studio, with occasional lectures. 4 credits. SPENCER and STAGEBERG.

Color theory and methods of applying water color. Still life and simple landscapes.

Architectural rendering for Architecture students.

Prerequisite: Ae. 122.

Laboratory fee: \$1.00.

Ae. 227.—Perspective. 3 hours drafting. 1 credit. STAGEBERG.

A discussion of the phenomena of perspective and methods of representing distance, followed by drawing architectural perspectives.

Prerequisites: Ae. 102 and Ae. 124.

Ae. 228.—Modeling. 6 hours studio. 2 credits. MITTELL.

Modeling architectural forms in clay. Original problems in mass composition. Required of Freshmen in Painting and Commercial Art. Elective for architectural students.

Laboratory fee: \$1.00.

Ae. 231-232.—History of Architecture. 2 hours. 4 credits. STAGEBERG.

Egyptian, Assyrian, Persian, Greek, Roman, Early Christian, and Byzantine architecture. Historical and other influences. Materials and methods of construction. Lectures, assigned readings, and drawings.

Ae. 231 prerequisite to Ae. 232.

Ae. 301-302.—Architectural Design. 12 hours drafting. 8 credits. STAGEBERG.

A continuation of Ae. 202. Plans, elevations, sections; rendered studies; sketch problems.

Prerequisite: Ae. 202.

Laboratory fee: \$2.00 per semester.

Ae. 314.—Theory of Composition. 1 hour. 1 credit. WEAVER.

Lectures on architectural composition with assigned reading and required sketches.

Prerequisite: Junior standing.

Ae. 321.—Freehand Drawing. 6 hours studio. 2 credits. STAGEBERG.

Life. Charcoal sketching alternating with quick pencil sketching from action poses. Careful charcoal figure studies.

Prerequisite: Ae. 222.

Laboratory fee: \$1.00.

Ae. 331-332.—History of Architecture. 2 hours. 4 credits. JUNE.

Romanesque, Gothic, Renaissance, and Modern Architecture. Reference reading and sketching.

Prerequisite: Ae. 232.

Ae. 351-352.—Building Construction. 2 hours, and 3 hours drafting. 6 credits. SPENCER.

The nature and properties of building materials. Methods of construction.

Prerequisites: Ae. 124 and Ae. 202.

Ae. 401-402.—Architectural Design. 18 hours drafting. 12 credits.

JUNE.

Advanced Architectural Design covering the more complex problems of planning and composition.

Prerequisite: Ae. 302.

Laboratory fee: \$4.00 per semester.

Ae. 416.—Professional Practice. 2 hours. 2 credits. WEAVER.

Ethics, methods of modern practice, law, and specifications. Lectures, conferences, and written work.

Prerequisite: Senior standing.

Ae. 435.—Decorative Arts. 1 hour. 1 credit. SPENCER.

A brief study of the decorative arts allied with Architecture. Lectures with assigned reading and research plates.

Prerequisites: Ae. 226 and Ae. 332.

Ae. 454.—Concrete Design. 3 hours. 3 credits. HANNAFORD.

Reinforced concrete design of typical architectural problems.

Prerequisites: Cl. 308, Ml. 315, and Ae. 352.

Ae. 455.—Working Drawings. 9 hours drafting. 3 credits. JUNE.

The preparation of scale drawings and details as issued to the builder in actual practice.

Prerequisite: Ae. 352.

Ae. 464.—Heating and Ventilating. 3 hours, first third of semester. 1 credit. YEATON.

Lectures and exercises in architectural problems.

Prerequisite: Ae. 455.

Ae. 466.—Electric Lighting. 3 hours, second third of semester. 1 credit. WEIL.

Illumination and wiring of buildings. Lectures and problems.

Prerequisite: Ae. 455.

Ae. 468.—Plumbing. 3 hours, last third of semester. 1 credit. JUNE.

Hot and cold water supply; drainage and sewage disposal; plumbing methods, materials, and fixtures.

Prerequisite: Ae. 455.

GRADUATE COURSES

Ae. 501-502.—Architectural Design

Ae. 521-522.—Advanced Freehand Drawing

Ae. 525-526.—Advanced Water Color

Ae. 531-532.—Historical Research

Ae. 551-552.—Building Construction

BUSINESS ADMINISTRATION

Administered in the College of Commerce and Journalism

Bs. 101E.—Economic History of England. 3 hours. 3 credits.

MATHERLY, DYKMAN, SCAGLIONE, HURST, CHACE.

Survey and interpretation, with brief reference to France and Germany. The origin and development of economic institutions, the manor, industrial revolution, commerce, transport, labor, agriculture, finance, effects on social and political development and on development in the United States.

Bs. 102E.—Economic History of the United States. 3 hours. 3 credits.

MATHERLY, DYKMAN, SCAGLIONE, HURST, CHACE.

Interpretative survey of industrial development; consideration of the development of industry, agriculture, trade and transportation, labor, banking, finance, population; the influence of economic development on political and social development, and of foreign economic development on the United States.

Bs. 103.—Principles of Economic Geography. 3 hours. 3 credits.

ATWOOD, DIETRICH, HICKS.

A study of the relations of physical and economic conditions to the production and trade in selected important agricultural, forest, mineral, and manufactured products of the world; emphasis will be placed on the regional aspect of the commodities and on the natural economic and social factors which affect the adjustments that man has made in various regions of the world in order to make a living.

Bs. 104.—Principles of Economic Geography. 3 hours. 3 credits.

ATWOOD, DIETRICH, HICKS.

A continuation of the work in Bs. 103; special emphasis being given to the adjustments that man has made to the natural economic and social factors and the resulting interdependence of the great producing and consuming regions of the world. Special attention will be given to the industrial and commercial development of the United States in relation to the rest of the world.

Bs. 201E-202E or 0202E-0201E.—Principles of Economics. 3 hours. 6 credits. MATHERLY, ELDRIDGE, M. D. ANDERSON, BIGHAM, CAMPBELL, HICKS.

An analysis of production, distribution, and consumption. Attention is devoted to the principles governing value and market price with a brief introduction to money, banking and credit, industrial combinations, transportation and communication, labor problems, and economic reform.

Bs. 211-212 or 0212-0211.—Principles of Accounting. 2 hours, 2 hours laboratory. 6 credits. No credit toward a degree will be allowed until the entire 6 credits are earned. GRAY, NUNEZ.

Lectures, problems, and laboratory practice. An introductory study of the underlying principles of double entry records; basic types of records and reports; accounting procedure and technique; the outstanding features of partnerships and corporations; the form and content of the balance sheet and the statement of profit and loss.

Bs. 433.—Advertising. 3 hours. 3 credits. WILSON.

A study of the history and economics of advertising. Attention is also devoted to the types of advertising and their adaptation to the various lines of business, to the relative values of various advertising media, to the psychological principles underlying advertising, and to the administrative control of advertising expenditures.

Prerequisite: Bs. 201E-202E.

Bs. 434.—Advertising Practice. 3 hours. 3 credits. WILSON.

The technique and practice of advertising. Consideration of the mechanics of advertising, types of advertising copy, theories of literary style as applied to copy writing, advertising policies, and methods of testing the effectiveness of advertising activities.

Prerequisite: Bs. 433.

CIVIL ENGINEERING

Administered in the College of Engineering

CL. 101 or 0101.—Surveying. 1 hour, and 3 hours laboratory. 2 credits. REED.

Recitations on the use of chain, compass, transit, and level; determination of areas, and instrumental adjustments. Field work in chaining, leveling, compass and transit surveys. Drawing-room work in calculations from field notes, and map-drawing.

Prerequisite: Trigonometry.

Laboratory fee: \$3.00.

Cl. 308.—Theory of Structures. 1 hour, and 3 hours drawing-room work. 2 credits. REED.

Recitations and drawing room exercises in the computation of forces; the plotting of diagrams in elementary graphics and roof-truss; design of a roof-truss.

Cl. 403-404.—Structural Engineering. First semester: 2 hours, and 3 hours drawing-room work; second semester: 2 hours, and 6 hours drawing-room work. 7 credits (divided 3-4 for students in Architecture). REED.

Recitations and drawing room work in the graphic analysis of girders and bridge trusses. Theory and design of wooden and steel roof trusses; foundations. Theory and computations of stresses in various types of bridges and buildings. Drawing-room design.

Prerequisites: **ML. 315, ML. 316, and Cl. 308.**

ENGLISH

Administered in the College of Arts and Sciences

Eh. 21.—Minimum Essentials of English. 3 hours. No credit. ROBERTSON and staff.

An elementary course in fundamentals of grammar, punctuation, and sentence construction, designed to meet the needs of freshmen deficient in preparatory English. For such deficient students this course is prerequisite to English 101. Entry to the course will be determined by examinations to be given all entering freshmen during Freshman Week.

Required of all freshmen who, upon entering the University, are found deficient in minimum essentials of high school English.

Eh. 101-102.—Rhetoric and Composition. 3 hours. 6 credits. No credit toward a degree will be allowed until the entire 6 credits are earned. ROBERTSON and staff.

Designed to train students in methods of clear and forceful expression. Instruction is carried on simultaneously in formal rhetoric, in theme writing, and in corrective studies and exercises adapted to the needs of the individual student. In addition, all students are encouraged to read extensively for extra credit.

In order to receive credit for this course, the student is required to meet the following conditions: (1) He must pass a spelling test based on a list of 500 common words. (2) He must pass objective tests in the elements of capitalization, punctuation, grammar, and sentence structure. (These tests form a part of the final examination.) (3) He must have a passing average in composition, to secure which he must have learned to avoid certain especially gross errors.

Required of all freshmen.

Eh. 203.—The Short Story. 3 hours. 3 credits. FARRIS.

Narrative practice in the anecdote and tale, with particular attention to the technique and development of the short story.

Prerequisite: **Eh. 101-102.**

Eh. 204.—Exposition. 3 hours. 3 credits. FARRIS.

A course in the study and application of the fundamental principles involved in expository thought organization and expression, working toward the student's production of such types as the criticism, the essay, the biography, etc.

Prerequisite: **Eh. 101-102.**

HISTORY

Administered in the College of Arts and Sciences

Hy. 101-102.—Europe During the Middle Ages. 3 hours. 6 credits.
No credit toward a degree will be allowed until the entire 6 credits are earned. LEAKE and staff.

A course in the history of Western Europe from 476 to the Renaissance and Reformation.

Required of all freshmen in the course leading to the degree of Bachelor of Fine Arts or Bachelor of Commercial Art.

Hy. 201-202.—Modern European History. 3 hours. 6 credits. No credit will be allowed until the entire 6 credits are earned. LEAKE.

First semester: characteristic features of the Old Regime, the French Revolutionary and the Napoleonic Periods, and the development of Europe up to 1856. Second semester: history of Europe from the Congress of Paris to the Congress of Versailles.

MATHEMATICS

Administered in the College of Arts and Sciences

Ms. 21.—Fundamentals of Secondary Mathematics. 3 hours. No credit. SIMPSON and staff.

A review course for those who are clearly unprepared to do successful work in college mathematics. Entry to the course will be determined by examinations to be given all entering freshmen during the second week.

Ms. 85.—Plane Trigonometry and Logarithms. 3 hours. 3 credits except to those who present trigonometry for entrance credit. SIMPSON and staff.

The solution of the triangle; practical applications of logarithms; trigonometric analysis.

Ms. 101.—College Algebra. 3 hours. 3 credits. SIMPSON and staff.

A study of the quadratic equation, proportion, progressions, the binomial theorem, functions, graphs, theory of equations, permutations, combinations, probability, and determinants.

Prerequisite: Ms. 85.

Ms. 102.—Plane Analytic Geometry. 3 hours. 3 credits. SIMPSON and staff.

The algebraic study of the figures of geometry and the plane sections of a cone. Systems and transformation of coordinates.

Prerequisite: Ms. 101.

Ms. 107.—Elementary Commercial Algebra. 3 hours. 3 credits. SIMPSON and staff.

Elementary algebraic notions fundamental to the study of mathematical problems arising in business and finance.

Ms. 108.—Business Mathematics. 3 hours. 3 credits. SIMPSON and staff.

Modern mathematical treatment of the problems of banking and business. Derivation and application of numerous formulas of importance in the financial world.

Prerequisite: Ms. 101 or Ms. 107.

Ms. 0253.—Calculus, Differential and Integral. 5 hours. 5 credits. SIMPSON and staff.

Special course for Architectural students.

Prerequisites: Ms. 101, Ms. 102.

MECHANICAL ENGINEERING

Administered in the College of Engineering

ME. 315-316.—Applied Mechanics. 4 hours, and two hours laboratory. 9 credits, divided 5-4. YEATON.

(a) Static, embracing the resolution of forces and moments; equilibrium as applied to trusses, machines, etc., centers of gravity and moments of inertia of areas. (b) Mechanics of materials; stresses and deformations in beams, columns, pipes, machine and structural parts, with various methods of loading.

Prerequisite: **MS. 0253.**

Laboratory fee: \$1.00 per semester.

PAINTING

Pg. 101-102.—Pictorial Composition. 2 hours criticism. 4 credits. MITTELL.

Design is introduced through the study of posters, advertising material, stained glass windows, mosaics, etc. Problems are assigned and criticised at regular intervals.

Pg. 121-122.—Freehand Drawing. 12 hours. 8 credits. STAGEBERG.

Charcoal drawing from casts.

Laboratory fee: \$1.00 per semester.

Pg. 124.—Oil Painting. 6 hours studio. 2 credits. MITTELL.

Simple still life subjects in full color. Theory of color and technique.

Laboratory fee: \$1.00.

Pg. 127.—Lettering. 1 hour criticism. 1 credit. SPENCER.

The proportion and composition of letters and a study of the alphabets.

Pg. 201-202.—Pictorial Composition. 2 hours criticism. 4 credits. MITTELL.

Continuation of Pg. 102. Compositions done in color. An introduction to mural decoration.

Prerequisite: **Pg. 102.**

Pg. 203-204.—Poster Design. 2 hours criticism. 4 credits. MITTELL.

Posters and advertising material. Technique of different media.

Prerequisite: **Pg. 102.**

Pg. 221-222.—Freehand Drawing. 12 hours studio. 8 credits. STAGEBERG.

Drawing from the antique and life.

Prerequisite: **Pg. 122.**

Laboratory fee: \$1.00 per semester.

Pg. 223-224.—Oil Painting. 12 hours studio. 8 credits. MITTELL.

Painting from still life and from the draped model.

Prerequisite: **Pg. 124.**

Laboratory fee: \$1.00 per semester.

Pg. 223C-224C.—Oil Painting. 9 hours studio. 6 credits. MITTELL.

Painting from still life and from the draped model.

For Commercial Art students.

Prerequisite: **Pg. 124.**

Laboratory fee: \$1.00 per semester.

Pg. 231-232.—History of Painting. 2 hours. 4 credits. MITTELL.

History of painting from the earliest times to the end of the nineteenth century.

Pg. 234.—Study of Ornament. 1 hour. 1 credit. MITTELL.

A study of the different periods of ornament. Research drawings required.

Pg. 252.—Methods of Reproduction. 1 hour. 1 credit. MITTELL.

Processes of duplicating graphic material, such as block printing, etching, lithography, etc.

- Pg. 301-302.—Pictorial Composition.** 2 hours criticism. 10 hours preparation. 8 credits. MITTELL.
Problems in mural decoration.
Prerequisite: Pg. 202.
- Pg. 305-306.—Illustration.** 3 hours criticism. 6 credits. MITTELL.
Advanced commercial design. Magazine and book illustration.
Prerequisite: Pg. 204.
- Pg. 321-322.—Freehand Drawing.** 12 hours studio. 8 credits. STAGEBERG.
Charcoal drawing from life.
Prerequisite: Pg. 222.
Laboratory fee: \$1.00 per semester.
- Pg. 323-324.—Oil Painting.** 15 hours studio. 10 credits. MITTELL.
Oil painting from life.
Prerequisite: Pg. 224.
Laboratory fee: \$1.00 per semester.
- Pg. 401-402.—Pictorial Composition.** 9 hours studio. 2 hours lecture. 10 credits. MITTELL.
Painting of easel pictures and mural decorations.
Prerequisite: Pg. 302.
- Pg. 411.—Aesthetics.** 1 hour. 1 credit. MITTELL.
A study of the reciprocal relationship of the fine arts.
Prerequisite: Senior standing.
- Pg. 423-424.—Oil Painting.** 15 hours studio. 10 credits. MITTELL.
Oil painting from life.
Prerequisite: Pg. 324.
Laboratory fee: \$4.00 per semester.
- Pg. 432.—American Art History.** 2 hours. 2 credits. MITTELL.
Illustrated lectures. A brief history of the visual arts in America. Current art, today's artists, and the public demand discussed.
Prerequisite: Junior standing.
- Thesis.—2 credits.**
Each student shall present as a thesis a representative piece of work in his particular medium and field, which may become a part of the permanent collection.

PHYSICS

Administered in the College of Arts and Sciences

- Ps. 111-112.—Elementary Theory of Mechanics, Heat, Sound, Electricity, and Light.** 4 hours. 6 credits. Credit will be allowed for the first semester without the second, if the student so desires; however, the second semester cannot be taken without the first. WILLIAMSON in charge.
A college course designed to meet the needs of the general science student. Required of sophomore Architecture students.
Prerequisite: One year of college mathematics.

SPEECH

Administered in the College of Arts and Sciences

- Sch. 357.—Business Speaking.** 3 hours. 3 credits.
Reading of written reports; conduction of business conferences; analysis of speech composition; delivery of informational and argumentative talks.
Prerequisite: Eh. 101-102.

THE UNIVERSITY CALENDAR

1932-1933

First Semester

- September 9, 10, Friday-Saturday.....Entrance examinations.
 September 12, Monday, 11:00 a.m.....1932-33 session begins.
 September 12-17, Monday-SaturdayFreshman Week.
 September 16-17, Friday-Saturday
 noonRegistration of upperclassmen.
 September 19, Monday 8:00 a.m.....Classes for 1932-33 session begin; late
 registration fee, \$5.
 September 24, Saturday 12:00 noon.....Last day for changing course without
 paying the \$2 fee.
 September 24, Saturday 12:00 noon.....Last day for registration for the first
 semester 1932-33.
 November 11, Friday.....Armistice Day; special exercises but
 classes are not suspended.
 November 23, Wednesday 5:00 p.m.....Thanksgiving recess begins.
 November 28, Monday 8:00 a.m.....Thanksgiving recess ends.
 December 17, Saturday 12:00 noon.....Christmas recess begins.

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- January 2, Monday 8:00 a.m.....Christmas recess ends.
 January 23, Monday 8:00 a.m.....Final examinations for the first se-
 mester begin.
 January 29, Sunday.....Baccalaureate Sermon.
 January 30, Monday 10:00 a.m.....Commencement Convocation.
 February 1, Wednesday.....Inter-Semester Day, a holiday.

Second Semester

- February 2-3, Thursday-Friday.....Registration for second semester; all
 students whose names begin with "A"
 through "M" register on Thursday; all
 others on Friday.
 February 4, Saturday 8:00 a.m.....Classes for second semester begin;
 change of course fee, \$2; late registra-
 tion fee, \$5.
 February 10, Friday 5:00 p.m.....Last day for registration for second
 semester.
 April 5, Wednesday 5:00 p.m.....Spring recess begins.
 April 10, Monday 8:00 a.m.....Spring recess ends.
 May 25, Thursday 8:00 a.m.....Final examinations begin.
 June 3-5, Saturday-Monday.....Commencement Exercises.

Entrance Examinations

Entrance examinations for admission to the various colleges of the University will be conducted for students whose credits do not meet the requirements.

Candidates wishing to take any of these examinations should notify the Registrar in writing, not later than September 1, January 15, or June 1.

For further information concerning these examinations see the *Bulletin of General Information*.

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of the

University of Florida

Commencement Addresses

June, 1932



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The Reports of the President and the Board of Control, the Bulletin of General Information, the annual announcements of the individual colleges of the University, announcements of special courses of instruction, and reports of the University Officers.

These bulletins will be sent gratuitously to all persons who apply for them. The applicant should specifically state which bulletin or what information is desired. Address

THE REGISTRAR
University of Florida
Gainesville, Florida

Research Publications.—Research publications will contain results of research work. Papers are published as separate monographs numbered in several series.

There is no free mailing list of these publications. Exchanges with institutions are arranged by the University Library. Correspondence concerning such exchanges should be addressed to the University Librarian, University of Florida, Gainesville, Florida. The issue and sale of all these publications is under the control of the Committee on Publications. Requests for individual copies, or for any other copies not included in institutional exchanges, should be addressed to the University Library, University of Florida, Gainesville, Florida.

The Committee on University Publications
University of Florida
Gainesville, Florida

COMMENCEMENT ADDRESS

by

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UNIVERSITY AUDITORIUM

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WE HAVE assembled here today to do honor to these young men and women, who have through a period of years so applied their energies and thought in an endeavor to educate themselves that the lawfully constituted school authorities of the State of Florida are now willing to confer upon them the appropriate degrees as a token of definite accomplishment. The conferring of the degrees in itself is of little intrinsic value, but that for which the degree is representative and emblematical is of untold value to the conferee and should be of like value to our state and society.

Providence has so created and constructed the universe that the whole scheme of things is one constant change. In other words, the law of life is a law of change. Every day, every month, and every year there is taking place a change in all things, in all matter and in all mind. This is true whether we would have it so or not. It is the immutable and unchangeable law of the universe.

Nothing does or can stand or remain *in statu quo*. This is true of each and every person; physically, mentally, or spiritually.

Physically, we are either getting stronger or weaker; we are either gaining greater capacity for work or we are becoming less capacitated.

Mentally, we are at all times becoming more proficient or less so—broadening our mental horizon or narrowing it, storing away in the warehouse of the brain those mental concepts which make for us greater mentality, or we are consuming our mentality without replenishing the supply.

Spiritually, we are at all times increasing our hold on spiritual things, or we are lessening our grip on the high and noble things in life.

In the creation of the world God established certain purposes. These are commonly called Nature's Purposes, or God's Purposes. These purposes are nature's laws.

Man has found it necessary for the well-being of society to supplement and elucidate nature's law or divine law with what we may term man-made law. These are rules of human conduct that are prescribed by our national Congress and our state legislature. The purpose of man-made laws is to aid society in carrying out and complying with the divine law.

To mould, develop, guide, direct and live such a life as is in tune and harmony with divine and man-made law, and not to transgress either, is to accomplish the most in life and to achieve the greatest real happiness.

In accordance with divine law, man comes into this world without his consent or knowledge. He has nothing to do with whether he be born with a yellow, black, or white skin; whether he be born in a civilized or a heathen country; whether he be born in a country of one kind of government or another; whether he be born in the frigid zone or in a sunny flowerland such as our great state of Florida.

Man, being born, then grows and develops and gains the power of control over himself, the power to will, exercise choice, and in a very large measure to control his destiny. And thus he plays and performs his part upon the great stage of things; this done, the curtain falls and his spirit passes on through the portals of a mansion from which no one returns.

Thus it is that in the span of life, from the time of birth until the fall of the curtain, lies the field of what we commonly and properly call the field of education. Education has been defined in various ways for all time, but if the generally accepted construction is correct, that happiness is the result or state of life where one is in harmony in purpose and in functioning, doing and acting with all law, both divine and man-made law, then, it seems to me, we may define education by reference to what constitutes an educated citizen.

We may define an educated citizen to be one who so lives, does, and acts that he thereby harmonizes his every effort, physically and mentally, as to get the most happiness out of life that his ability and surroundings permit.

Plato said in his *Republic*: "That every individual should be doing that in life for which he is best fitted; that education should be so organized as to discover for what the individual is best fitted and then to provide him with the proper and necessary training."

This theory and purpose of education so clearly and well defined by Plato some twenty-three centuries ago has been adopted by our great American democracy. Thanks to the democratic spirit of our American people, we do not now, never have, and I hope never will tolerate what is known as the caste system: that system by which one's place in society, in power, in office, in the trades, or in the professions is fixed by the accident of his birth. This caste system, which has existed in many countries from time immemorial, is repulsive to us and to our institutions. We do not believe it is right, just, or equitable for one, because of his birth in a certain station in life, to be thereby forever barred from reaching the highest eminence and position in life, if his life, character, ability, and conduct merit it.

There are few, if any, parents in the United States who are content that their children should continue in the station in life in which they were born. In the Far East, the Orient and some European countries, where this caste system prevails, it is otherwise. In the European systems of education, elementary education only is free, and this elementary education does not articulate or fit in with the secondary or higher education. In fact, in most of the countries of the caste system, the elementary education is so framed that when the boy or girl has taken what he can get from the free elementary schools, he is then fitted only for and allowed to take the vocational training of his class or kind or caste. In fact, he is educated and fitted only for the work and life of his caste and is studiously and carefully unfitted for the higher or secondary education; for, to fit him for this higher education would be to fit him for a standing or caste from which he is everlastingly barred by his having been born in the particular caste in which he must remain forever, regardless of his character, ability, or conduct as a citizen.

Our American democracy is practically the only great state in the world in which there exists an educational ladder, reaching from the kindergarten to the university, in which all parts, elementary, secondary, and higher education, and the professions and vocational training are so joined together and articulated that any boy or girl may freely pass from one to the other, regardless of his or her birth, so long as he or she has the ability to do the required work.

This democracy of ours, so far as education can accomplish it, aims to give to every boy and girl the opportunity to make the most of his native abilities and to assume that place in society, in the business world, in the professions, in the vocations, and in the political world *which his abilities justify*.

In other words, the state, by its educational system, does its utmost to establish and maintain equal opportunity for all. The boy born in poverty in the shack in the woods or on the mountainside is given the same opportunity as the boy born in luxury in the brown stone mansion in the city, to enjoy and assume the position to which his ability justifies—even to being president of our great country, or the chief justice of the highest court of our land.

You, who are receiving degrees here today, have enjoyed the blessings of our democratic educational school system. The State of Florida has been kind, generous, hospitable, and even charitable to you in furnishing you advantages that were not dreamed of a quarter of a century ago. The State has been generous to a fault in using its tax money to provide these ample, commodious, and modern university buildings and equipment and has furnished you the most highly trained instructors obtainable. Laboratory equipment and libraries have been furnished you whereby the door was open to you to the storehouse of knowledge as it has been gathered and preserved from the beginning of history. The State has done this without stint to every need and even to the point of hardship and groaning on the part of the taxpayer. This has been done by the State, cheerfully and without complaint, to carry out the great democratic purpose of making the most out of all its citizens and to preserve to ourselves and future generations this great government of ours where life, liberty, and the pursuit of happiness are held to be sacred rights to all.

At this time, when what appears to be an abnormal economic condition is upon us and when some in high places and some supposedly great writers and thinkers are suggesting that our civilization is crumbling and our government is endangered, we should have no trouble in maintaining our hope and optimism in the future of our great democracy. I cannot believe, as I look into the faces of these graduates and see there reflected, finely educated citizens, thoughtful and serious minds and noble souls, that such men and women when added in number to those who are annually being graduated in similar state and denominational schools throughout the country, will ever allow the crumbling of our civilization or our government, where *liberty, justice, freedom, and equality* of opportunity are the corner stones upon which this great democracy was established.

You, my young friends, the graduates here today, have enjoyed every known advantage that the State's money can procure. All of this has been done for you, that you in turn, being thus equipped to assume the highest position to which your ability, effort, and character, will justify, will in return add to the credit, the honor, and renown of our great state and nation.

You, who are graduating today, have had some years of training—some years in the enjoyment of the educational facilities furnished you by the State. This period, constituting some considerable number of the years of your life, will, as you walk on down life's pathway, always be looked upon by you as

the happiest period of your life. It has been a period during which there has been unfolded to you the experience, wisdom, and thought of mankind from the beginning of the race.

Your mind at the outset was without form, without knowledge, and without those rules of guidance and direction which makes for the best in life. Day by day and hour by hour you have read, you have been instructed, you have been trained—the storehouse of knowledge accumulated during the ages has been opened to you and slowly but surely; and effectively you have grown, and developed into a rounded citizen to the extent that the lawfully constituted authorities of the State are now willing to award you the crown of approval of the State of Florida for your accomplishment.

My friends, since you have been up to this time most active in the pursuit of knowledge, since you have done your utmost to make yourselves worthy of your existence, since you have at all times exerted your every effort, and now that you are graduating, let me caution you that the period of achievement, worthy as it is, is not an end but is only a beginning, a good starting point. The entire life of every citizen, if properly lived, should be one continuous course of education.

Education is a life work; it is not simply a scholastic affair, but must be carried on with unceasing effort and unwearied patience until the Great Master bids us cease and introduces us into a new world where opportunity is forever unlimited.

Your growth and development in the future should be much more rapid, since you now have the tools and equipment with which to interpret the broader fields of learning and knowledge. This is a priceless asset, one of which the highwayman cannot rob you, one on which you need carry no insurance, an asset which cannot burn and one on which no taxes are levied.

I take it that each of you has scanned the great field of human endeavor and accomplishment, and inventoried your ability and situation in life and charted your life's course. Whatever the field you choose, continue to prepare and educate yourself for that work. Continue to store your batteries of knowledge and proficiency in your chosen work. You cannot afford to fail in this. This is not a day of mediocre men and women; it is the day of the best educated, the most skilled, the most completely trained in all lines of endeavor.

In running the race of life, it is true that some have greater talents than others, but ability comes largely from grit and determination. To illustrate this, and with no thought of disparaging a boy or girl who may be handicapped by being born rich, it seems to be universally recognized that the poor boy and girl, who fight and fight hard to get the higher training, which you, today's graduates, have now had, by virtue of the very hardship in gaining this training are made stronger; they are the ones who almost invariably are holding the places of high honor and trust, today.

Just as the racing colts develop, some as runners, some as pacers, some as trotters, so it will be with you, some will be one thing, some another, but I hope all of you will be winners. Life is such, however, that all cannot be equal—some will be mediocre, or second or third place, and others may be outdistanced entirely. But it is certainly true, that your place is now dependent

on your effort and your ability. The call of life is for you to go on and on—if you stop and rest upon your present development and accomplishment, you will be lost by the wayside before another sun comes up. You may treat your mind as a sponge, and if you think it is now well filled and permit it to dry up, you will soon be as the dried remains of a sponge, useless and of no benefit. If you treat yourself as a vessel that you have only begun to fill and you continue by perseverance and effort to add to the contents and volume of the vessel from day to day, then you and only such as you will reach the dizzy heights of eminence.

I beseech you, that as you get on in the active life of the world, you do not shun difficulties, obstructions, and problems. When you meet with them, which you will, approach them cautiously and fearlessly and solve them. In their very solution, you gain strength and increase your ability. Following the line of least resistance never made a man or woman great. If this country had never had its great problems and difficult situations to solve, we would never have had a Washington, a Lee, a Webster, a Davis, a Calhoun, a Lincoln, a Jefferson, a Hamilton, or a Woodrow Wilson.

Old Man River, the great Mississippi River which has had much to do in the upbuilding and maintaining of the central part of our country, lying between the Rockies and the Alleghenies, first emerged from the melting snows on the mountainside as a trickling stream, ran down and down and finally found a rocky obstruction in front; it battered itself against this obstruction for hours and days, gradually gaining strength and volume from added waters from the mountainside. It rose in height and increased in volume, and yet, with a mountain on either side and one in front, it seemed helpless; but it continued, and the ever increasing amount of water, finally reached the top of the mountain in front and began to pour over. Thus the problem was solved, and the river went on to its ultimate destination. In doing this, it had amassed a water power sufficient to electrify a large part of two great commonwealths. Thus it is with man; the solution of the problems and obstructions in life develop the hidden and stored up power of man to an unknown and unexpected extent.

This great stream of water, Old Man River, so pouring itself over the mountain and having given off its great power, falls to the foot of the mountain and spreads itself upon the plains. It has gained strength in overcoming the obstructions in its way, and gathering itself together, it digs deep a channel in Mother Earth and moves on slowly, steadily, and powerfully in its course to the sea. As this mighty stream moves on, digging deeper its channel and making higher its banks, it develops into a mighty means of transportation. In its charted course and within the limitation of its banks, it finds freedom and power. If the same water were scattered over the land in shallow depths and waste places here and there, it would be without power or service to mankind.

So it will be with your lives. As you solve the difficult situations in life with which you will be confronted, grip yourselves, hold yourselves together, be normal, never give up, wield the added power of achievement and keep within the proper banks of limitation, let the principles of life which you have so well learned here in this great university be your guide in all your actions

and never swerve, never deviate from those principles of right and justice and charity and kindness which have been instilled into your very nature by your instructors and by your reading and studying.

The guiding star of purpose in your life may be one of many. There are varied purposes in life from which to choose. There is the purpose of social distinction, political preferment, and accumulation of wealth, with the idea that accumulation of wealth means power. I dare say you have been taught, and your training and reading here have brought home to you the thought that the experience of the race is that the one and only one true purpose in life is service to your fellow man; and that it is intelligence, virtue, and industry that gives man power over himself and all things.

In service to your fellow man is found the true happiness and contentment according to your talents, to which and for which providence has given you an existence. With this purpose in mind, your function in life is attained in full, be your ability great or small. To realize the most in life is to dedicate yourself wholly to this purpose, whether this results in the greatest distinction or not.

The extent and degree of service you render to those about you is the yardstick with which you measure benefit to yourself, to your community, and to your state. The right purpose in life having been selected, there are several other principles which must be followed and adhered to, to meet the full requirements of a successful life.

You must have character. Without character to support your progress, you are sure to fail. You may have undoubted mental ability, great energy, great willingness to do, but without a true and untarnished character based upon the principles of religion as recognized in this great democracy of ours, you will be an utter failure. Character constitutes the foundation stones of a great and noble man or woman. You can no more become truly great or noble without genuine character than you can erect a twenty-story building with soft mud or wasting sands as a foundation. Your character, well developed in accordance with ancestral and national traditions, ties you in to the great hope for the future.

You must likewise be courageous—being right you can always afford to assert yourself in life's struggles. No Lee, Jefferson, Jackson, Washington or Woodrow Wilson ever gained his renowned place in the hearts of the people of a great country without great courage. Executed and fully performed courageous acts of service to your fellow man are the steps on the stairway of fame and renown—and justly so!

To the spirit of courage there must be added energetic activity. We may well define energetic activity in this sense, as the fullest exercise of your talents at all times for the fulfilment of your life purpose. In slang phrase, it is the spirit of "Never say die" that gets you somewhere. This spirit is well illustrated by the story of the milkman and the frog:

A milkman, being short of the amount of milk necessary to supply his customers in the town, in passing from his farm to the town, stopped at a small stream, and dipping up from the stream a sufficient amount of water which, when added to his milk made the required amount to supply all his customers, accidentally dipped up a frog, and into the milk can went the frog. The

milk can was closed and the farmer drove on to town. The frog, realizing his position, knew not what to do; it looked as if the only thing to do was to "say die". But not so. Mr. Frog picked up his courage and decided he would die kicking anyway. He began to kick and kick, and by kicking energetically he churned the milk into butter. When the milkman reached town and opened the can, he found Mr. Frog sitting on top of a cake of butter, floating on top of the milk.

I like and believe in this spirit of "Never say die". It is very well expressed in a poem by Robert Service, wherein he says:

"You've had a raw deal!
 I know, but don't squeal.
 Buck up, do your damndest and fight.
 It's the plugging away that will win you the day,
 So don't be a piker, Old Pard!
 Just draw on your grit, it's so easy to quit.
 It's the keeping your chin up that's hard.
 It's easy to cry that you're beaten and die;
 But to fight and to fight when hope's out of sight,
 Why that's the best game of them all!"

Let me caution you that your attitude toward others will have much to do with your happiness and your power for good. Keep your mind open to the great departments of human interest; keep your heart open to the great spiritual motives of unselfishness and social service; and always keep your will open to opportunity for wise and righteous self-control. You will find in all parts of the world just about the type of people you are looking for. Your own feelings, your own likings, your own character, and condition and attitude toward people and things will largely be reflected in those with whom you come in contact.

Before the days of the western frontier were over, a traveler, with his wife and child, wending his way slowly westward in a covered wagon, late in the evening stopped at a farm house in the foothills of the Rocky Mountains and asked for the privilege of stopping for the night. The request was hospitably granted. After the evening meal, the host and the emigrant lighted their pipes and began talking. The host inquired where the emigrant was from. The emigrant told him he was from Eastern Tennessee. The host asked him about the people in the country which he left. The emigrant said they were a bad lot, poor neighbors, selfish, bigoted, and, generally good for nothing class. He left, he said, because they had treated him so badly. The emigrant then asked the host what kind of people he would find in these parts if he concluded to settle here. The host replied, "You will find the same kind of people here. They are not neighborly; they are mean, tricky, and generally a good for nothing lot."

The next evening another emigrant with his family asked for lodging under very similar circumstances, and in the same way a like conversation ensued. When the host asked the emigrant what kind of people he had left behind, the emigrant replied, "They were very fine people, hospitable, splendid neighbors, law abiding, religious, home loving, industrious and splendid in every way." He was only leaving there, he said, because of a sick wife who the doctor

said would have to get into the mountains in order to live. The emigrant then asked the host what kind of people he would find there if he found the mountain air there would permit him and his wife to locate. The host replied, "You will find the same kind of people here you left at home; the people here are just as fine in every way as you say your people were that you left." Now, my friends, that host was a philosopher. All through life you will find the kind of people you are looking for. Live and act and do so that your reflection in the mirror of your community in which you live may always show a high class of people, a people inspired by those high and noble sentiments which make for the betterment of our race. It lies within your own self and your own power and influence to do this.

You, as graduates from this fine university, trained and educated as you are, have resting upon you a far greater responsibility than those who are so unfortunate as not to have had your opportunity. The State has undertaken to train you and educate you, so that you will consider nature a familiar friend, art an intimate acquaintance. It has undertaken to place in your pocket a key to the world's library and thereby make you feel that its resources are behind you in all your tasks as a citizen; it has undertaken to make such a man or woman out of you as that you will lose yourself in generous enthusiasm in cooperating with others for the common ends of society.

And thus may we not now reasonably draw the conclusion that the object of education is the welfare and happiness of each individual and through this the ultimate good to the whole of mankind.

Before closing, I want further to caution you to beware of a somewhat common idea that the proper thing to do is to become a member of what is sometimes called the superior class, that class in which the members ride about in expensive automobiles attended by servants, wear expensive and peculiar clothes, spend their evenings and late hours in revelry in night clubs or elsewhere and mostly spend money accumulated by dead parents or uncles. Men who live on dead men's money and earnings are dead themselves; they are so near drowning that in sinking they clutch at society and draw it down into the depths with them. To crave membership in the superior class is to crave the power to exclude others, and to exclude others is to exclude yourself.

Those who belong to a superior class, thereby shutting out the poor and so called ignorant do by the same act deprive themselves of all the spiritual benefit the lowly have to give, and they have much to give.

This so-called superior class is often a menace, if not a curse to mankind. Never forget that all honest effort to obtain a livelihood is honorable, and many times a king wears blue overalls, or a queen a calico dress.

The kings and queens of earth are all about us. They are the true and noble citizens who are living honest and upright lives; it makes no difference what their station in life is, so long as they have character and the right purpose in life. It is such citizens that form the very backbone and marrow of our great democracy, and they should always have your respect and admiration.

Safety, sanity, contentment, and happiness lie in human service and fellowship. The happiest moments of life are those when we forget self in useful endeavor in behalf of others. Happiness is only possible through a life of

activity—the life of courageous, continuous endeavor. As you by your endeavors radiate happiness to others, so is the happiness of others radiated unto you.

In your life, be very sure to always live so that your own self is clean, pure and noble, and decent, a self that you are not ashamed to live with, for live with yourself you must.

And now may we conclude that when you have lived and played your part on earth's great stage of things, you may be able to say, as has Virgil:

“I have lived and accomplished the task that destiny gave me, and now shall I pass beneath the earth, no common shade”.

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BACCALAUREATE SERMON

THE ROAD TO VICTORY

by

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Pastor, First Presbyterian Church of Pensacola

UNIVERSITY AUDITORIUM

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THE ROAD TO VICTORY

"Thou wilt show me the path of life."—Psalms 16:11

"I thought on my ways, and turned my feet unto Thy testimonies".—Psalms 119:59.

THE WORLD that the Psalmist knew was a rather small affair. In that distant day man conceived of the earth as a little disk of dirt; hell was just a cavern under his feet; heaven was a blue vault, resting like an inverted bowl over his head. In the ceiling of this vault were studded the stars, and the sun and the moon made their daily and nightly journey across its arc. Just over this arc was the throne of God, full of angelic glory and majesty. The crude imagery of that day has vanished, but the sense of man's need of God—of a Guide to show us the path of life—is a fact that is ageless. If there is anything that we need to know it is the path that leads to life's crowning victory.

How puzzled we seem to be! The very vastness of our universe has added to our confusion. The stars are so far distant that they cannot be measured in ordinary miles but by what we call light years. With all of our skill and advance in knowledge we are in danger of allowing the physical to bulk so large in our minds that the spiritual element dwindles into insignificance. The Psalmist knew less of germ plasm and starry stuff than we know, but he had a definite sense of assurance of God. "Thou wilt show me the path of life". "In thee, O Lord, do I put my trust". "I will say unto God, my rock".

GOD AND HUMAN LIFE

The fact that living is a troublesome business is growing on our modern consciousness. We have stripped it of much of its romance. And naturally so—since we are uncertain about God, we are uncertain about His universe and uncertain about the place that we are to occupy. We are not even sure that our own part matters very much. Popular writers like H. G. Wells may repudiate the idea of a personal God; Bernard Shaw may talk about the "life-force"; others, like Bertrand Russell, may disclaim Him altogether and plunge us into deeper seas of gloom by saying that "the individual soul must struggle alone with what of courage it can muster against the whole weight of a universe that cares nothing for its hopes and fears". But that leaves too much unaccounted for. The moral law is not something which man has invented and which he may throw into the discard at his own option. It is not even the product of long custom or experience. It derives from Almighty God. It is the expression of the will of the Creator of this universe. Holiness, truth, purity, and love are not expediences simply—things which the race has found to be for its benefit and happiness. They have their roots in God.

Just so long as the created universe speaks of God, so also will human life speak of God. The riddle of life may be hard to read, but no real thinker will try to explain it solely on physical grounds. All around there are voices that speak to us and hands that beckon to us bidding us look up and trust. Francis Thompson was a poet, living in poverty and illness, and singing songs

in the dark and damp of London's streets that might have been echoed by harps of gold. After his death they found these lines scribbled on a piece of note paper:

"O world invisible I view thee,
 O world intangible I touch thee,
 O world unknowable—I know thee.
 Not where the wheeling systems darken
 Or our benumbed conceivings soar—
 The drift of pinions, would we hearken,
 Beat at our own clay-shuttered door;
 The angels keep their ancient places:
 Turn but a stone and start a wing—
 'Tis ye, 'tis your estranged faces
 That miss the many-splendoured thing."

If man, in his hopes and fears and loves, is but the outcome of physical forces, then we would have to conclude that all the labor of the ages, and all the brightness of human genius are to be extinguished, and every day we would be challenged by every sense of beauty, by every sentiment of love, and by all the worth of human character. It is emphatically true, as a contemporary writer has put it in a rather unconventional form:

"I must have God. This life's too dull for aught but suicide. What's man to live for else? I'd murder someone just to see red blood. I'd drink myself blind drunk and see blue snakes, if I could not look up and see blue skies, and hear God speaking through the silence of the stars."

It is certainly an hour fraught with the greatest meaning, not only for you but for the world that you will help to mould, and it will grow more meaningful as you hear God speaking and as you turn your feet unto His testimonies. For life will hold no good promise if left to make way for itself; if character (that supreme something) is abandoned to chance—left to grow wild, to wander at random. There are two great factors in the business of living: God and the soul. It is not enough that our minds be trained. A thinker may be a very interesting person, but sometimes he is a sophist; or he may be abstract and vague, and therefore unprofitable. There is a logic of the heart that is far more profound and infallible than our blundering human reasoning. Truth does not hang all of her pictures in the cold gray light of reason. The kind of thinker who holds the world in his debt is he who brings the full power of mind and heart to bear upon the most urgent and momentous issues of life.

A PATH OR A WILDERNESS

Every man who thinks seriously must at times feel the strangeness of our human lot. But there must be some reason why we are here. Though we may not be able to find out the whole of it, the world is intelligible to the limit of our thought; and this gives us the assurance that an Eternal Reason tells us that "nothing walks with aimless feet", that life is not "a tale told by an idiot, full of sound and fury", but that even our little lives are included in a plan which involves the destiny of nations and races and worlds. But the only way that we can solve the problem of why we are here is by living

our lives. Mere thinking cannot give an answer. Profound thinking is the privilege of a few great minds, but profound living is open to all. Horace Walpole wrote to friend: "Experience reverses its utility by coming at the wrong end of life when we do not want it". But can we not profit by the banked experience of others who have gone on? We may not be able to formulate into an orderly system what we learn of life, but isn't it obvious that we are being trained for something, and that some reason is disclosed to those who live deeply and nobly?

Life discloses a path to those who are willing to follow its leading. One need not wander in the wilderness and get lost. We talk much about the confusion in life, but there are many who feel (as Paul Scherer expressed it) that "there is not so much confusion as there is of plenty of downright avoidance".

In one of his novels, Maxim Gorki, the Russian novelist, portrays one that is confused. He is "The Bystander", the man who is totally lacking in any fundamental conviction. Through page after page of futility he looks on at the drama of modern chaos. While others play their part for good or for evil, he stands by with a puzzled air. He simply vegetates while the world moves on. I suppose that many of us have met this man in his different spheres. His puzzled cries awaken our sympathy. It may be that he is in an excellent situation from an economic and social point of view, but he does not know what it's all about, and he just stands by while the procession moves on.

Or they may fit into the character in Sir Phillips Gibbs' *Young Anarchy*, who, having no convictions, looks on at life as a rather absurd sort of thing. He is amused and interested at times, but generally a little bored. He hopes to have the best time possible according to his luck, and dodge as far as possible the unpleasantness which will probably hit him when he least expects it. Of course, back of much of this kind of talk there is a shallow pose of cynicism, still a wistful longing for some hope for the future if he but knew how to realize it.

Sometimes we find that the wettest of wet blankets is the man who was most of a visionary in his youth, but who did not have the gallantry of spirit to carry on. He is the kind of a man who says to others who are still daring: "My dear fellow, no doubt yours is a very beautiful dream, but some day you will wake up and realize that things just do not work out that way." Robert Louis Stevenson said: "I will always think the man who keeps his lip stiff and makes a happy fireside clime, and carries a pleasant face about to friends and neighbors is infinitely greater (in the abstract) than a bilious Shakespeare." It is not much of a sign of courage or manhood to sit in a circle like a pack of wolves, and howl to the heavens, determined that the whole world will know that we are cold and hungry, and mightily offended because life will not run our way—like poor old King Lear, who cried: "They told me I was everything—'tis a lie; I am not ague-proof". The poor old shivering, maddened soul! And yet the fact remains that a touch of faith in the decency of things and in the moral order of the universe would have made a man of him and enabled him to face life with honor in spite of his ague.

And yet we award prizes to certain literary gentlemen like Sinclair Lewis and Theodore Dreiser, who sit down in the mud and scum of things and find

pleasure in emphasizing the tough and bestial aspects of human nature. And too often they are petted and praised by ecstatic followers who gather about them and clasp their hands and roll their eyes and exclaim, "How deep! How wonderful!" Well, if things are as bad as they say, why is it necessary to make all that outcry? An old Chinese thinker has given an admirable rule for life which closes with these words:

"And when it's time to go—GO,
And make as little fuss about it as you can".

THE END OF AN ERA

The thing that has come to pass in our world in the last two years is not so strange, nor is our condition so hopeless as it may seem. If the kind of order that was taking form had endured, that would have been not only strange, but contrary to every known law of values. If it be true that we have come to "the end of an era", we should congratulate ourselves, because it was an era that preferred to wander in the wilderness rather than travel the highway of moral progress. The members of this class are going out into a world that is learning the painful but valuable lesson that when "things are in saddle" they ride the soul to certain ruin, and when we shall have learned that lesson there is no excuse for added confusion.

What a farce life would become if our easy-going optimism had endured. Our wealth was bountiful, our prestige unchallenged. We were moving on to a Utopia with four-day weeks, and six-hour days. It was fast becoming unpopular to earn one's living by the sweat of the brow. Soon we would cross oceans walking on moonbeams. We thought that we could go into the market on a shoe-string and come out with a chain of gold, that the surest way to personal prosperity was to speculate for a rise in prices because prices always went up. We had modern conveniences but little modern conviction. We had everything to live with, but nothing very worth while to live for. It was a picture of life dispersed and superficial, a life of hectic dullness. With all of our prosperity we were not very happy, for "the happy ages have always been ages of vital faith".

Edmund Burke was right in his dictum that "you cannot indict a people", and it is a heartening sign that there are men and women in the world who have kept their faith and their courage, and who are waiting to join hands with thousands of others who are coming out of places of learning with new ideals and purposes for the making of better homes, better schools, better churches, better industry, and better government. Some of the old Greek thinkers held that if men knew more they would sin less, and if they knew all they would not sin at all. That "knowledge is power" is one of the accepted proverbs of mankind. But in reality knowledge is only the key to the use of power. Knowledge enables men to act intelligently, but it gives no assurance that they will do so. The kind of knowledge that will light a path through a darkening world is that knowledge that comes of a sense of a Reality beyond ourselves, urging us to something better. Out of such will come the real leaders, whose work will stand the weathering of the years because they chose to "live dangerously" rather than "muddle through" in safety.

THE NEED OF MORAL LEADERSHIP

Our country needs leadership of the sort that can arouse the people of this land in a determined effort to "clean the Stygian stalls of our social order, and sever the alliance between the underworld and crooked politics, the representatives of which are thugs and murderers and child stealers, so that we may root out the poison nests of crime that infest this land. It is not enough to punish crime. The only way in which it can be rooted out is to change the whole atmosphere of our thinking and help to organize society on a basis where crime is unpopular.

You and I cannot continue to live on the accumulated capital of our grandsires, who laid the foundations of liberty in sacrifice, to whom patriotism meant not self-getting but self-giving. We need not wonder should communism find fallow soil in a land where our own lawlessness creates a moral atmosphere in which crime can thrive and prosper. We may be astonished when experts tell us that our annual loss through crime and racketeering reaches into billions of dollars. It is fearful that such a sum should be lost to the constructive program of this country. As a nation we may survive the loss in money, but we cannot long survive the loss in human character that is inferred. There must be a new respect for law, a rebirth of patriotism, a new interpretation of the rights and duties of citizenship. We may talk about our liberties, but when what we call liberty reaches that pitch where it permits crimes of violence to wound the holiest and most venerable rights of life, it changes its name and becomes barbarism.

The answer to our problem is in the moral law of right and wrong, the path that God hath lighted in the human conscience. It is not to be found in such cheap panaceas as a beer parade, led by the jaunty, jesting mayor of America's largest city. In God's name, in the name of patriotism, I would plead with you to go out into the world and reassert your faith in the majesty of the law as the pillar and crown of our country. We can have a greater country if we want it; we can put an end to tyranny, to corruption, to anarchy, to class hatreds and social selfishness. But we cannot accomplish it solely through legislation, or education, or discipline. There must be a change of heart, a thinking upon our ways and a resolute turning to the testimonies of God.

THE COST OF VICTORY

Never forget that the path of real living has its certain guide-posts. It is a way that is plainly marked, but it is not an easy way. There are no short cuts, no bargain counters on the road to real attainment. We must pay down the cost of manhood. If man is meant to be "a fat and indolent creature curled up at ease in the safe fold of a cabbage leaf", then human experience has been poorly planned. Unless our courage is greater than our fears, unless we believe that the goal is worth all that it costs in toil and agony, we will come to the end unfreed, still unblest, never having lived.

This is a great day for positive living, for those who are not satisfied to dwell in negatives. It is easy to doubt and there is much that we cannot explain and do not understand. Indeed life would be dull if we had reached the limit of truth on any of its broad lines. It is the limitless extent of

truth that bids us go on. It is not the fondling of our doubts but rather the obedience to our verities that leads to the heights of knowledge. Truth is something to be embodied here and now in the stuff of character. It is not something to be held in a vacuum. Truth is never known until it is practiced and tested in experience. When a young college student, Horace Bushnell, decided to begin to live by what he believed, rather than publish to his fellow students what he could not affirm, he found increasing strength. Everything that we shall do will bear the stamp of what truth means to us.

I think that Ruskin had this in mind when, as he stood one day in Venice and saw a cathedral in ruins, he said: "Somebody has been untruthful, somebody has placed lying stones in these walls and foundations". Entering a home, he found people burning up with fever, and he said: "Somebody put lying lead into the drainage pipes". One day he saw a great ship dashed on the rocks and a hundred lives lost, and he said: "Somebody has been untruthful, someone has put lying links into the great cable that ought to have held the ship when the storm came". Rushing into a church one day in the midst of a heavy rainstorm, he saw large buckets placed to catch the water as it dripped from the matchless frescoes of Tintoretto, and he said: "Somebody has been untruthful—someone has placed lying tiles on the roof." And I think if Ruskin were still living and should visit America, that he would write another treatise, not on the "Stones of Venice", but on the hay and stubble of our American civilization. And I think he would say, after he had visited Wall Street and our stock exchanges and had seen the wreckage in men and morals and the false lure of easy wealth, "Somebody has been untruthful—someone has put lying figures into the schedule of assets of stocks that were supposed to be backed by honest values". And I think that he would visit our places of government and having seen the ruin that graft and politics had wrought, and how the liberties of a great people had been prostituted and used, not for the safeguarding of rights but for the shielding of wrongs, he would then write: "Somebody has been untruthful, someone has put lying timbers into the structure of government;—someone has tampered with the scales of justice".

That was a fine tribute which Johnson paid his friend Boswell: "He had no genius, but so true is he that if he promised a man acorns and no acorns grew in England that year, he would go all the way to Denmark to get acorns rather than break his word."

You are going out into a world that needs all the enrichment that manhood inspired by truth can bring to it. Do not be imposed upon by those who sit in the seat of the scornful, by the cynic's sneer putting on the air of critical wisdom. As you set out on your journey, turn your thoughts and then your feet to the testimonies of God. Remember that the Son of God, even in the shadow of Calvary, saw the dawning of the day of victory. The world needs trained minds, but above all it needs the hope and the courage that Christ alone can inspire.

When a man told Sir Stafford Northcote of Lord John Russell's death, he added: "Poor John!" To which the other answered, "Why poor? He was given a great chance and he took it". You have been given a great chance,

Take it and make the utmost of it. Catch the spirit of those lines written by G. A. Studdert-Kennedy:

“We shall build on!
On through the cynic’s scorning,
On through the coward’s warning,
On through the cheat’s suborning,
We shall build on!

“Firm on the Rock of Ages,
City of saints and sages,
Laugh while the tempest rages,
We shall build on!

“Christ, though my hands be bleeding,
Fierce though my flesh be pleading,
Still let me see Thee leading,
Let me build on!

“Till through death’s cruel dealing,
Brain-wrecked and reason reeling,
I hear Love’s trumpets pealing,
And I pass on”.

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With Announcements for the Year

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The Committee on University Publications
University of Florida
Gainesville, Florida

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THE DIVISION OF MILITARY SCIENCE AND TACTICS

FACULTY

ADMINISTRATION

- JAMES A. VAN FLEET, Major, Infantry; Commanding Officer and Professor of Military Science and Tactics
WALTER J. MULLER, First Lieutenant, Infantry; Adjutant and Commanding Officer Enlisted Detachment
RAYMOND K. QUEKEMEYER, First Lieutenant, Field Artillery; Supply Officer
JOHN F. WILLIAMS, First Lieutenant, Field Artillery; Stable Officer
WILLIAM D. KLINEPETER, Technical Sergeant; Chief Clerk
DALLAS B. HUNDLEY, Staff Sergeant; Supplies
JULIAN F. AYERS, Sergeant; Supplies
JOSEPH C. BRANDKAMP, Sergeant; Stables
JESSE A. VITATOE, Sergeant; Infantry Records
CHARLES W. McKEOWN, Sergeant; Field Artillery Records
CHARLES H. BELL, Technical Sergeant; Range
KLEIN H. GRAHAM, Civilian Military Property Custodian

INFANTRY

- JAMES A. VAN FLEET, Major, Infantry; Professor of Military Science and Tactics
OTTO F. LANGE, Major, Infantry; Assistant Professor of Military Science and Tactics; Director of Infantry Unit
WILLIAM C. MOORE, Major, Infantry; Assistant Professor of Military Science and Tactics
DORR HAZLEHURST, First Lieutenant, Infantry; Assistant Professor of Military Science and Tactics
WALTER J. MULLER, First Lieutenant, Infantry; Assistant Professor of Military Science and Tactics

FIELD ARTILLERY

- JAMES A. VAN FLEET, Major, Infantry; Professor of Military Science and Tactics
DANIEL A. CONNOR, Major, Field Artillery; Assistant Professor of Military Science and Tactics; Director of Artillery Unit
ERNEST T. BARCO, Captain, Field Artillery; Assistant Professor of Military Science and Tactics
JOSEPH P. DONNOVIN, Captain, Field Artillery; Assistant Professor of Military Science and Tactics
JOHN F. WILLIAMS, First Lieutenant, Field Artillery; Assistant Professor of Military Science and Tactics
RAYMOND K. QUEKEMEYER, First Lieutenant, Field Artillery; Assistant Professor of Military Science and Tactics

ARMY DETACHMENT

- WALTER J. MULLER, First Lieutenant, Infantry; Detachment Commander
WILLIAM D. KLINEPETER, Technical Sergeant, Acting First Sergeant

GENERAL INFORMATION

HISTORY

The Division of Military Science and Tactics of the University of Florida is a continuation of the military systems established in the various state agricultural and mechanical colleges under the old Land Grant Act passed during the War between the States. During the World War, the Division functioned as the Students' Army Training Corps. The Infantry Unit of the Reserve Officers' Training Corps was established at the University in 1920, and the Artillery Unit was added in 1928. During the past eight consecutive annual inspections, the Division was awarded the highest rating bestowed by the Federal Government.

OBJECTIVE

It has always been the policy of the Federal Government to maintain a very small standing army. Should a major emergency arise, this small army could serve only as a delaying force; it would be necessary to call into service a large National army, and to provide it with trained and experienced officers. A study of military history shows that many lives have been lost in the early stages of war solely because of the scarcity of trained officers capable of leading men into combat. The Reserve Officers' Training Corps at the University of Florida and like institutions provide the reservoir from which these leaders will be drawn.

At the same time a certain benefit accrues to the State in that each year there are graduated a hundred or more highly trained Florida men who in time of emergency will be capable of leading Florida troops into action. Thus, the State will not be dependent upon incompetents or officers from other states to lead her troops.

The student benefits in that he is taught discipline, which includes self-control as well as the ability of controlling others. He is taught self-reliance, cooperation, and respect for authority. Military drills and equitation insure a proper amount of supervised exercise, so that he is improved physically. His mental and moral growth are not neglected, for the entire course of instruction is designed and the Regular Army personnel is selected with the mental, moral, and physical welfare of the student in mind. Upon successful completion of the four years of training, he is presented with a Reserve Commission in the United States Army.

EQUIPMENT

In order to maintain and instruct these units properly the government provides a regular army personnel of thirty-four members, and equipment valued at one half million dollars. Included in the equipment is a complete battery of Field Artillery, and clothing and partial equipment for a regiment of Infantry and of Field Artillery. The University has provided offices, classrooms, storerooms, and excellent drill and maneuver grounds. A modern stable houses the seventy government horses maintained by the unit. Rifle, pistol, and gallery ranges, and a polo field are also available.

ADMISSION

The course of instruction covers four years of military training, leading to a commission in the Reserve Corps of the United States Army. Students are assigned to the Infantry or Field Artillery according to the college or department in which they are first registered.

THE BASIC COURSE

The Basic Course of both the Infantry and the Field Artillery covers the first two years. It is required that all students satisfactorily complete this course unless they are exempted for cause. It is usually pursued during the freshman and sophomore years, and is designed to qualify the student in the duties of a Non-commissioned officer, and more particularly to qualify him as a candidate for the Advanced Course.

THE ADVANCED COURSE

Students who complete the Basic Course and who are selected by the Professor of Military Science and Tactics may elect the Advanced Course. It covers a period of two years and is designed to qualify the student in the duties of a commissioned officer. Students once registered for this course must carry it to completion. The Advanced Course student is given an allowance of forty dollars for uniform-clothing for the two-year period, and is paid nine dollars per month, except during the six weeks summer training camp period (Required) between the junior and senior years, when he is paid at the rate of twenty-one dollars per month. He also receives mileage to and from camp, and all expenses while in camp, including rations, medical attention, clothing, laundry service, and lodging. Students who carry this course to a successful completion are commissioned as second lieutenants in the Officers' Reserve Corps of the United States Army.

EXEMPTIONS

Exemption from military training at the University of Florida is granted in the following cases:

- (1). Students who are twenty-one years of age when they first register at the University Florida. Claims for this exemption *MUST* be accompanied by an affidavit from a parent or guardian.
- (2). Students unable to drill by reason of physical disability, as certified to by the University Physician.
- (3). Students whose military work elsewhere is accepted by the Professor of Military Science and Tactics as fulfilling the requirements.
- (4). Students who hold a commission in the Officers' Reserve Corps of the United States Army.
- (5). Students taking courses of one year's duration or less.
- (6). Students who are citizens of foreign countries.

Students exempted from Military Science, in order to receive a degree, must offer an equal number of hours of other work in lieu of Military Science. Choice of these courses must be approved by the dean of the college in which the student is registered.

ATTENDANCE

Absence from Military classes are penalized in the same manner as absence from any other class. Absences from drills and parades, in addition to being so penalized, are required to be made up before the end of each semester. The drill field is the laboratory wherein the military student puts to test what he learns in the classroom. It is obvious that a large number of absentees from the ranks materially interferes with efficient instruction, and those present are the ones most penalized. Therefore, students are expected to attend all formations.

CADET ORGANIZATION

THE BRIGADE

The Reserve Officers' Training Corps at the University of Florida, composed of about fourteen hundred students, constitutes a brigade consisting of a headquarters and two regiments, one of Infantry and one of Field Artillery. The Brigade Headquarters consists of a Cadet Colonel, in command, and his staff.

As far as possible all practical training and discipline within the Corps is placed in the hands of the Cadet Officers and Non-commissioned Officers, with only enough supervision by the Regular Army personnel to insure proper instruction and proper training of the student in command and leadership. During the first semester the training is by Company and Battery. During the second semester, the instruction is carried on through the headquarters of the Brigade and of the Infantry and Field Artillery Regiments. During this second period there is held a series of parades, reviews, and other ceremonies. The Cadet Officers and Non-commissioned officers are selected from among those students demonstrating the highest qualities of leadership and scholarship within the Corps.

THE INFANTRY REGIMENT

The Infantry Regiment is organized into a headquarters and six companies. The Regimental Headquarters consists of a Lieutenant Colonel, in command, and his staff. Companies A, B, C, and D are freshman companies, while Companies E and F are advanced training companies composed of sophomores. The former receive practical instruction in recruit drill, close and extended order drill, scouting and patrolling, military courtesy, discipline, and ceremonies. The advanced training companies review these subjects and specialize in combat principles for the squad and platoon.

Formations for the Infantry Battalion are held weekly on Tuesday afternoon from two to five o'clock.

THE FIELD ARTILLERY REGIMENT

The Field Artillery Regiment is organized into a headquarters and eight batteries, A, B, C, D, E, F, G, and H. The Regimental Headquarters consists of a Lieutenant Colonel, in command, and his staff.

All batteries are organized alike, the members of each class being assigned equally to the eight batteries. The practical instruction is uniform and progressive for each class group within the batteries over the four-year period, as follows:

FRESHMEN—Battery Equipment, Materiel, Service of the Piece.

SOPHOMORES—Horsemanship, Animal Management, Battery Communications, Fire-Control.

JUNIORS—Artillery Technique, Gunnery, Reconnaissance.

SENIORS—Tactical Employment of Field Artillery; Command and Leadership.

Formations are held weekly as follows:

(1) Dismounted drill: All Batteries—Tuesday 4-5 P.M.

NOTE:—During the first semester this hour is used for instruction in close order drill. During the second semester it is used for parades and other ceremonies.

(2) Mounted drill:

Battery A, Monday 1-3	Battery E, Wednesday 1-3
Battery B, Monday 3-5	Battery F, Wednesday 1-3
Battery C, Tuesday 1-3	Battery G, Thursday 1-3
Battery D, Tuesday 1-3	Battery H, Thursday 3-5

THE R. O. T. C. BAND

The R.O.T.C. Band is organized into two sections, a regular band of fifty pieces and a Bugle and Drum Corps of thirty-two pieces. Students are assigned to these units upon demonstration of ability. They are excused from other dismounted drills. These organizations are supplied with a distinctive Florida uniform supplied by the War Department.

HONORARY FRATERNITY

There is organized at the University of Florida, Company H, Second Regiment, of the National Honorary Fraternity of Scabbard and Blade. Its members are chosen from among those advanced-course cadets who have set the highest standard of command, leadership, and scholarship within the Corps.

HORSE-SHOW

The Reserve Officers' Training Corps will hold its third annual horse show in May, 1933. The success of the first show, in 1931, definitely fixed this as an annual event. The horse show receives the largest number of its entries from among the students of the Corps, but outside entries are welcome and the many hunt and riding clubs over the state are cordially invited to participate.

POLO

Polo was organized at the University of Florida in the fall of 1930, and since that time its progress has been steady. During the school year 1931-32, games were played with the P. W. Taylor Riding School of Jacksonville at Gainesville; Fort McPherson, Georgia, at Gainesville; the Louisiana National

Guard of New Orleans, at Gainesville, and a return game with the same team, played in New Orleans; the University of Georgia, at Gainesville, and a return game played in Athens, Georgia. Better trained army mounts, an improved polo field, and a score of excellent student riders indicate that the polo team will meet a successful season during the coming year.

OTHER CADET ACTIVITIES

Other activities of the Reserve Officers' Training Corps include an Annual Military Ball, the Sponsor's Parade, the President's Parade, the Graduation Parade, and the Reception for Reserve Officers. These take place in the spring of the year.

AWARDS

Many organizations throughout the state annually award medals and trophies to those cadets displaying the highest qualities of leadership in the various cadet activities. In the spring of each year a series of competitive drills is held to determine the recipients of these awards within each regiment of cadets.

In the spring of 1932 an honor award was created, to be presented on formal occasions to those students who excel in Reserve Officers' Training Corps activities. This honor award is the R.O.T.C. Merit Badge. It is given to varsity members of the R. O. T. C. Pistol Team, R. O. T. C. Rifle Team, R.O.T.C. Polo Team, and to other individuals who render meritorious service to the R.O.T.C. of the University of Florida.

The following awards were made during 1931-32.

Officer's Sabre—Presented by the Reserve Officers' Association of the United States, Department of Florida, in recognition of efficient and loyal service as Reserve Officers' Training Corps Regimental Commander, to Cadet Colonel Chester R. Yates.

Officer's Sabre—Presented by the Reserve Officers' Association of the United States, Department of Florida, in recognition of efficient and loyal service as Reserve Officers' Training Corps Regimental Executive Officer, to Cadet Lieutenant Colonel George B. Hamilton.

Officer's Sabre—Presented by the Officers of the 124th Infantry, Florida National Guard, in recognition of efficient and loyal service as Commander of the Reserve Officers' Training Corps Infantry Battalion, to Cadet Major Kenneth H. Smith.

Officer's Sabre—Presented by the officers of the 116th Infantry, Florida National Guard, in recognition of efficient and loyal service as Commander of the Reserve Officers' Training Corps of the Field Artillery Battalion, to Cadet Major Lewis W. Robinson, Jr.

Silver Trophy—Presented by the Reserve Officers' Association of the United States, Department of Florida, to Company C for 1931-32, in recognition of its outstanding leadership and efficiency within the Infantry Battalion.

Silver Trophy—Presented by the Reserve Officers' Association of the United States, Department of Florida, to Battery C for 1931-32, in recognition of its outstanding leadership and efficiency within the Field Artillery Battalion.

Gold Medal—Presented by the Reserve Officers' Association, Gainesville Chapter, to Cadet Captain Wilbur K. Miller, Company C, Commander of best Infantry company.

Gold Medal—Presented by the Reserve Officers' Association, Gainesville Chapter, to Cadet Captain Mills M. Lord, Battery C, Commander of best Field Artillery battery.

Gold Medal—Presented by the Military Department to Cadet Corporal Edward L. DuBois, Jr., Company A, neatest Infantry soldier.

Gold Medal—Presented by the Military Department to Cadet Corporal Paul A. Best, Battery C, neatest Field Artillery soldier.

Gold Medal—Presented by the Military Department to Cadet Corporal Sam W. Shapiro, Company F, best drilled Infantry soldier.

Gold Medal—Presented by the Military Department to Cadet Corporal William C. Lantaff, Battery A, best drilled Field Artillery soldier.

Gold Medal—Presented by the Military Department to Cadet Corporal William D. Kemp, Company C, Leader of best Infantry squad.

Gold Medal—Presented by the Military Department to Cadet Corporal Faunce R. McCully, Battery B, Leader of best Field Artillery squad.

Gold Medal—Presented by the Military Department to Cadet First Lieutenant Joseph B. Farrow, Company C, Leader of best drilled Infantry platoon.

Gold Medal—Presented by the Military Department to Cadet Captain Dick W. Judy, Battery B, Leader of best dismounted Field Artillery battery.

Gold Medal—Presented by the Military Department to Cadet Captain George D. Freeman, III, Company D, Leader of best drilled company.

Gold Medal—Presented by the Military Department to Cadet Captain Joseph T. Hall, Jr., Battery D, Leader of best Mounted Field Artillery battery.

Gold Medal—Presented by the Military Department to Cadet First Lieutenant Donald H. Conkling, Jr., Leader of best platoon, Manual of Arms.

Gold Medal—Presented by the Military Department to Cadet Captain Eugene B. Duncan, Company C, Leader of best company, Manual of Arms.

Gold Medal—Presented by the Military Department to Acting Cadet Corporal Caraway S. Hackett, Battery D, Leader of best Field Artillery gun squad.

Gold Medal—Presented by the Military Department to Cadet Corporal Thomas A. Delegal, Battery C, Leader of best communication team.

Gold Medal—Presented by the Military Department to Cadet Captain William L. Johnson, Company E, best Infantry senior in Commands.

Gold Medal—Presented by the Military Department to Cadet Captain Dick W. Judy, Battery B, best Field Artillery senior in Commands.

CLOTHING AND EQUIPMENT

GENERAL

1. Each member of the Reserve Officers' Training Corps will be held responsible for all articles of clothing and equipment issued to him. He will be required to return all such property at the proper time and in good condition.

2. Whenever a student for any reason fails to return any article as directed, he will be required to pay for the same at the Business Manager's office. In case a student fails to return property for which he is responsible or fails to pay for such shortage, his grades will be withheld and he will not be accepted by the University authorities for future registration at the institution.

3. The uniform must be kept clean, neat, well-fitted, and pressed at all times. The student will pay for all cleaning, alterations, and repairs, making his own arrangements for the same. At no time will the uniform be used roughly or abused.

4. The uniform will be worn at all drills and parade formations and upon such special occasions as the Professor of Military Science and Tactics may direct. It will not normally be worn to classes. It may be worn to classes, however, when there is insufficient time to change between class and drill formation. Whenever it is worn, it will be worn complete.

5. Articles of equipment when issued to a student for training and instructional purposes will be signed for by him, and returned to the Military Supply Room when so directed.

6. No part of these regulations will be construed as permitting a student, when directed to turn in any article, to keep and pay for same. This is not authorized by the Government.

CLOTHING—BASIC COURSE

7. The Government furnishes each student enrolled in the Basic Course of the Reserve Officers' Training Corps with a complete uniform, except for shoes. This consists of one overseas cap, one coat, one pair of trousers for infantry students, one pair of breeches for field artillery students, one waist belt, one black tie, one set of Reserve Officers' Training Corps Insignia, one olive-drab wool shirt, and one olive-drab cotton shirt.

8. Each student enrolled in the Basic Course of the Reserve Officers' Training Corps, is required to purchase one pair of approved laced boots or officer's shoes. No other shoe or boot may be worn with the army uniform. The student is also required to purchase a Garrison Belt to be worn with the coat.

9. Each student enrolled in the Basic Course of the Reserve Officers' Training Corps is required to pay at the time of registration the sum of two dollars. This fund, known as the Military Incidental Fund, is used to cover unavoidable losses, breakages, repairs, replacements, and to finance certain R.O.T.C. activities. It will not be applied on breakage or losses for which responsibility can be determined.

10. The uniform referred to in Paragraph Seven must last the student two years. Near the end of the second semester, all freshmen will be required to tag the uniform and turn the same in to the Military Supply Room. During the summer, this uniform will be cleaned and renovated, and issued to the same student at the beginning of the next college year.

CLOTHING—ADVANCED COURSE

11. A distinctive uniform and related equipment have been selected by the University for all members of the Advanced Course of the Reserve Officers' Training Corps. These articles are standard and official, and none others will be used.

12. This uniform will consist of one coat, one pair of breeches, one shirt, one cap, one black tie, one waist-belt, one pair of boots, one set of Reserve Officers' Training Corps insignia, one Sam Browne belt, and one "Gator" shoulder patch insignia.

13. The cost of this uniform is approximately sixty-four dollars. The University of Florida is responsible to the firms supplying same for the payment of all articles received and issued to students. Payments in turn will be made to the University as follows: from the Government in lieu of the uniform in kind, a commutation-value amounting to twenty dollars for each year of the two-year Advanced Course. The additional cost of the uniform is paid for by the student by allotment of a portion of the pay he receives quarterly from the Government.

14. The Military Property Custodian, in conjunction with the Auditor of the University, will maintain an individual clothing and equipment account for each student enrolled in the Advanced Course. Each student will be credited with the amount of commutation of uniform received from the Government, and other funds, such as commutation of rations and cash deposits, as made by the student. Each student will be charged on this account with the articles issued to him. A final settlement will be effected with each student when he terminates his work in the Reserve Officers' Training Corps.

15. Upon successful completion of the Advanced Course, the entire uniform and equipment mentioned in Paragraph Twelve will become the property of the student. If, however, the student fails to complete the two-year course, he will be required to return the complete uniform and equipment to the University or make a settlement with the Military Property Custodian for such articles as he may wish to retain.

16. Students desiring to purchase additional new uniforms and equipment may do so by depositing the cost thereof at the Business Manager's office. Students desiring to purchase additional second-hand uniforms and equipment may do so individually, provided the articles are approved by the Professor of Military Science and Tactics.

COURSES OF INSTRUCTION

INFANTRY

FRESHMAN

My. 101-102.—Freshman Infantry, required. (Basic) 2 hours theory and 3 hours practice. 4 credits. LIEUTENANT MULLER.

Text: *War Department Training Regulations.*

FUNDAMENTAL PRINCIPLES OF CITIZENSHIP

A lecture course to instruct the student in the fundamental principles of the National Defense Act, and in the organization, objectives, and institutional regulations governing the Reserve Officers' Training Corps; to instill in the student loyalty and respect for our National Government; to instruct him in personal hygiene, first aid, prevention of disease, and camp sanitation. Time given to topic, eleven instructional hours.

DRILL AND COMMAND

Theoretical and practical instruction in close order drill, extended order drill, ceremonies, tent-pitching, individual equipment, and combat principles. Time given to topic, one hundred and twenty-three instructional hours.

PRIMARY INFANTRY INSTRUCTION

Rifle Marksmanship: practical instruction and training in the principles of rifle marksmanship, to teach the student proper shooting habits and methods, and to instruct him in the nomenclature and care of the rifle. Time given to topic, sixteen instructional hours.

Scouting and Patrolling: A study of the duties of a member of a patrol and of a scout in small tactical exercises. Time given to topic, ten instructional hours.

SOPHOMORE

My. 201-202.—Sophomore Infantry, required. (Basic) 2 hours theory and 3 hours practice. 4 credits. LIEUTENANT HAZLEHURST.

Text: *War Department Training Regulations.*

DRILL AND COMMAND

A study of the qualities of leadership, and the art of command designed to qualify the student as a squad leader. Time given to topic, one hundred instructional hours.

INFANTRY WEAPONS AND MUSKETRY

A study of the elements of the characteristics of Infantry Weapons and of the supporting arms, to train the student in conducting the fire of a squad. Practical instruction in the mechanical functioning, positions, and combat use of the automatic rifle. Time given to topic, twenty-four instructional hours.

PRELIMINARY COMBAT PRINCIPLES

Scouting and Patrolling: A course designed to train the student in the conduct of patrols and in the duties of patrol leaders and scouts. Time given to topic, fourteen instructional hours.

Combat Principles (Rifle Squad): Theoretical and practical instruction to train the student to lead a squad in attack and in defense and on security missions. Time given to topic, fourteen instructional hours.

JUNIOR

My. 301-302.—Junior Infantry, elective. (Advanced) 3 hours theory and 3 hours practice. 4 credits. MAJOR MOORE.

Text: *War Department Training Regulations.*

MAP READING AND MILITARY SKETCHING

Theoretical and practical instruction to qualify the student to read military maps and to make simple road and position sketches. Time given to topic, twenty-four instructional hours.

DRILL AND COMMAND

A course designed to qualify the student to perform the duties of a sergeant and to act as an instructor of basic students at practical drill. Time given to topic, eighty-two instructional hours.

INFANTRY WEAPONS

A course designed to prepare the student for machine gun, 37 mm. gun, and 3" Trench Mortar firing at camp and to train him to act as a squad and section leader in drill and combat. Time given to topic, sixty-two instructional hours.

COMBAT TRAINING

(Rifle Section and Platoon)

A course designed to train the student in the duties of a Non-commissioned Officer of a rifle company in combat, and in the service of security. Time given to topic, twenty-four instructional hours.

SENIOR

My. 401-402.—Senior Infantry, elective (Advanced). 3 hours theory and 3 hours practice. 4 credits. MAJOR LANGE.

MILITARY LAW AND ADMINISTRATION

A study of court-martial procedure, of military law, and of the administrative problems of a company commander and the regulations covering company administration. Time given to topic, eighteen instructional hours.

MILITARY HISTORY AND POLICY

A reference study of available publications on the outline of the history of the wars of the American Republic and illustrative campaigns and battles; evolution of the military policy of the United States; lectures. Time given to topic, thirty instructional hours.

FIELD ENGINEERING

Elements of field engineering, to include standard types of field works; organization of working parties and tasks; selection of location of trenches; concealment and camouflage applied to infantry stream-crossing expedients. This course may be combined with Combat Principles (see below). Time given to topic, ten instructional hours.

DRILL AND COMMAND

A study of the qualities of leadership, and the art of command designed to qualify the student as a platoon leader, a company commander, and as an instructor of basic students at drill. This course is concurrent with the active command of the various cadet organizations by the cadet officers. Time given to topic, seventy-four instructional hours.

COMBAT TRAINING

A course designed to qualify the student in the duties of a lieutenant of a rifle or machine gun company or howitzer platoon in security and combat. Time given to topic, forty-eight instructional hours.

FIELD ARTILLERY

FRESHMAN

My. 103-104.—Freshman Field Artillery, required. (Basic) 2 hours theory and 3 hours practice. 4 credits. CAPTAIN BARCO and LIEUTENANT QUEKEMEYER.

Text: *War Department Training Regulations.*

FUNDAMENTAL PRINCIPLES OF CITIZENSHIP

A lecture course to instruct the student in the fundamental principles of the National Defense Act, and in the organization, objectives, and institutional regulations governing the Reserve Officers' Training Corps; to instill in the student loyalty and respect for our National Government; to instruct him in personal hygiene, first aid, prevention of disease, and camp sanitation. Time given to topic, twelve instructional hours.

DISMOUNTED DRILLS AND CEREMONIES

Theoretical and practical instruction in close order drill, ceremonies, organization of the battery and individual equipment. Time given to topic, fifty-six instructional hours.

FIELD ARTILLERY INSTRUCTION

Ordnance and Materiel: A short sketch of field artillery material and types under development; including a study of the important features of design and construction.

Field Artillery Ammunition: The use, care, handling, and essential characteristics of projectiles, fuses, primers, and powder charges.

Elementary Gunnery: A study of such elementary principles of ballistics as the student should know in order to understand how the gun is laid and how the projectile moves during its flight.

Service of the Piece: A practical course to qualify the student in the duties of the gunner and the cannoneer in the service of the piece.

The Firing Battery: A practical course to qualify the student in the drill of the gun-squad and the firing battery.

Pistol: The manual of the pistol, safety-precautions, nomenclature, operation, and preliminary instruction for range-firing.

Time given to entire topic, ninety-six instructional hours.

SOPHOMORE

My. 203-204.—Sophomore Field Artillery, required. (Basic) 2 hours theory and 3 hours practice. 4 credits. **LIEUTENANT WILLIAMS.**

Text: *War Department Training Regulations.*

DISMOUNTED DRILLS AND CEREMONIES

Continuation of the course of the first year. Time given to topic, forty instructional hours.

FIELD ARTILLERY INSTRUCTION DISMOUNTED

Fire Control Instruments: To give the students a practical knowledge of the use of fire-control instruments and duties of the instrument operators of the battery detail.

Battery Communications: To qualify the student in the duties of the communications personnel of the battery detail, in laying, operating, and maintaining battery communications, to include a thorough knowledge of the Type EE 5 Field Telephone.

MAP READING AND MILITARY SKETCHING

A course designed to qualify the student to orient, read, and use military maps with facility, to lay the foundation and prepare the student for topographical operations incident to the preparation of fire given to the first-year advanced students. Time given to topic, eighteen instructional hours.

Care of Animals: A study of the feeding, watering, conditioning, and care of animals in the field. Time given to topic, forty-two instructional hours.

FIELD ARTILLERY INSTRUCTION MOUNTED

Equitation, the Field Artillery Driver, Maneuvers Limbered: These three courses are progressive and are designed to qualify the student to ride easily and confidently at all gaits, to effectively control his horse, and to qualify him in the duties of a field artillery driver and in the simple maneuvers of a mounted battery.

RECONNAISSANCE AND OCCUPATION OF POSITION

A course designed to qualify the student in the several duties and functions of the battery detail, to include practical solution of tactical problems with a completely equipped battery detail composed of students. Time given to entire topic, seventy-eight instructional hours.

JUNIOR

My. 303-304.—Junior Field Artillery, elective. (Advanced) 3 hours theory and 3 hours practice. 4 credits. CAPTAIN DONNOVIN.
Text: *War Department Training Regulations.*

FIELD ARTILLERY SIGNAL COMMUNICATIONS AND LIAISON

A study of the duties of an artillery communication officer, to include establishment of message centers and all communications within the field artillery brigade; a general knowledge of the communication nets of supported infantry units; and duties and functions of liaison officers and detachments. Time given to topic, fifteen instructional hours.

PISTOL MARKSMANSHIP

Pistol marksmanship, dismounted to include firing the qualification course. Time given to topic, twelve instructional hours.

DRILL AND COMMAND

A course designed to qualify the student in the command and instruction of student batteries during the second year Advanced Course. Time given to topic, thirty-two instructional hours.

EQUITATION

Progressive continuation of the basic equitation course to include more advanced work; jumping and cross-country riding over varied ground. Time given to topic, sixteen instructional hours.

GUNNERY

A study designed to instruct the student in the important principles of gunnery, to qualify him in the deliberate and rapid preparation of firing data, and to train him in the conduct of fire and to prepare him for service firing at camp. Time given to topic, one hundred twenty-nine instructional hours.

SENIOR

My. 403-404.—Senior Field Artillery, elective. (Advanced) 3 hours theory and 3 hours practice. 4 credits. MAJOR CONNOR.
Text: *War Department Publications.*

MILITARY LAW AND ADMINISTRATION

A study of court-martial procedure and military law; and of the administrative problems of a Battery Commander, and of regulations governing Battery administration. Time given to topic, fifteen instructional hours.

MILITARY HISTORY AND POLICY

A reference study of available publications on the outline of the history of the wars of the American Republic and illustrative campaigns and battles; evolution of the military policy of the United States; lectures. Time given to topic, thirty-three instructional hours.

EQUITATION

A continuation of the first year advanced course. Time given to topic, sixteen instructional hours.

TACTICS

A study of the tactical employment of light field artillery in support of other arms, and a general knowledge of the organization and tactics of other types of field artillery. Applicatory exercises involving the battery and the battalion of division artillery. Time given to topic, sixty-three instructional hours.

DRILL AND COMMAND

A practical study of the qualities of leadership and the art of command designed to qualify the student as a Battery Commander, a Battery Executive Officer, and a Battery Reconnaissance Officer, and as an instructor of basic students at drill. This course is concurrent with the active command of the various cadet organizations by the cadet officers. Time given to topic, ninety-six instructional hours.

FIELD ENGINEERING

A study of the construction and the camouflage of various types of battery emplacements and shelters. Time given to topic, ten instructional hours.

BATTERY ADMINISTRATION AND SUPPLY

A course designed to acquaint the student with the administrative problems of a battery commander and the regulations governing battery administration. Time given to topic, forty-eight instructional hours.

SCHEDULE OF MILITARY SCIENCE CLASSES

Infantry Courses: My. 101-102; 201-202; 301-302; 401-402.

Drill: Tuesday, 2:00-5:00 P.M.

Artillery Courses: My. 103-104; 203-204; 303-304; 403-404.

Drill: The student must choose one two-hour drill period from 1:00 to 3:00 P.M. on Monday, Tuesday, Wednesday, or Thursday. In these courses there is a dismounted drill on Tuesday at 4:00 P.M.

Military Science	101-102			
Section	1	8 MW	Ba-101	Muller
	2	9 MW	Ba-101	Muller
	3	10 MW	Ba-101	Muller
	4	8 TTh	Ba-101	Muller
	5	9 TTh	Ba-101	Muller
	6	10 TTh	Ba-101	Muller
Military Science	103-104			
Section	1	8 MW	Ba-201	Barco
	2	9 MW	Ba-202	Quekemeyer
	3	9 MW	Ba-201	Barco
	4	10 MW	Ba-202	Quekemeyer
	5	10 MW	Ba-201	Barco
	6	11 MW	Ba-202	Quekemeyer
	7	8 TTh	Ba-201	Barco
	8	8 TTh	Ba-202	Quekemeyer
	9	9 TTh	Ba-201	Barco
	10	9 TTh	Ba-202	Quekemeyer
	11	10 TTh	Ba-201	Barco
	12	10 TTh	Ba-202	Quekemeyer
Military Science	201-202			
Section	1	8 MW	Law-202	Hazlehurst
	2	9 MW	C-110	Hazlehurst
	3	10 MW	Law-302	Hazlehurst
	4	8 TTh	Ba-203	Hazlehurst
	5	9 TTh	Ba-203	Hazlehurst
	6	10 TTh	Ba-203	Hazlehurst
Military Science	203-204			
Section	1	8 MW	Ba-203	Williams
	2	9 MW	Ba-203	Williams
	3	10 MW	Ba-203	Williams
	4	8 TTh	B-205 A	Williams
	5	9 TTh	B-208—B-209*	Williams
	6	10 TTh	B-210	Williams
Military Science	301-302			
Section	1	10 MWF	Law-301	Moore
	2	11 MWF	Law-301	Moore
	3	1 MWF	Law-301	Moore
Military Science	303-304			
Section	1	8 MWF	Law-301	Donnovin
	2	9 MWF	Law-301	Donnovin
	3	9 TThS	Law-301	Donnovin
Military Science	401-402			
Section	1	9 WMF	B-209—B-210*	Lange
	2	10 MWF	B-209—B-210*	Lange
	3	1 MWF	B-209—B-210*	Lange
Military Science	403-404			
Section	1	9 MWF	B-209—Au-200*	Connor
	2	10 WMF	B-209—Au-200*	Connor
	3	1 MWF	B-209—Au-200*	Connor

*The first entry is the room for the first semester; the second entry is the room for the second semester.

The University Record

of the

University of Florida

*Twenty-Five Million Dollars
Annually from Research*



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Gainesville, Florida.

Research Publications.—Research publications will contain results of research work. Papers are published as separate monographs numbered in several series.

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The Committee on University Publications,
University of Florida,
Gainesville, Florida.

LETTER OF TRANSMITTAL

For some time an appraisal of the research work at the University of Florida has been badly needed. To determine what has been contributed to the economic structure in the past and to plan the most efficient application of effort in the future, an inventory of research projects seemed necessary. Accordingly, some time ago I appointed a committee of the faculty consisting of Mr. H. Harold Hume, Chairman, Assistant Director of Research, Agricultural Experiment Stations; Dr. Townes R. Leigh, Dean of the College of Pharmacy; Dean Walter J. Matherly, of the College of Commerce and Journalism; Dr. Clarence Vernon Noble, Agricultural Economist, Experiment Station; Dr. Arthur A. Bless, Associate Professor of Physics, and Professor P. L. Reed, Head of the Department of Civil Engineering.

The accompanying bulletin is the result of the work of the committee. This study verifies the belief that many of those acquainted with the work of the University have held, viz., the yearly contribution to the economic welfare of the State made by the University far exceeds the amount appropriated for its support.

Up to this time the University has carried on research most effectively along agricultural lines as a result of stimulation by the Federal Government. When the work was first undertaken funds for these investigations were provided almost entirely from federal sources but in recent years they have been supported in large measure by State appropriations. Unfortunately, the Federal Government has done nothing as yet to stimulate research along industrial and commercial lines. The State has neglected this important field.

There is little doubt that the present services of the University to the State may be greatly enlarged by the addition of other programs of research and by carrying forward more diligently some of the work that is already in progress.

JNO. J. TIGERT.

Jno. J. Tigert, President,
Gainesville, Florida.
August 25, 1932.

*TWENTY-FIVE MILLION
DOLLARS ANNUALLY
FROM RESEARCH*

FOREWORD

For years past, research work, supported by state and national appropriations, has been carried on at the University of Florida. In an effort to determine whether these expenditures are justified, and, looking to the future, to determine whether this line of activity should be extended or curtailed, a careful survey has been made within the past year. It has not been possible to cover every detail, but in a broad way the results from research activities at the University have been examined carefully.

The findings of this study establish beyond doubt the fact that research carried on at the University of Florida has been a tremendous factor in the development of the commonwealth and that without these investigations the potential resources of the state would not have and could not have been developed to their values as of this time. It is clearly indicated that the University has served the state well, that its limitations have been those necessitated by force of circumstances, and that it can from this time forward render a service to the state many times greater than it has in the past. The state cannot progress except on the basis of research and education and the University is prepared to lead the way.

The placing of exact values upon research is not easy. In some cases the values are tangible and can be approximated readily while in others they are intangible and far-reaching. Values of this sort are cumulative, the results are an investment in the development of the state, they project themselves into the years to come, their effects are never-ending. The discovery of fundamental facts pertaining to soils, plants and animals, for instance, reaches down to the very basis of successful agriculture; it influences the results of the farmer's work indefinitely. Moreover, the finding of one truth leads to the discovery of another, so that the way is opened for further advancement.

Who can place a value upon the discovery that the application of copper to the soil would make the growing of crops on Everglades lands possible, where without it agricultural crops could not be grown? Without these happy results from research, the State's efforts and the efforts of private individuals in that area would have come to nought; with it, the potential agricultural wealth of the Everglades, a vast resource, can be developed. The results from this single piece of research work will return to the State all the money spent or that ever will be spent on research.

Studies initiated in the field of economics and the social sciences are of vast importance to Florida. The problems pressing for solution are vital to the welfare of the commonwealth. Nowhere else can they be solved so well as at the University. So far as the outcome of an investigation is concerned it is a disinterested party; it is devoted solely to finding the truth, to developing the facts. Only in this way can the proper solution of problems of taxation, of assessments, of tax districts and of government, for instance, be found.

Research in pharmacy has gone far enough to indicate the pharmaceutical resources tied up in Florida's native plant life. These natural resources can be and should be developed. This can take place only through properly supported and directed research. It is a virgin field from which much wealth may be secured.

Chemical investigations of Florida's water resources are fundamental to their development and to their uses in many ways. As the state's population increases, the values of the work done in this field will increase.

Florida needs more, not less, research at its university and this research should cover the widest possible field.

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RESEARCH IN THE FIELD OF AGRICULTURE

In 1888 the Florida Experiment Station came into existence. From that time down to this it has been furnishing growers and agricultural workers of the state with helpful information. One can readily understand that in the beginning the Station made little impression on Florida's agriculture, and gave little assistance. Those associated with the work of the Station in those earlier days stood in a peculiar position, even as workers stand in large measure today, in that they were able to gain little knowledge and little assistance on their problems from outside sources, for Florida is a state peculiar unto itself, and information secured elsewhere or in other fields has very limited application here. But as the years have gone on the Florida station has gained strength, knowledge and momentum, until now it must be regarded as a real factor in the agriculture of the state and in its future development.

It is not possible within a limited space to call attention to all of the ways in which the Florida Experiment Station has been helpful to the agricultural industries of the state. At best, little can be done except to touch upon a few of the more important and perhaps more striking achievements.

Since its establishment, 248 Station bulletins and 444 press bulletins, touching almost every phase of the state's agricultural interests, have been published. In addition to these, 66 bulletins have been issued by the Agricultural Extension Service, supplementing those published by the Agricultural Experiment Station. The information contained in these publications has become so much a part of the daily work of growers and planters that the original source from which the information came or the research back of it has been entirely lost to sight.

For many years the work of the Experiment Station was centralized at one point; now, however, in addition to the main station at Gainesville, there is a branch station for citrus at Lake Alfred, a North Florida station at Quincy, a subtropical station at Homestead, and a station at Belle Glade for the Everglades, all working with and under the close supervision of the main station. There are field laboratories for the investigation of problems relating to special crops at Bradenton for tomatoes, Monticello for pecans, Plant City for strawberries, Cocoa for citrus disease investigations, Hastings for potatoes, Leesburg for watermelons and commercial ornamentals, and West Palm Beach for anaplasmosis of

cattle. The work of the station is handled through several departments: Agronomy, which has to do with field crops; Animal Husbandry, which looks after the problems connected with the production of livestock; Chemistry, interested in the problems of soil fertility and the wise use of fertilizers; Entomology, concerned with the control of insects attacking various crops; Horticulture, dealing with the problems of fruit and vegetable growing; Plant Pathology, which takes care of plant disease problems; Agricultural Economics, interested in marketing and in problems relating to farm profits; and Home Economics, which carries on investigations in the values of foods and the welfare of our rural populations. What the Experiment Station learns through its research workers is carried to the farmers of the state and their families through the Agricultural Extension and Home Demonstration Services.

The financial and economic structure of Florida today rests in large measure on agriculture in many of its numerous forms. From the very beginning this has been true, and it will always be so, for her future is inseparably tied up with the wise and proper use of land. The Florida Experiment Station, through its various activities, has had a large part in the agricultural development of the state, and the future advancement of the state's agriculture will come about largely through the activities of the Experiment Station.

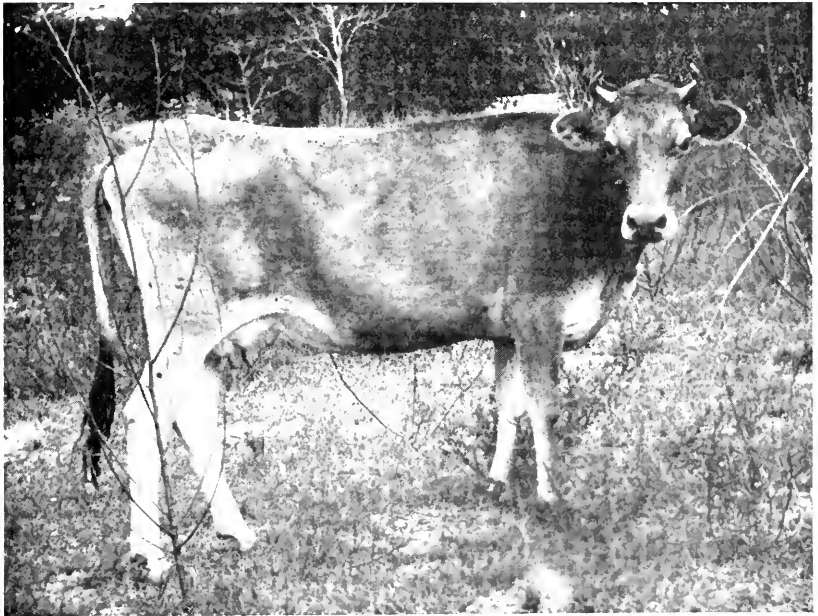
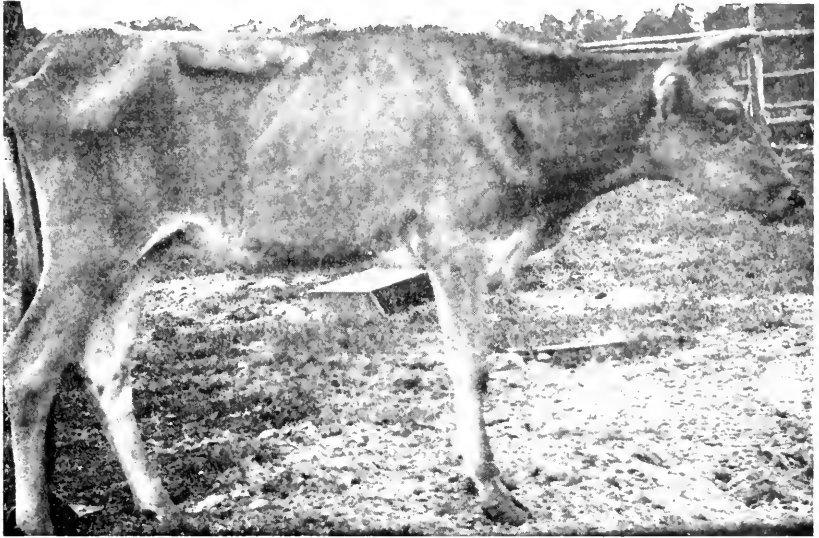
ANIMAL HUSBANDRY

The Department of Animal Husbandry has charge of all animal industry work such as dairy and beef cattle investigations, pork production studies, and poultry management. Florida has not yet come into its own in this field, and the department is earnestly at work on the problems of breeding, nutrition, management, and disease.

SALT-SICK

Salt-sick, an age-old problem in Florida cattle production, has been solved. It has engaged the attention of the Florida Experiment Station since 1888. In Bulletin 2, issued by the Station in 1888, is found the following statement by Dr. G. T. Maxwell:

"May 7th I was called to a sick calf belonging to Mr. Potsdamer of Lake City. It was 13 months old, and had been sick since November last—6 months—with what is locally called 'Salt-sick.'" This bulletin further states that "it is hoped that Dr.



A SALT-SICK COW BEFORE AND AFTER TREATMENT, AND RECOVERY.

Above—A mature cow suffering from salt-sick.

Below—The same cow after treatment and recovery.

This recovery is typical of the results made possible by research work on the cause and cure of salt-sick.

Maxwell, who has now undertaken the investigation of that singular cattle disease called 'Salt-sick,' and sometimes Texas Fever and cattle-plague, which seems to have prevailed slightly in special sections of our state, will not give it over until something more satisfactory shall be determined." However, Doctor Maxwell and many of his successors had worked on the problem before it was finally solved. This disease is known to exist in at least 44 of Florida's 67 counties and is taking an enormous annual toll either in deaths or in decreased efficiency of our cattle. Its cause, cure, and prevention have all been worked out. It has been proved to be due to a deficiency in certain mineral elements in soils and grasses. The use of copper and iron will prevent it and, if cases are not too far advanced, will cure it. Over three hundred head of affected cattle under range conditions have recovered when treated. This disease has been a serious drawback to the cattle industry, and in large areas of the state people have ceased to raise cattle because of the inroads of salt-sick. Now the way is open to begin again with the full opportunity for success in so far as this trouble is concerned. The solution of the problem is one of the outstanding achievements of the Station.

RANGE CATTLE

With the elimination of the fever tick as a cattle pest and the discovery of the cause and cure of salt-sick, the way has been opened up for the raising of range and beef cattle of better quality and along lines that promise greater return to the cattlemen. Moreover, competition in the meat markets of the country is on a different basis from what it was several years ago, because of improved methods of handling and transporting dressed meats.

Recognizing the need for careful experimental work in this field, the Experiment Station has laid plans for beef cattle studies, particularly in breeding and feeding. This is being done largely in cooperation with outside agencies, and what has already been accomplished has indicated the great value of this work to the beef cattle industries of the state. In cooperation with the Department of Agronomy, the carrying capacity and the beef producing values of the different kinds of pastures are being studied.

THE DAIRY HERD

In the work of improving the dairy herds of the country there has been set up by the dairy breed associations what is known



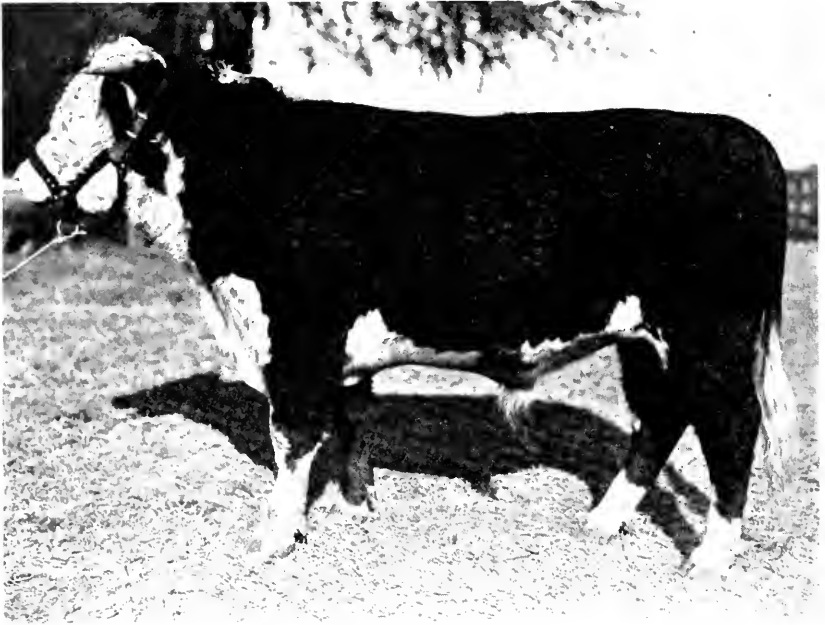
A HERD OF NATIVE RANGE CATTLE.

The quality of native Florida cattle must be improved to compete successfully in the markets. The Florida Experiment Station through its research work is rendering great assistance in the improvement of Florida Cattle.

as the Register of Merit, based upon the records of animals as milk and butter producers. The minimum requirement set by the American Jersey Cattle Club for the registration of Jerseys is that 250.5 pounds of butterfat shall be produced in 305 days by a two-year-old heifer. For each day that the animal is older than this at the start of the test, the requirement is increased one-tenth pound, until at five years of age the cow is required to produce 360 pounds of butterfat.

At the Experiment Station every cow in the dairy herd of Jerseys is given an opportunity on test to qualify during her first milking period and again at five years of age. To date, twenty-four cows in the Station dairy herd have qualified. Thus the Station dairymen have demonstrated that dairy cows of first rank can be bred, raised, and handled under Florida conditions.

The values of mineral matter, in particular, copper, iron, manganese, lime, and phosphorous, as related to reproduction and milk production in dairy and beef cattle are also being investigated. Only within comparatively recent years has the necessity for



REPEATER J. 25TH.
A Hereford sire used in studies on grading up native cattle.

mineral supplements been fully recognized. Since certain Florida soils are deficient in these materials, it is important that the part they play in animal functions be carefully studied. The results already secured at the Florida Experiment Station in this field of investigation are of great importance, and these, together with the results of future studies, will have tremendous influence upon the development of the state's cattle industries.

PORK PRODUCTION

That hogs can be raised free from intestinal parasites has been demonstrated for other parts of the country. Swine herd management adapted to Florida conditions, as worked out by the Department of Animal Husbandry, proves that hogs of medium meat type (the packers' type) can be raised free from these parasites. It has been proven that twenty-five percent more pigs can be raised to the litter, thereby adding some 100,000 pigs annually to Florida farms. Pigs so handled make rapid and uniform gains instead of remaining undersized and stunted. Recently a litter of



A TON LITTER OF HOGS RAISED BY THE EXPERIMENT STATION.

A litter of pigs that weighed 27 pounds at birth and 2215 pounds at six months, raised by the Experiment Station. This litter is proof of the value of breeding, feeding and sanitation as practiced and recommended by the Station.

pigs weighing twenty-seven pounds at birth was grown out to a weight of 2,215 pounds in six months at the Florida Station. The Department has shown further that it is entirely practical to raise two litters each year from a brood sow instead of only one. Closely associated with this work, and in cooperation with the Department of Agronomy, is the development of a system of raising field crops to supply grazing for each month in the year, finishing the animals for market in September and in March, when prices are highest.

SOYBEAN SILAGE FOR CATTLE

It has been found entirely practical to use soybeans alone in making a silage which is high in feeding value. A little over three pounds of soybean silage (moist weight basis) is equal to one pound of Federal grade No. 1 alfalfa hay. Since it is very difficult to cure hay of good quality in Florida because of an extended summer, an early fall rainy season, and the extreme humidity at all times, the working out of a method for satisfactorily

saving this valuable legume roughage is of material importance to Florida dairymen.

DISEASES OF LIVE STOCK

Manson's Eyeworm.—The life history of the parasite causing Manson's eyeworm in poultry has been determined. It was found that a certain species of cockroach was the intermediate host for the parasite. It was found that, by removing the droppings from the poultry houses regularly, the parasite could be controlled, since the cockroaches became infected by feeding upon the droppings. Poultry in turn became infected from eating the infected cockroaches.

Poultry Diseases.—Three to four hundred fowls are received at the laboratory each year for the diagnosis of various diseases. This work is of great importance because it keeps the Department in touch with the diseases that are more or less prevalent in the state and because these diagnoses and the recommendations based upon them undoubtedly save Florida poultry owners many thousands of dollars each year in preserving the health of foundation stock, laying birds, pullets, and baby chicks. By means of these diagnoses, certain specific diseases of poultry in Florida have been investigated, and it is estimated that contacts have been made with at least 500 poultrymen, to whom information in handling their flocks and controlling diseased conditions present has been given.

Internal Parasites of Poultry.—Very interesting and important results have been obtained from recent extensive studies relating to the parasites of poultry. It has been found that on the whole the use of vermifuges to expel worms is a useless procedure and that untreated birds handled exactly as those treated give a higher egg production. It has been demonstrated that worms may be controlled by sanitation and that this method should be followed rather than that of giving worthless medicines in attempting to remove worms. This finding will be of material benefit to poultrymen both in saving the expense of the medicine and in doing away with the decrease in egg production, which follows their administration.

Nutritional Diseases.—The nutritional disease known as salt-sick has already been discussed. Certain other nutritional diseases of the same nature are present in the state and are being investigated. Formerly the run-down condition of Florida cat-

tle, particularly toward the close of winter, has been attributed to the lack of feed and to the prevalence of Texas fever. There appears to be no question, however, that nutritional deficiencies are very frequently responsible. There is great certainty that the causes of these diseases will be worked out and that they will be brought under control. Definite progress has already been made. All of this will assist in placing the cattle industries of the state on a firm basis. The results of these studies when put into effect will be worth more than \$2,000,000 annually to the state.

Anaplasmosis.—How prevalent anaplasmosis was in the state prior to the clearing up of Texas fever in many sections is not known, but in all probability the latter disease masked the former. It is quite well established that anaplasmosis is caused by a microscopical blood parasite and that some insect or external parasite carries the organism from one animal to another. Investigations are now under way to discover the carrier, probably an insect or tick, and when this carrier has been found the investigation of control measures can be intelligently undertaken.

CHEMISTRY AND SOILS RESEARCH

When the Florida Agricultural Experiment Station was established in 1888, the Department of Chemistry was organized and from that time down to the present has rendered a great service to the state. From time to time its lines of investigations have changed to meet the needs of a developing agriculture until it has touched every phase of the state's progress in this direction. In the earlier years its work was concerned largely with natural resources.

Early Soil Studies.—In Bulletin No. 2, published in 1888, appeared the first analyses of Florida soils, both chemical and mechanical, made by the Department of Chemistry. Later these were followed by extensive studies of soils and mucks. Hundreds of examinations were made and reported, and these have in large measure formed the basis of our present chemical knowledge of Florida lands. Samples were collected over wide areas, and in consequence the soil information secured at that time applies to the state as a whole and has been of great value over a period of nearly half a century. The muck and peat deposits of the state have not as yet been appraised by the citizenry at their true worth, but the early analytical work is of value today even as it was when it was done.

Studies of Florida Phosphates.—Undoubtedly the early work of the Department greatly stimulated the phosphate mining industry in the state. Many analyses were published, 387 of them at one time in 1890, and these furnished the basis upon which in numerous instances early mining operations were undertaken; moreover, the manufacturing of phosphoric acid fertilizer materials was investigated and much information upon which both mining and manufacturing operations were based was supplied. It is difficult to place a definite value on this development except to state that the mining of phosphate rock since 1888 has amounted to over eighty million tons. In 1929, the last year for which figures are available, 3,088,298 long tons, having a value of \$9,901,704, were mined. The use of phosphatic materials as fertilizers, stimulated by the work of the Experiment Station, has also undoubtedly increased the production and value of crops to the farmers of the state.

Everglades Soil Problems.—When the drainage of the Everglades was undertaken it was believed, on the basis of the information in hand, that maximum crops could be produced on them,

but when they were drained and the growing of crops attempted difficulties were encountered. Nearly everything that was planted simply refused to grow. To solve the problems that arose, a branch station was established in the Everglades by an act of the Legislature, and immediately studies were undertaken to determine why the saw grass soils were not productive. As a result of these investigations it was shown that the use of copper sulphate and manganese would overcome the difficulties that interfered with the culture of plants. These two chemicals have now come into general and profitable use in the growing of crops in the whole vast area. It is safe to say that practically every ton of commercial fertilizer shipped for use in the Everglades and like areas carries in it the quantity of either or both copper and manganese necessary for crop production when applied to the soils. By the use of these materials the area that can be profitably cultivated in the Everglades may be increased to one million acres or more and the difficulties encountered in growing crops on them overcome cheaply. It is difficult to estimate the tremendous value of this work to the State of Florida.



EVERGLADES PASTURE STUDIES.

Devon cattle on Centipede pasture at the Everglades Experiment Station. The carrying capacity of pastures in this area is remarkable.



CORN GROWN ON RAW EVERGLADES SOIL.
The plants at the left were produced on copper treated soil, those at the right on untreated soil. Both were planted at the same time.

The Value of Manganese.—In cooperation with the Federal Department of Agriculture, experiments carried on in the Homestead section have shown that the use of 50 pounds of manganese per acre will take the place of stable manure previously deemed necessary for the production of crops grown in that area. As the cost of stable manure was steadily increasing, and the quality decreasing, doing away with its use has meant a large saving to vegetable growers. The chlorotic conditions affecting the growth of many crops in other sections has also been overcome by the use of manganese. Since these discoveries there has been a tremendous increase in the acreage devoted to truck crops, with a corresponding increase in the returns to growers.

Citrus Fertilizer Investigations.—During the period from 1905 to 1920 the first extensive citrus fertilizer experiments were undertaken, and the results of ten years of experiments were published in 1919. More intensive soil studies were also begun during this period, the object being to determine the loss of fertilizers sustained through leaching rains, and the part played by organic matter in the soil. During this period also the first soil tanks were installed at the Experiment Station. These tanks were the second of such tanks to be installed in this country. Since that time the value of such equipment in the study of fundamental soil problems has become so well established that similar equipment has been installed in a large number of experiment stations.

Experiments with sources of nitrogen on citrus have shown that inorganic sources of nitrogen which cost much less than organic sources can be successfully used. If these findings were closely followed by all of the citrus growers the saving in cost of fertilizer would closely approximate \$300,000 a year. Experiments with citrus, tomatoes, and celery, comparing muriate and sulphate of potash as sources of potash, indicate at present that the muriate can be successfully substituted for the sulphate. As the muriate sells for approximately \$10.00 per ton less than the sulphate, there will be a saving to the growers of approximately \$159,000 for citrus, \$51,000 for tomatoes, and \$80,000 for celery in their fertilizer bill if further work bears out present indications. Extending these experiments to other crops might mean similar savings to the growers. Likewise, work with amounts of potash on citrus indicates that fifteen units of potash per year are sufficient to produce good crops, instead of the 18 to 20 units generally used.

Analyses of Citrus Fruits.—As early as 1891 analytical work on the orange was undertaken. This was followed by much more extended analyses at a later date. These studies covered specific gravity, chemical composition, sugar, acid, solids, and juice content. In conjunction with other studies, they have been used as the basis of fruit maturity legislation.

Investigations in the waste products from citrus canning plants have resulted in finding improved methods for extracting pectin. As a result of these studies it has been determined that there is a difference in the quality of the pectin derived from different kinds of citrus fruits.

Studies at present under way on the glucosides (the bitter prin-

ciple) of citrus may ultimately lead to the finding of new uses for these substances, thus opening up a new source of revenue to the citrus grower.

Cover Crops.—Studies of the use and benefits to be derived from the use of cover crops in citrus growing have indicated that the best way of handling these crops is to mow them and allow them to remain on the surface of the ground, thus cutting down the cost of grove operations through the elimination of plowing and frequent harrowing. The present indications are that by using sufficiently large amounts of organic matter an improvement in the quality of the fruit will result as well as a better utilization of the rainfall and a reduction in the loss of fertilizer through leaching. The saving in dollars and cents of these studies to the citrus growers of the state would be difficult to estimate, but the amount is very large.

Forest Soil Research.—Studies now under way in cooperation with the United States Forest Service and the Florida Forest Service on the effect of different methods of handling forest areas and the effect on soil and the growth of grass and pasture plants will, if carried to final conclusion, greatly influence the future development of forest areas, to the betterment of both the state and the individual owner.

ENTOMOLOGICAL RESEARCH

Because of Florida's geographical location and its climatic conditions, insects of many kinds occur, numbers of which are injurious to man, his animals, and the crops he grows. The situation here is quite different from that in northern locations in that insects in most parts of the state are active throughout the year. Moreover, the methods depended upon for control elsewhere can not as a rule be used without modification. Modified or new methods must be worked out in dealing with the situation. In consequence, entomological studies are of paramount importance, and the results of investigations of insect pests secured by the Florida Experiment Station Entomologists have made possible the continued and profitable production of many of the state's most important crops. Insect studies were undertaken at an early date, and a vast amount of assistance has been given in overcoming their inroads. Time and again the very life of certain agricultural industries has been threatened. But the difficulties have been successfully overcome and the threats removed. It will be practicable to mention only a few of the more important instances where the Station has pioneered in the control or eradication of these insects.

CITRUS WHITEFLY FUNGI

About 1885 a small, white-winged insect was found congregating in great swarms in Florida citrus groves and playing havoc with tree and fruit. In 1893, a station worker discovered a high mortality of these whiteflies at Crescent City. He made careful post-mortem examinations of the flies and found that they had been killed by a fungus enemy. From this discovery developed the idea of controlling this insect by the use of fungi. It is believed that the Florida Experiment Station is the first organization in the world to make large orchard use of fungi in insect control. Two of these friendly fungi, Red *Aschersonia* and Yellow *Aschersonia*, are now being grown on artificial media and disseminated over the Florida citrus area by the State Plant Board. These friendly fungi are most effective in controlling the destructive whitefly pest.

COTTONY CUSHION SCALE

Another insect to threaten the citrus industry was the cottony cushion scale, first located in the vicinity of Clearwater.



A FUNGUS THAT DESTROYS WHITEFLIES.

A culture of Red Aschersonia fungus used in fighting whiteflies. The fungus mixed in water is sprayed on infested trees. The method of growing this fungus was developed by the Florida Experiment Station and cultures are available in quantity from the State Plant Board.

Spraying operations to combat this insect were not found practical. A worker in the Experiment Station imported the Australian ladybeetle into Florida infested groves and found this ladybeetle, commonly called *Vedalia*, effective in controlling the cottony cushion scale. In recent years the Florida State Plant Board has been sending out *Vedalia* to newly infested areas, with the result that this dangerous scale pest is being checked or eliminated at small cost to the grower. This service has been worth many hundreds of thousands of dollars to the citrus industry.

CITRUS APHID

It is estimated that the citrus aphid damaged the citrus industry to the extent of \$4,000,000.00 in the spring of 1925. The Department of Entomology studied the habits and life history of this insect to determine how it might be controlled. It was found that dusting under proper atmospheric conditions was very effective and economical. A repetition of the 1925 damage is very improbable.

STRAWBERRY CRIMP

The strawberry crop in Florida is an important one, representing a gross return to the state of between \$2,730,000 and \$3,969,000 annually. One of the most serious diseases that has occurred in connection with this crop is that known as strawberry crimp. A field laboratory was established near Plant City for the study of this and other strawberry diseases and a plant pathologist placed in charge. The result of this has been that the cause of and the remedy for strawberry crimp have been worked out. It has been shown that the disease is due to a nematode, or minute worm, that is carried over from one season to another and introduced into new plantings in infested plants. The value of disease-free planting stock has been determined and, whether new plants are secured from without or from within the state, growers now know that the freedom of their plants from crimp will be governed by the use of healthy planting stock. Thus, a major disease of this crop has been overcome.

ASPARAGUS MITE

Five years ago, the growing of asparagus ferns in Florida, a farm crop worth a million dollars annually to the state, was seriously threatened by a new pest known as the California or two-spotted mite. After two years of experimental work, a cheap and effective means of control has been developed.

CELERY LEAF-TIER

A practical and economical means of control of the celery leaf-tier has been worked out by the Experiment Station and the State Plant Board. This insect has in occasional years been a serious menace in the Sanford celery area. First, by the use of pyrethrum dust, and later, by the use of the fluosilicates at a saving of about one-half the cost of pyrethrum, it was found that this insect could be controlled.

MOLE CRICKETS

Mole crickets have been one of the most annoying pests in Florida truck farming, with no satisfactory control method known. Within the past two years, the Experiment Station has discovered that by substituting egg mash for bran in the ordinary grasshopper bait a very effective poison is obtained. This discovery will enable growers to use lands again which were practically abandoned because of the activities of this pest.

MEALY BUGS

Mealy bugs have always caused considerable loss to growers of bulbs and in some years have been serious pests in citrus groves. The control of this insect by spraying is difficult. The Experiment Station has secured and bred ladybeetles which will feed upon the mealy bug, and the value of these ladybeetles has been demonstrated as a practical control method. These same ladybeetles are also helpful in controlling the citrus aphid.

Some of the other injurious insects for which the Experiment Station has been instrumental in working out effective control measures are the pecan shuckworm and pecan thrips, the latter having inflicted severe losses at times, especially on tomatoes and citrus.

FIELD CROP RESEARCH

The work of the Department of Agronomy in the Florida Experiment Station is concerned with the production and improvement by selection, breeding, and testing of corn, cotton, peanuts, hay, soil improvement, pasture and grazing plants. To it, the state looks for leadership in the development of farm crops and it is worthy of note that our knowledge of such plants, for instance, as velvet beans and crotalaria and such grasses as centipede, Bahia, napier, Dallis and Para, has come from investigations carried out by the Florida Experiment Station. For many years extensive testing grounds have been maintained in cooperation with the Bureau of Plant Industry, United States Department of Agriculture, for the testing of grasses and other forage crops of possible value. In the making of good lawns, in the establishment and improvement of good pastures, whether on farm or range, in the uses of cover crops, and in the improvement of field crops, the Station has rendered a distinct service.

PERMANENT PASTURE STUDIES

Since good permanent pastures are of paramount importance in beef cattle production, this Department has been cooperating with the Animal Husbandry Department in ascertaining the most satisfactory grasses and legumes to be grown on various soil types. Carpet, Bahia, Dallis, Para, Bermuda, centipede, and lespedeza have been found suited for specific locations. In these improved pasture studies native grass pastures have been used as checks. Steers that grazed for an average of nine months on improved pastures made gains of 251 pounds of beef per acre and these pastures carried one steer to an acre. On the native range pastures, by allowing approximately 17 acres per steer, the gain during the same period averaged about 11 pounds of beef per acre.

Time and methods of planting pastures have been well worked out. Investigations show that closely grazed or frequently cut pasture grasses maintain a continuous vegetative growth because the residual leaf area, not removed by grazing or cutting, elaborates sufficient organic foods for vigorous vegetative growth. Pasture grasses not properly grazed go to seed, cease vegetative growth and are unproductive. Chemical analyses of the mineral constituents of the various prostrate growing pasture grasses indicate that frequently grazed grasses contain 100 percent more phosphorus and potash than grasses not closely grazed. This higher mineral content is a valuable factor for the proper nutri-

tion and body building of grazing cattle. Lysimeter studies of pasture grasses grown on Norfolk sand demonstrate that frequently cut grasses utilize fertilizers economically, while a large percentage of the fertilizers applied to grasses grown to maturity is lost through leaching.

During the 1930-31 season, 35,000 pounds of seed of improved pasture grasses were planted on 4,000 to 5,000 acres in Florida.

NEW CROPS INTRODUCED

The Agronomy Department of the Experiment Station, in cooperation with the Forage Crops Office, U. S. D. A., has introduced and disseminated in Florida: velvet beans, crotalaria, Austrian peas, monantha vetch, hairy vetch, centipede grass, Bahia grass, Dallis grass, lespedeza (Japan clover), napier grass, Japanese and cayana 10 sugarcane, pigeon peas, and kudzu.

VELVET BEANS

Velvet beans were first noticed by a member of the Experiment Station as a trellis or porch vine about 1895. Some seed was obtained from Mr. A. P. Newheart, of Ocoee, Florida, where it had been used about 20 years as an ornamental. A quarter of an acre



A FIELD OF VELVET BEANS.

This crop was developed by the Florida Experiment Station. It is estimated that from 75,000 to 90,000 acres are now planted annually in Florida.

was planted at Lake City on poor soil with good success. The economic value and use of this crop were worked out by the Station and some of the important varieties were originated here by crossing. Velvet beans are grown on some 87,000 acres of Florida lands annually and produce seed and forage for feed and land improvement of inestimable value to the state. In nitrogen gathered and vegetable matter furnished, this crop is worth in excess of a million dollars annually in Florida.

CROTALARIA

The use of crotalaria as a fertilizing and soil improving crop has been increasing at a tremendous rate in recent years. The crop is now being produced on from 50,000 to 75,000 acres of Florida land. Florida-produced crotalaria seed (1931 crop) had a value of \$120,000, and it is estimated that the combined organic matter, nitrogen, and seed value of this crop is well over one million dollars annually. Through the efforts of the Florida Experiment Station, in cooperation with the United States Department of Agriculture, this valuable crop has been spread widely over the state.



CROTALARIA—A SOIL IMPROVING CROP.

Few plants surpass *Crotalaria spectabilis* in vigorous growth or in amount of vegetation produced on an acre. Research work at the Florida Experiment Station has demonstrated the great value of this crop to the State. Three-quarters of a million dollars worth of nitrogen from the air were put into Florida soils by this crop in 1931, and an equal amount in value was added in vegetable matter.

VETCH AND AUSTRIAN PEAS

As a result of the work of the Experiment Station, 150,000 pounds of vetch and Austrian pea seed were planted on 6,000 acres of West Florida lands in 1931. This combination cover crop is proving a great soil improver and increases the yields of corn and other crops appreciably without the addition of commercial fertilizers. This work has been furthered greatly by the Agricultural Extension Service, and its potential value in the general farming areas of West Florida is very great.

SUGARCANE CAYANA 10

Cayana 10 sugarcane, a variety originated by the U. S. Department of Agriculture and which resists mosaic and root-knot, has been widely tested by the Florida Agricultural Experiment Station and is replacing old types of cane for syrup in West Florida. As a result of crossbreeding many new varieties have been originated at the Everglades Branch Station; these, together with other canes, are now under test for all-round value, not only for the Everglades but for the smaller farms of Florida.



AN EXPERIMENTAL CROP OF SUGARCANE.

Sugarcane both in southern and in northern Florida is a valuable crop. The Florida Experiment Station found that Cayana 10 is resistant to mosaic and root-knot, two serious sugarcane diseases.

PEANUTS

Variety tests of peanuts show that Florida Runner and Spanish are the highest yielding varieties for Florida conditions. Closer spacing of peanuts has shown that yields can be increased from 100 to 200 pounds per acre. Proper spacing for each variety has been carefully worked out by the Station. Breeding is under way to secure new and better varieties.

CORN

Varieties of corn have been discovered that will yield approximately 25 percent more grain than the varieties now in common use on Florida farms. The average annual production of corn on Florida farms from 1929 to 1931, inclusive, was 6,122,000 bushels with an estimated farm value of \$4,689,333. It can readily be seen what the use of these improved seed varieties by Florida will represent in new wealth. An increase of two bushels per acre will add \$500,000 to the annual value of the corn crop.

COVER CROP STUDIES

Decomposition studies on *crotalaria striata* at different growth stages show varying results. In the early vegetative stages it decomposes rapidly because of its higher nitrogen content and lower percentage of carbohydrates and fibrous material. If a rapid accumulation of soil nitrogen is desired, as in the case of truck crops, the *crotalaria* plant should be incorporated with the soil in its early growth stages. If, on the other hand, a retarded accumulation of soil nitrogen is required, in order that the crop can make use of it in the spring months, the plant should be in the advanced stages of growth before being incorporated with the soil.

Florida farmers are rapidly utilizing the *crotalaria* plant as a source of soil organic matter and nitrogen. In the better soils of the truck crop areas, one acre of *crotalaria* will yield from two to three tons of dry material top growth. This top growth will yield from 80 to 120 pounds of nitrogen, or the equivalent of 533 to 800 pounds of nitrate of soda.

LAWN GRASSES

Suitable grasses for year-round lawns, and problems in connection with the growing of lawns, have been worked out and made available. It is estimated that a good lawn will add from \$50.00 to \$200.00 to the monetary value of a home, in addition to the aesthetic value.

HOME ECONOMICS RESEARCH

Research in Home Economics covers the field of human food, clothing and shelter. These lines of investigation, made possible by Federal appropriations, have only recently been undertaken by the Agricultural Experiment Station, Department of Home Economics. Already, however, this work has progressed far enough to indicate its great value. Attention over many years has been given to the welfare of animals and plants. How much more important is it that the welfare of human beings should receive attention!

NUTRITIONAL STUDIES OF FLORIDA CHILDREN

Physical and laboratory examinations were made by Station workers of 3,325 white school children in five Florida counties. These findings were correlated with the progress made in school by these children and with studies of their diets.

In the rural schools of certain sections of the state more than 60 percent of the children harbor hookworms. Of the children who repeated a grade in their school work, 95 percent were hookworm subjects. This is significant from an economic standpoint when the additional cost to the state for grade repetitions is considered. The real significance of this study, however, is its bearing on the health of Florida boys and girls. Hookworm can be controlled as soon as the united effort is made, similar to the work of eradication of the cattle tick and other disease carrying parasites of the lower animals.

It was also found in this study that over 30 percent of the children were not receiving the proper foods for development and growth. This condition was not due to their being economically unable to secure proper food, but to lack of knowledge as to what constituted a balanced diet. It has been demonstrated further that children receiving a proper diet are much less susceptible to hookworm infestations.

VITAMIN STUDIES

Station workers have found that carotin can be used as a source of vitamin A. This indicates that any one of the yellow pigmented vegetables can be used as a source of this essential vitamin.

PRESERVATION STUDIES

Pecans.—It has been found that pecans canned in vacuum, in an atmosphere of nitrogen or of hydrogen have a pleasing taste one year after canning.

Sweet Corn.—A study has been made of the organisms causing the spoilage of canned sweet corn. Suggestions and recommendations have been made which should eliminate a high percentage of this spoilage.

Citrus Vinegar.—It has been found that a very good grade of vinegar can be made from oranges, grapefruit, and other types of citrus fruits. This indicates another means of using the citrus crop when there is a surplus.

HORTICULTURE

Because of the large number of horticultural plants grown in Florida, the work of the Department of Horticulture covers a very wide field. When the great extent of the state is considered in connection with the diversity of the soils, some realization of the great number of problems handled can be gained. The work of the Department covers the growing of tropical fruit crops as well as those of more temperate areas. It deals with truck crops of many kinds and ornamental plants, both commercial and aesthetic, in endless variety. Even the answering of correspondence of this Department is a task of no small magnitude. Among the lines of work that have been carried on and are now under way the following are interesting:

TUNG-OIL

The present commercial plantings of tung-oil trees in Florida, now amounting to about 10,000 acres, are directly traceable to the initial plantings made at the Florida Experiment Station and



TUNG-OIL—A NEW CROP FOR FLORIDA.

A tung-oil tree in full bearing. Due to the research work by the Experiment Station of the University of Florida, tung-oil plantings have increased until now more than 10,000 acres of orchards have been planted.

the work done there. Early tests indicated the trees' adaptability; later work has included variety selection, fertilization, propagation, soil studies, cover crops, mulching and cultivation. An oil expressing plant has been erected by private capital, and growers now have a cash outlet for their product. This is claimed to be the only modern tung-oil extraction mill in the world. The first tank car of tung-oil was shipped from Gainesville in April, 1932. A new crop that causes little competition with other products of Florida soil has come into existence through the efforts and encouragement of the Florida Station. Tung-oil is used in the making of varnishes and paints, as well as in the manufacture of oil-cloth and linoleum and for many other purposes. Importations in 1929, principally from China, reached a value of \$14,972,000.00. It appears probable that domestic needs eventually will be met by home production.

PECANS

When pecan investigations were first started by the Florida Experiment Station about 1900, there were very few budded or grafted orchards in the commercial pecan belt. The information



A PECAN ORCHARD IN NORTHERN FLORIDA.

Pecan orcharding is important in northern and western Florida. The investigations of the Florida Experiment Station have materially helped in developing this industry.

gained through investigations carried out by the Florida Station has been largely responsible for the development of the cultivated pecan industry in northern and western Florida and in adjoining states. The production of pecan nuts in Florida has increased until it is now in excess of one million pounds annually. The largest yield so far obtained in this state was from the crop of 1928, about two million pounds. The growth and development of this industry has been very closely correlated with the pecan investigations of the Florida Experiment Station.

SOUR ORANGE ORCHARDING

Through cooperation with the world's largest manufacturer of orange marmalade, the suitability of Florida sour oranges in place of Spanish sour oranges has been established. This has brought about a demand for bright Florida sour oranges, and they are now being shipped from Florida in carload lots. This opens the way for the expansion of citrus production along an entirely new line.

AVOCADO STUDIES

Work at the Station on the composition and maturity of avocados has furnished the first large amount of reliable and complete information concerning the composition of Florida avocados and has opened the way to the development of a workable maturity standard. The relation of composition to the maturity of the fruit has been worked out for most of the standard varieties. The relationship of storage temperature to the keeping of avocados and the development of blackening in the pulp is being worked out, and the cause of much of the difficulty in the shipping of certain varieties has been determined. Thus, the Station work should result in the intelligent harvesting and handling of one of the most highly nutritious of fruits. Demand for the fruit is certain to increase when it reaches the buyer in the optimum condition for consumption.

FLORIDA ORNAMENTALS

Much work has been accomplished at the Florida Station in ascertaining the types and varieties of hedges, palms and vines that are adaptable for use in different sections of the State for ornamental purposes. This work has extreme monetary value to a winter playground state, such as Florida, aside from its aesthetic value. Several publications in this field have been issued on ornamental vines, lawns, native and exotic palms and hedges.

COLD STORAGE RESEARCH

In the winter of 1930-31 an experimental cold storage plant for the study of cold storage problems with sub-tropical fruits was completed and put into operation. The field of work has included studies on the freezing of orange juice and other sub-tropical fruits and their products, the cold storage of oranges, and the cold storage of grapefruit. Considerable progress has already been made in the identification of undesirable tastes in extracted orange juice, and this work is basic to much of the commercial application of freezing processes. The Youngberry has been found to be a very desirable fruit for frozen storage and basic work has been done on a number of other fruits, some of which show great promise for this field of merchandising. Studies on the cold storage of oranges have shown the great advantage of moisture-retentive wrappers in retaining the appearance and quality of oranges during storage. The studies have been particularly successful with the Valencia variety. Studies on the cold storage of grapefruit have been less markedly successful than those with oranges, but much progress has been made toward the elimination of pitting, the prevention of internal breakdown, and in cutting down decay. The development of successful methods of cold storing citrus fruit would not only be a valuable aid in lengthening the marketing season but would also operate to improve the methods of handling fruit on long haul shipments, as to foreign countries. Considering the location and climate of Florida, together with its seasonal production, this line of work is of tremendous potential value.

PLANT INTRODUCTIONS

When it is remembered that Florida's agriculture is based almost entirely upon exotic or introduced plants, to some extent the value of new plant introduction can be recognized. A single new plant or a new variety of an old one may add hundreds of thousands of dollars annually to Florida's agriculture. The testing of plants new to the state has been going on at the Station for many years. For instance, in the field of agronomy, it was in this way that the value of the velvet bean, the two crotalaris (*C. striata* and *C. spectabilis*), Centipede, Bahia and Dalliss grasses was discovered. Each of these is now filling an important place in the agriculture of the state. This work of testing new horticultural plants and introducing them as crop plants is going forward at the main station at Gainesville and at the branch

stations at Lake Alfred and Homestead. The results will be of great value to the state in the future even as this sort of work has been in the past. Some of this work is being done independently and some is in cooperation with the United States Department of Agriculture. New plants and crops will play a large part in increasing the production of lands now in cultivation and in bringing into cultivation lands not adapted to species or varieties of plants now available.

GENERAL ACTIVITIES

A great deal of help has been given by members of the Department to growers of horticultural products in the state and to prospective settlers. The correspondence has been extremely heavy, amounting to around 4,300 letters per year, and, in addition, a number of bulletins have been issued giving information on the culture of various horticultural crops including persimmons, blueberries, papayas, miscellaneous tropical fruits, tung-oil, strawberries, and pecans, and on citrus propagation. A number of papers have been published in various magazines covering the culture of many other fruits. The work of collecting and correlating data on various crops to the end that those attempting to grow them shall have the best possible advice is a line of research that has been worth thousands of dollars to those interested in Florida horticulture.

PLANT DISEASE RESEARCH

Research in the field of plant diseases is carried on by the Department of Plant Pathology of the Experiment Station. In the main the work covers four branches: diseases of truck, fruit, farm, and ornamental crops.

The investigation of truck crop diseases has been going on continuously almost since the Station was established in 1888, and the accomplishments in this field have been of untold value in solving the problems encountered by growers. At this time the truck crops produced total approximately fifty thousand carloads annually, with a value approaching forty million dollars. It is not too much to say that the plant disease investigations of the Experiment Station are saving millions of dollars annually to the truck growers of the state, and some crops could not now be produced at a profit were it not that the life histories of plant disease organisms were studied and methods of control developed. These methods have become a part of standard cultural practices.

Equally important is the work that has been done on citrus diseases, and the knowledge now employed in handling these troubles has originated in large measure in the Florida Experiment Station. These investigations are going, and must still go forward, in the interests of citrus production. The annual value of the citrus crop exceeds that of the state's truck crops.

It is possible to call attention to only a few of the more important investigations carried on by the Department of Plant Pathology.

TOMATOES

The tomato, with an annual average value of about nine million dollars, has the highest gross return to the state of any truck crop produced. It is susceptible to a number of serious diseases that have received the attention of Station pathologists for many years. The first publication on tomato diseases appeared in Bulletin Number 18, in 1892. The value of tomato disease studies is best exemplified by the results secured in the control of Nail Head Rust. In an effort to find a tomato resistant to wilt, another serious tomato disease, the Marglobe variety was developed by the United States Department of Agriculture. In working on the problem of Nail Head Rust, Florida investigators found that variety to be practically immune to the disease. Since 1927 the Marglobe has been grown almost exclusively and Nail Head



TOMATO DISEASES OVRICOME A FIELD OF RESISTANT PLANTS ABOVE; SUSCEPTIBLE AND DISEASD PLANTS BELOW.

A field of tomatoes resistant to Nail head Rust. The plants are healthy, productive and profitable, while the non-resistant ones below are almost a complete failure. This is a striking example of the results that come from careful research at the Florida Experiment Station.

Rust has ceased to be a disease of importance. At the present time breeding experiments are going forward with the object of securing varieties resistant to *Fusarium* wilt and other serious tomato diseases that take their toll of the crop annually.

WATERMELONS

Measured in carloads, of which nearly ten thousand were produced in 1929, the watermelon crop is one of the largest, if not the largest, produced in the state. Whenever watermelons are grown on the same piece of land for more than a season or two *Fusarium* wilt makes its appearance. So severe are its inroads on the stand of plants that it becomes unprofitable to use the land longer, and to avoid heavy losses the growers are under the necessity of securing new locations. This has made it necessary to open up new areas farther removed from the usual shipping centers at increased expenses for clearing, haulage and other items. Hence production costs have mounted steadily. In 1929 a plant pathologist was assigned to study this disease; as a result of this work three varieties of watermelons of excellent quality, resistant to the wilt, have been secured by breeding and selection. It remains to fix these varieties so they will come true to type from year to year when grown from seed. However, the foundation for the solution of this problem has been laid and we may look forward confidently to the time when this serious watermelon disease will no longer affect adversely the production of this crop. The solution of this disease problem will be of great financial benefit to the watermelon growers of the state.

TOBACCO

In parts of West Florida the growing of high priced wrapper tobacco under shade is an important industry, the crop having a gross annual value of approximately \$2,250,000. By 1921 serious diseases had invaded tobacco seed beds and fields. When called upon for assistance the Florida Experiment Station determined that the most serious of these diseases was black shank, due to the presence in the soil of a parasitic fungus, and undertook to produce varieties of tobacco resistant to it, since it could not be controlled except by the difficult and costly method of sterilizing the soil with heat. Two varieties of tobacco, numbers 94 and 301, resistant to black shank and having leaves of excellent commercial quality, were originated by the Station and these are now grown almost exclusively. This is an outstanding example



DISEASE RESISTANT TOBACCOS.

This illustration shows the results secured by the Florida Experiment Station in breeding resistant strains of tobacco. All the ground is infected with *Fusarium* fungus. The susceptible tobacco in the center has gone down under its attack. The resistant tobaccos on either side are not affected.

of the value of carefully directed research when applied to an apparently insurmountable problem. Had success not attended these efforts it is probable that the shade tobacco industry of West Florida would have been wiped out.

POTATOES

For several years the Experiment Station has maintained a field laboratory for the investigation of potato diseases at Hastings. Several diseases from year to year had taken a heavy toll of the crop, reduced the quality of the product, and decreased the returns to the growers. It has been definitely shown by the pathologists in charge that these potato diseases can be controlled or eliminated by spraying and by using seed free from disease. It was pointed out that Florida's potato troubles are due in large measure to the use of diseased seed, and in consequence it has become necessary for the producers of seed potatoes in northern sections to give greater attention to the production of disease-free seed potatoes. As a result of this the seed fields, from which come Florida's supply of seed potatoes, are subjected to careful inspec-

tion and the seed potatoes of high quality brought into the state are certified as being free from disease. Seed of first-class quality is now available for the use of Florida planters, greatly to their advantage. The Florida potato crop is valued at approximately five million dollars annually, and the work of the field laboratory at Hastings has resulted in material reduction of losses from various potato troubles.

CITRUS BLIGHT

As early as 1887 citrus growers in the Indian River section of Florida were losing many citrus trees from what they termed blight. Recently a Station investigator has determined that this trouble was not caused by a disease but that the trees died from lack of water or plant food or both. Groves planted in favorable locations or supplied with proper food, water, and organic matter have been shown not to be affected. The fear that blight is a contagious disease has been removed.

MELANOSE AND STEM-END ROT OF CITRUS

Melanose was not known to literature until 1896, when it was described from Florida as appearing in certain scattered plantings. About 1912 a Station investigator discovered that the disease causing decay in packing houses and in transit and known as stem-end rot was caused by a fungus parasite. Several years later it was found that this same fungus parasite was also the cause of Melanose. It was found that by proper pruning, clearing out, and destroying of dead wood in citrus trees that these diseases could be controlled. Later, it has been found that by applying bordeaux-oil emulsion as a spray shortly after blooming time a greater saving at a lower cost can be attained.

CITRUS DISEASES

Citrus trees are attacked by a number of different fungus diseases. The life history of these diseases and the methods by which they may be controlled have been worked out. As a result of these studies the handling of the disease situation in the citrus groves of the state has become a part of routine practice. In no direction has the Station rendered a greater service than this.

CHEMICAL RESEARCH

Although heavy teaching loads have necessarily retarded research, a considerable amount has been done as a result of the interest and enthusiasm of members of the Department, who have devoted much of their outside time to the field of research. At the present time the graduate work is growing rapidly and graduate students are engaged in different lines of research for their own training and to add to our knowledge of different problems.

Obviously, it is practically impossible to place a monetary value on teaching and pure research. Practically every commercial product which is now available owes its birth and success to pure research, which has frequently been done without the idea of commercial development.

The following is a general outline of research work completed or in progress at the present time by members of the Department of Chemistry. In a few cases some of the work was done by these men before they came to the University of Florida, but this work or some phase of it has been continued at this institution. Reports of a number of these research problems have been published in various journals, and some of these projects have been developed to the extent that they have been put into practical application.

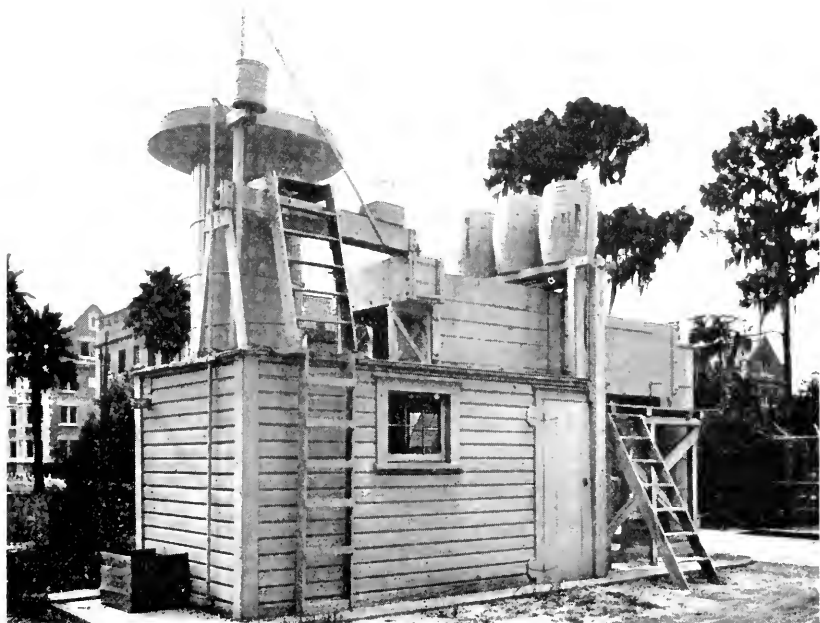
LEIGH FOG SCREEN

The Leigh fog screen device, developed by Dean Townes R. Leigh, makes it possible to form, in a few minutes, an impenetrable white cloud several miles long. Certain gases are utilized in the formation of this fog screen, which can be produced at any desired rate of speed. The fog itself is harmless to man and metals and does not irritate the eyes. These features are a decided advantage over those of many other fog screens. The mechanical portion of the device is so perfected that its operation in the distribution of the screen is quite simple. The practical value of this fog screen is obvious, although the actual value of any implement of warfare is difficult to estimate.

STUDIES OF WATER SUPPLIES

The furnishing of potable waters to the population of Florida, whether in town or country, is an important matter in the development of the state. From time to time, as urban populations increase, the finding of new sources of water supply will become increasingly important.

Water Supply of St. Augustine.—A complete water survey for the City of St. Augustine was made and an experimental treatment plant was placed in operation. In recognition of the value of this survey, the City of St. Augustine presented the experi-



A PLANT FOR STUDYING WATER PURIFICATION.

The plant used at the University of Florida for studies in water purification. This work is of great importance to the towns and cities of the State.

mental water plant to the Department of Chemistry. This plant is now used for research and for class studies in water treatment and purification.

Colorimetric Determination of Sodium and Potassium in Natural Waters.—Certain colorimetric methods for the determination of these elements have been adapted to water analyses. Originally these methods were proposed for and used in analytical work on soils and blood serum. The method is exceedingly sensitive and satisfactorily accurate.

Coagulants in Water Purification.—Results of these investigations should be of great interest and of great beneficial value to Florida. The average hardness of our underground waters is 300 parts per million, the fourth highest state average in the United States. All our surface waters are soft but dark colored. It is

far cheaper in a great many cases to remove color from a soft water than to soften a very hard one. In the United States Bureau of Mines publication dealing with Florida waters the prediction is made that in time all cities facing a choice between removing the color from soft surface waters and softening a hard one will swing to the use of the soft colored waters. With this in mind the importance of this research can be estimated. In this same connection a comparative study of alum and chlorinated copperas for the removal of color from the highly colored swamp waters found in the state has also been made.

STUDIES OF MINERAL RESOURCES

During the Summer of 1928 a study on the artificial coloring of Florida travertine was undertaken. Its purpose was to devise means of utilizing non-commercial sizes and shapes of the rock in the manufacture of novelties. This study was successfully carried through.

In cooperation with the State Geological Survey in an attempt to encourage the manufacture of brick, tile and pottery in the state, physical and chemical tests of Florida clays have been made. The series of clays for study was selected by the State Geologist. They were analysed chemically. The physical tests included a study of the behavior of the clays when fired or burned. These studies are being continued and results will be published in the reports of the State Geologist.

A study has been made of the variations in composition of the beach sands found on the Florida coasts. This work was done in cooperation with the State Geological Survey and the results have been incorporated in one of its reports under the heading "Beaches of Florida."

NAVAL STORES RESEARCH

In cooperation with the Bureau of Chemistry, United States Department of Agriculture, a study is being made of the various factors influencing the quality and quantity of resin and turpentine from long leaf and slash pine in Florida. The second year of this work has just been brought to a close and two additional years of work have been outlined on the same problem. Some of the factors being studied are age of trees, effects of close or open growth, temperature, rainfall, and the effect of atmosphere and of light on the gum. Twenty trees in three different sizes equally divided between the two species and as nearly matched as pos-

sible are being studied. This research when completed will yield a great deal of entirely new data that will be of value in the naval stores industry.

Analysis of oleoresin from high, medium, and low yielding pine trees and a checking up on the resin and turpentine content of these trees to determine whether any relationship exists between the constituents of oleoresin and tree yield is under way. A study of the layers of oleoresin which occur when it is allowed to stand for a period of six months or more is being made. Early indications appear to indicate a considerable difference of turpentine and resin obtained from these separate layers.

MISCELLANEOUS INVESTIGATIONS

Analyses of the ash of various meat and vegetable products have been made. These will furnish information of value in the studies of animal diets.

A new method for bleaching sponges has been developed which has distinct advantage over methods formerly in use.

Investigation of the effects of sea water on cement tiles has furnished information which may be utilized in the preparation of more resistant kinds of tile.

A series of experiments are under way which are planned to improve the quality of certain dental products and to decrease the amount of time required for their preparation.

PAINT, VARNISH, AND LACQUER STUDIES

Since Florida produces large amounts of naval stores and the production of tung-oil has been started, it is important that the uses to which these products are put and the methods of preparing them for use should be investigated. Studies in this field have been initiated by the Department of Chemistry of the University of Florida along several lines.

The Use of Tung-Oil in Spray Lacquer.—It was found that bodied tung-oil could be used in place of resins in spray lacquer and that the presence of the tung-oil increased the durability of the lacquer. The durability was determined by exposure tests on lacquers whose formulas differed only in the composition of the resin.

The Use of Tung-Oil in Brush Lacquer.—The results found were similar to those described above. A greatly improved method for bodying the oil was developed. Raw tung-oil dries with an opaque, wrinkled surface. Bodied tung-oil dries with a smooth,

glossy surface. The bodying process developed consists in heating the oil while bubbling air through it.

Manufacture of Varnish From Tung-Oil and Crude Turpentine Gum in One Operation.—This method avoids the expense of converting the turpentine gum into resin and also several handling changes. It should encourage the manufacture of varnish in Florida, where all the necessary ingredients, except driers, are produced.

The Use of Tung-Oil in Paint.—It has been found that tung-oil can replace linseed oil, wholly or partially, in paint making. Paints containing tung-oil were found to give films that are more glossy and durable than those containing only linseed oil.

Some Chemical Problems of the Florida Tung-Oil Industry.—The chemical procedures of the tung-oil industry awaiting solution include utilization of by-products of the pressing plant, such as hulls and press cake, development of new uses for the oil, study of polymerized oil which now has no important use, and the physiological action of the oil and nuts.

Manufacture of Ester Gum From Crude Turpentine Gum and Glycerine in One Operation.—This very economical method for producing high quality ester gum has been perfected and should encourage its manufacture in Florida and other southern states.

Painting Studies.—For the past seven years the Department of Chemistry has been cooperating with the Forest Products Laboratory at Madison, Wisconsin, in a world-wide study on the painting characteristics of various kinds of wood. Several thousand pages of data and comments have already been published on the work as a whole, and in all of these the Florida work is mentioned and illustrated. The data secured from this study have already been shown to be of great importance under our climatic conditions.

SERVICE MANUFACTURING

In connection with the operation of the University there is an accumulation of certain waste materials. The Department of Chemistry has turned some of these to good use. Waste grease in connection with rosin has been used in the making of good soaps for use in the laboratories and elsewhere at a lower cost than commercial soaps can be purchased. In cooperation with the Maintenance Department, cleansing and disinfectant agents have been produced at a cost greatly below that of the market for these materials.

PURE CHEMICAL RESEARCH

To the layman, investigations in the field of pure research may appear useless and unnecessary. Yet these lines of research, directed to the solution of fundamental problems, are responsible for scientific progress in many fields. Obviously, no forward step can be made without a knowledge of methods, technique, and reagents, and without the setting up of theories to be proved or disproved. Hence pure research has its well defined place in the advancement of chemical research.

In this field, the Department of Chemistry has been active. The following lines of investigation are noteworthy.

Acyl Derivatives of Ortho-Aminophenol.—About 40 new mono- and di-acyl derivatives of ortho-aminophenol have been prepared. These compounds are of particular interest in the study of molecular rearrangements, and, in addition to this phase of pure research, present the possibility of use as insecticides or anaesthetics. The toxic effect of some of these compounds is being studied at the present time by the Bureau of Entomology, United States Department of Agriculture, Honolulu, T. H. More of these compounds are being prepared, and the physiological effect of all of them will be studied.

Derivatives of Piperazine.—Experiments are under way involving the preparation and study of new derivatives of piperazine. These compounds will be tested for possible medicinal use.

Organic Compounds of Cerium.—Attempts are being made to prepare new organic compounds of cerium. The physical, chemical, and physiological properties of these compounds are to be studied.

Anthraquinone Derivatives.—This was a problem in organic chemistry of particular interest in the field of vat dyes. It resulted in the production of a new organic compound which may be used for dyeing cotton, linen, and rayon. Studies of other compounds of like nature are now under way.

The Use of the Nitrogen Grignard Reagent in the Preparation of Rubber Accelerators.—A number of new compounds have been prepared and tested as rubber accelerators. One of these compounds has been proven to be a very satisfactory high temperature accelerator, which, it is believed, will prove of great value in the manufacture of rubber.

Chemical Reaction of Turpentine.—The treatment of turpentine with aluminium chloride produces materials of a resinous

nature and the properties of the resin vary with the conditions under which the reaction is carried out. Experiments are in progress to study the effect of substituting for the aluminium chloride other compounds known to exercise similar properties in the Friedel-Craft reaction.

A study of the effect of various reagents on turpentine and on certain common derivatives of turpentine is also contemplated in the hope that new materials or products of value in the arts and sciences may be discovered. This field of research is very important to the State of Florida since the production of useful substances derived from turpentine will increase the demand for naval stores products.

Uses of Vanadium Salts in Analytical Work.—A study of vanadium salts has resulted in their use for new methods of chemical analysis for copper and other metals. These methods mark a distinct advance in this difficult field.

RESEARCH IN ECONOMICS AND SOCIAL RELATIONS

Research occupies a prominent position in the minds of men everywhere. It does not, however, denote a mysterious process; it is simply a method by which modern man attempts to find out something, to discover the facts, to draw conclusions therefrom, and to use these conclusions in the formulation of programs for human progress. Research, once considered of interest only to theorists, has become of interest to the practical man. Modern science has transformed the world, and everywhere there is a growing interest in the values of research. The social sciences as well as the physical and biological sciences have attacked almost every problem of direct or indirect concern to man. Whether in government or in industry, whether in religion or in education, whether in the domains of politics or in those of social relationships, the scientist has entered with his instruments of precision; if we are not already in a research age we are steadily approaching such an age.

The people of Florida have never made adequate provisions for research in the social sciences at the University. The functions of a university, says Abraham Flexner, are four: first, the conservation of knowledge and ideas; second, the interpretation of knowledge and ideas; third, the search for truth; and fourth, the training of students who will "carry on" civilization. The State of Florida has understood the last function and made provisions therefor, but it has only partially understood and accepted the other three functions. The State cannot make the progress to which its natural advantages entitle it until it is willing to spend its income to conserve and interpret knowledge and to search for the truth as well as to train students to "carry on" its civilization. While it is impossible, as has already been indicated, to calculate the money value of research in the social sciences, the expenditure of thousands of dollars on the search for truth as to the economic, social, and political structure of the state would bring back millions of dollars in public and private returns.

Since it is its function to discover and disseminate new knowledge, the University of Florida acts in a strictly scientific capacity. It is not interested in what should be done: it is interested in what is and why it is. Its faculty members, in studying economic, social, and political phenomena, are not controversialists;

they are scientists. When they become controversialists they cease to be scientists. Reform is desirable, but reform must come through legislative and other agencies. The University's task is to furnish these agencies with facts, with conclusions, and with generalizations.

The State of Florida cannot afford to ignore the benefits to be derived from expending funds for research in the social sciences. To hide from the facts or to act on opinions and prejudices is to muddle along. This state must know its disadvantages as well as its advantages. It must understand not only why it has made the progress it has but also why it has not made even greater progress. Scientific inquiry will prevent hasty, untried, and disastrous actions. Leaders as well as followers must be informed. To achieve this end the State must support research. To build a commonwealth in which people not only follow the coarser art of making money but also the finer art of living, respect for scientific research is essential. Spending money for the intangible values of social science research may be the safest road to realizing the State's destiny.

Need for Research in Economics.—The State of Florida needs research in economics, general as well as agricultural. It does not know with any degree of exactness what either its actual or potential wealth is. It does not know either its actual or potential income. No scientific studies have been made of the balance of trade that in certain directions, at least, runs against it. No comprehensive study has been made of fundamental natural resources, manufacturing, taxation, transportation, trade both domestic and foreign, finance and tourist facilities.

Need for Research in History and Political Science.—The State of Florida needs research concerning history and political science. Every state going through the processes of change such as those with which Florida has been faced for the past decade must be familiar with history. It must know what has been done in the past and what activities have been successful or unsuccessful. New laws must be based upon the interaction of existing conditions and must be tested in the light of experience. To place new legislation on the statute books or to bring about changes in state, county, or city government without a thorough knowledge of what other states and nations have done and what experiences other decades and centuries have had is to act with blindness. Of course legislative acts and programs that have been adopted else-

where would not necessarily succeed here. They must be adjusted to Florida conditions and be modified to suit Florida circumstances. None of these ends, however, can be achieved unless we utilize the fruits of science and secure all the light we can from other years and from other states and regions.

Need for Research in Sociology and Psychology.—The State of Florida needs research in sociology and psychology. This state as well as other states is faced with the complexities of modern living. No longer are its people pioneers pursuing their ends insulated from the rest of the world. Group living is the order of the age. Its problems, its conflicts, and its difficulties must be scientifically surveyed. Knowledge of similar problems and tasks in other states and regions must be available. Otherwise, methods of handling criminals and operating prisons, of caring for the delinquent and the improvident, of uniting groups and peoples for the common good, and of solving the multitude of problems facing this generation are likely to be disastrous in their applications or fall short of the desires of enlightened men and women.

Need for Research in Education.—The State of Florida needs research in education. Parents in Florida as well as in the nation as a whole are devotees to knowledge and enlightenment. Every year witnesses increasing numbers flocking to the institutions of higher education as well as to the secondary schools. What is to be done with them when they arrive? Where are the state, the counties, and the cities to secure funds for the education of these increasing numbers? What phases of education both secondary and university should be eliminated? What activities, not now engaged in but necessary, should be engaged in? These and a multitude of other questions educational research in Florida can and should answer.

Need for Research in the Social Sciences.—The value of research to the State of Florida in the various fields of social science is difficult to calculate. No one knows with accuracy the economic value of a scientific study of natural resources, of taxation, of manufacturing possibilities, of education, of government administration, of numerous related topics. The results of research in the social sciences do not have a direct marketable value. Their worth lies in the difference between acting on the basis of knowledge and acting on the basis of prejudice, opinion, and guess work. A few thousand dollars spent to save the state from costly errors and from traveling along blind pathways would be of immeasur-

able value even though that value cannot be reduced to definite monetary terms.

The salvation of modern civilization lies in more, not less, education. By education here is not meant formal education, but education that comes from knowing and appropriating significant facts. To solve the problems which modern civilization entails we must gather *all* the facts, interpret *all* the facts and draw valid conclusions therefrom upon which public and private action may be based.

The University of Florida, through the various colleges having jurisdiction over the social sciences, is vitally interested in the foregoing problems. Already it has made an appreciable beginning in the field of economic research. Two colleges especially have achieved worthy results in this respect, even though they have not had adequate funds for research purposes at their disposal. These two colleges are the College of Agriculture and the College of Commerce and Journalism.

Investigations in Agricultural Economics.—Investigations in agricultural economics have been in progress in the Department of Agricultural Economics of the University of Florida Agricultural Experiment Station since 1926. The studies have been directed toward finding ways and means whereby the net incomes of farmers of the state can be improved. The quickest known means of rendering this assistance to farmers is by finding what the incomes of farmers actually are and then analyzing them to find the principal factors which determine success or failure.

An Economic Study of Potato Farming.—In a study of 294 potato farms in the Hastings area for the crop year 1925, the principal factors which seemed to explain the wide variation in net returns were:

- a. **Size of business.** Those farms having the largest acreage of potatoes made the highest labor incomes.
- b. **Yield of potatoes.** Labor income increased as the yield per acre increased.
- c. **Investment per farm.** The potato farms with very large or very small capital were not so profitable as farms with capital between these extremes.

Other important factors affecting incomes were prices of potatoes, percent of receipts from potatoes, and education and previous experience of operators.

Survey of General Farming in Northwest Florida.—Records were secured on 499 farms in Jackson County for the year 1925, and on 110 of the same farms for the year 1928. The principal cash crops in this area are cotton, Spanish peanuts, watermelons, and cane syrup. In 1925 the cotton yield was high for this section and the price good; in 1928 the exact opposite was true. Watermelons and cane syrup were also much lower in price in 1928 than in 1925. In 1925 the average labor income of the 110 farm operators included in the study both years was \$231. In 1928 there was no return to the operators for their year's labor, and the farms lacked \$269 of paying seven percent interest on their investments. There was a return from the farms, however, that was not included in the labor income figure, represented by the value of farm products for home use, and the use of the house as a home. In 1925 these non-cash returns amounted to \$624, and in 1928 to \$551 per farm.

Economic Study of Dairy Farming.—Detailed studies of the operations of 249 dairy farms located in the vicinities of Jacksonville, Orlando, Miami, Tampa, St. Petersburg, and Ocala for the year 1927 indicated that the fewer the hours of labor used in producing 100 pounds of milk, the lower the cost and the higher the labor income; and the larger the herd the more efficient was the labor and the higher the labor income. In the groups producing 4,000 pounds of milk and less per cow, retailers and wholesalers lost about equally, but the relative advantage of the retailers increased rapidly in the higher production groups.

From 1927 to 1931 the price of milk was reduced in a slightly greater proportion than the costs of production. Consequently, profits on 38 identical farms were reduced about 43 percent. Retail prices paid by farmers for commodities used in living declined only 18 percent between June, 1927 and June, 1931.

Studies of Cotton Grades and Prices.—A study of the relation of grade and staple to the price of cotton grown in Florida indicated that local buyers failed to pay farmers the premium they should receive for the better grades and staples. This action on the part of buyers is having the effect of retarding any tendency the farmers might have to improve the grade and staple in this state. If corrected so that the farmers received this premium, it would likely add to the cotton income of the state about \$2.00 per bale, or \$50,000 per year.

Cost of Handling Citrus Crops.—A study of the cost of han-

dling citrus fruit from the tree to the car, covering approximately 100 packinghouses for the two seasons 1924-25 and 1925-26, reveals that if the least efficient 78 percent of the packinghouses were as efficient as the remaining 22 percent, the saving in handling costs would amount to \$1,370,850 on a 25,000,000 box crop. This study indicates that some of the important factors in the efficient handling of citrus fruits from the tree to the car are:

1. A reasonable investment per box.
2. Adequate volume, in general at least 75,000 boxes.
3. Large volume per car capacity—at least 15,000 boxes.
4. Large volume per grower. If the fruit of individual growers must be kept separate until packed, at least 400 boxes per grower seems necessary for efficient operation.
5. Efficient arrangement of packinghouses.

Work is now going forward to bring this study up to date and find what new factors have developed during the past few years.

Investigation of Citrus Freight Rates.—A study of citrus fruit freight rates shows that the freight rate on Florida citrus fruit since 1914 has been increased nine percent more than the freight rate on California citrus fruit. If the Florida rate could be placed on a par with the California rate it would mean a saving of \$2,125,000 per year on a 25,000,000 box crop. A temporary reduction in the Florida rates in line with these facts was made from February 15 to June 15 of the past season, resulting in the saving of several hundred thousand dollars to the growers of this state.

Competition in Truck Crops.—Compilations have been made for each of Florida's important truck crops, showing the weekly competition of Florida with other states and imports from foreign countries for each season since 1924-25. These compilations show the increasing competition which Florida is experiencing and indicate the season of the year when this competition is lightest. A detailed study for 1928-29 shows the competition between the various producing areas within the state.

Studies of Cooperative Associations.—Data were secured on the activities of 341 incorporated and 33 unincorporated cooperative associations that had been organized prior to the 1929-30 marketing season. Slightly more than 50 percent of these associations were active during the 1929-30 season. The most common causes of failure of the association which had ceased to operate

were found to be lack of volume, poor management, no need for cooperative, lack of cooperative spirit, insufficient capital, competition, unsatisfactory prices, and others.

Since unincorporated cooperative associations are essentially partnerships and have the disadvantage of unlimited liability for each member, an analysis was made and published of the provisions of the three state laws available for incorporation, and of related Federal laws. The information contained in this bulletin should be of great help to associations that wish to organize on a business basis.

Successful business practices of cooperative associations are being determined from the experiences of outstanding associations and will be made available to those who wish to study them.

Bureau of Economic and Business Research.—The College of Commerce and Journalism as well as the College of Agriculture exists for the purpose of research in Florida as well as for instruction of the youth of Florida. In recognition of this purpose, the College of Commerce and Journalism established the Bureau of Economic and Business Research in 1930. This Bureau is not a bureau separate and distinct from the College itself; it is rather a unit within a unit, a clearing house for the research activities of faculty members. It has no specific appropriations to carry on its operations. It has a director, who is a regular faculty member, and two research graduate assistants. The director is released each year from a part of his teaching load and together with the research assistants supervises and prosecutes the research projects of the Bureau.

During the academic years 1930-31 and 1931-32, the Bureau of Economic and Business Research published five monographs or bulletins. The titles of these monographs show something of the activities of the Bureau: *The Assessment of Real Estate for Purposes of Taxation*, by John G. Eldridge and Oscar L. Durrance; *Measures of Business Activity in Florida*, by Montgomery D. Anderson; *Forewarnings of Bank Failure*, by Harwood B. Dolbeare and Merle O. Barnd; *Studies in Forestry Resources of Florida: I. Timber Conservation*, by Stuart Campbell and E. M. McCracken; *II. The Lumber Industry*, by A. Stuart Campbell and R. C. Unkrich.

The Bureau of Economic and Business Research coordinates its work with that of the College of Agriculture and thereby prevents duplication of effort. It is directing or is planning to

direct Florida studies in natural resources, in manufacturing, in taxation, in finance, in commerce, in transportation, in tourist facilities, and in many other related fields. While it has had no specific funds allotted to it and while it has been able to make only the merest beginnings, its research activities are of immeasurable value to the State of Florida.

The Bureau of Economic and Business Research could be directly of great value to the business men of Florida if it could publish a monthly Florida review of business conditions. This review might carry data showing trends in current business and economic conditions. While it would not attempt to forecast current business conditions in Florida, it would at least give statistics of past business activities and put the business man in the position where he could judge for himself as to the future. Already the Bureau has gathered current statistics on business conditions and is keeping them up to date. If these could be interpreted and published monthly and thereby be made available to business enterprisers in Florida, these business enterprisers might be better able to meet economic changes and save themselves from serious losses.

To show more specifically the economic worth of business research to the State of Florida, a simple illustration might not be entirely out of place. Suppose, for example, the Bureau of Economic and Business Research had sufficient funds to study the operations of retail enterprises in Florida. Such a study might cover the costs of doing business, the sources from which they receive goods, the costs of transportation into the territory which they serve, the types of customers they have, the profits which the least as well as the most successful make, and numerous other operating and managerial activities. The data obtained would give a picture of a sufficient number of stores to indicate to the average retailer what his difficulties are as compared with other retailers in Florida. The data would be so combined that no specific person would be asked to reveal any competitive advantages which he might have. The conclusions drawn would be of general application and would enable retailers to solve their problems, appraise their difficulties, improve their efficiency, and increase their profits. Such a study would not only be of economic value to retailers themselves but also of value to the state in making retailers more effective economic agents in the operation of the state's economic system.

RESEARCH IN THE COLLEGE OF ENGINEERING

Although the Board of Control authorized an Engineering Experiment Station in 1929, the organization has existed in name only because no funds have been available for a building, equipment, or personnel. In research, as with most things in life, one cannot get something for nothing. Elsewhere in this report is depicted the excellent work carried on by the Agricultural Experiment Station with funds provided by the State. Examples are given wherein the Agricultural Experiment Station has since its establishment in 1888 produced work which has returned in wealth to the state more than the total funds appropriated during the life of the Station. The same thing can be demonstrated for an Engineering Experimental Station, if the opportunity were given. The erection of an Experiment Station building and its equipment is justified on the following grounds:

1. We are living in an industrial age. That state which does not develop its factories and industries will always be poor.

2. Florida is already an industrial state. More people are gainfully employed in Florida in manufacturing and the mechanical industries than are engaged in Agriculture. The 1930 census shows:

	Total males and females above 10 years of age gainfully employed in Florida.
Agriculture	133,530
Manufacturing and Mechanical Industries.....	141,951
Transportation and Communication	47,928

3. Those engaged in industry produce more wealth than those engaged in agriculture and they pay more taxes.

4. The municipalities, especially the smaller ones where taxes are unusually burdensome, are entitled to the same engineering assistance from a state Engineering Experiment Station which rural communities receive from the Agricultural Experiment Station.

ENGINEERING EXPERIMENTAL WORK ACCOMPLISHED

Below is described some research work in engineering which has been carried on at the University of Florida. This is not typical of the research work which an Engineering Experiment Station could and would carry on if adequate facilities were available. The work described below represents the efforts of an industrious and courageous few who are determined to produce some engineering research irrespective of whether the state helps them

or not. Naturally, the projects are those in which the individuals are most interested and not necessarily those projects which would aid in creating the maximum wealth for the state.

Projects which have been studied recently in the College of Engineering are as follows:

UTILIZATION OF PALMETTO FIBER FOR BUILDING MATERIALS

The results of this investigation were negative in character. They showed clearly that it was not economically feasible at this time to produce from the wood of the native palm, veneers suitable for manufacturing wallboard. The dissemination of this knowledge undoubtedly dissuaded some reputable citizens from investing their money in projects which were economically unsound. These tests also had a wholesome effect in breaking up questionable stock selling schemes in this field. The saving to the state is estimated at \$100,000.00.

MEASUREMENTS OF HEAT TRANSFER THROUGH MATERIALS

This investigation led to the discovery of the most efficient type of wall construction for the proper insulation of a building under weather conditions prevalent in Florida. The saving to the people of the state will depend upon the dissemination of the results of the tests and their adoption. The heating and cooling bill for Florida may not seem large but a saving in the aggregate of 10 or 15 percent is an important economical item, and the added comfort and efficiency in living is an intangible asset which can not be appraised in dollars.

PRECISION TIMERS FOR CALIBRATION OF ROTARY WATTHOUR METERS

The results of this investigation are of primary interest to technical engineers and the engineering profession of Florida has recognized this investigation by having these results presented before the Florida Engineering Society and published under the title "Theory and Design of an Electric Timer." Every consumer of electricity in Florida is interested and ultimately benefits when more accurate and cheaper devices for measuring his consumption of electricity are perfected.

THE HIGH FREQUENCY INDUCTION FURNACE

The investigation of the high frequency induction furnace was also of primary interest to scientific and technical men. This investigation under the title "Theory and Design of the High Fre-

quency Induction Furnace" was presented to The Florida Engineering Society, which organization published the results (see *1930 Transactions Florida Engineering Society*, page 38) and awarded the author, Mr. D. E. Laurie, a prize. This type of furnace has its application in scientific fields where high temperatures are desired and heating must be done either in a vacuum or in the presence of gases. It is also used to make alloys and for melting precious metals such as gold and platinum.

THE IMHOFF METHOD OF SEWAGE TREATMENT

The study of the Imhoff Method of Sewage Treatment has been underway continuously since 1927. The results of this investigation have been applied with success to three plants in the state. A preliminary report of this work was published in the December, 1928, issue of *The Municipal and Waterworks News*. Because of its semi-tropical climate, its copious supply of water, and the vast number of tourists which come to the state each year, sewage disposal, drainage, and the elimination of mosquito and typhoid hazards are of vital concern to Florida. There is need for much



AN IMHOFF SEWAGE DISPOSAL PLANT

The Imhoff sewage disposal plant of the City of Gainesville in the installation of which the College of Engineering assisted.

further investigation in these fields and normally small communities cannot afford to carry on extensive research investigations.

The question of the preservation of the beaches, the prevention of erosion, and the protection of the vast playgrounds of Florida are problems with which an Engineering Experiment Station could most profitably concern itself. In 1930 the Federal Government enacted a law authorizing 50-50 cooperation to any state which would engage in investigation looking to the preservation of its shore line. To date Florida has not availed itself of that opportunity, yet it has the longest shore line of all the states in the union. An Engineering Experiment Station could well represent Florida in that undertaking.

RESEARCH WORK OF THE COLLEGE OF PHARMACY

The enormous economic losses caused by sickness and premature death have frequently been emphasized by public health writers. In the battle against disease, pharmacy renders an indispensable service. Without good health it is difficult to lead a happy and successful life. Neither pharmacist nor physician recommends the indiscriminate use of drugs, but certainly no one would wish to do without the general or local anesthetic in operations, the analgesic to stop pain, the germicide to prevent contagion or infection, and the use of quinine in malarial fevers, to cite only a few outstanding examples of indispensable drugs. As a bridge helps us over the roaring flood waters of a stream, so a drug helps us over many a crisis in our lives.

Research work in pharmacy is dedicated to the fight against disease and to the attainment of health. Improvements in the principles and methods of pharmacy lead to a decrease in sickness, thus conserving definite economic human values, and to the attainment of health, which contributes to the enjoyment of life in a way scarcely measurable in terms of gold pieces.

Although the College of Pharmacy is primarily a teaching unit, more than thirty-five research papers have been published from this college in the nine years following its establishment in 1923. These research articles, which have appeared in leading national scientific journals, may be grouped in four classes, as follows: (1) research on medicinal plant resources, (2) research on the constituents of Florida drug plants, (3) research on improvements in methods of preparation of pharmaceuticals, and (4) pure research intended primarily to advance the scientific development of pharmacy.

Drug Plant Survey.—Florida has a wealth of medicinal plant resources, and this has been a subject of investigation since the inauguration of the College of Pharmacy. To determine the plant resources a survey has been under way and considerable work has been accomplished by members of the instructional staff and graduate students.

Approximately 500 plants possessing medicinal properties have been found growing in this state. In each case the locality and available supply have been noted, and in most instances, a photograph taken. The following publications embody some of the results of this survey, as well as other studies:

Christensen, B. V.: Industrial importance of medicinal plants in Florida.

(In Dawe, Grovesnor: Industrial Survey of Florida. 1927. 178-183).

_____ Some drug plants in Florida. Fla. Dept. Agr. n. s. Bul. 14, 1929.

_____ Collection of medicinal plants in Florida. Fla. Dept. Agr. n. s. Bul. 45. 1930.

_____ and Lovell D. Hiner: Quality of spearmint oil produced in Florida. Jour. Am. Phar. Assn. 21: 147-149. 1932.

_____ and Arnold D. Welch. The relation of size of ergot to potency. Jour. of Phar. and Exp. Ther. XLV: 183-187. 1932.

Stuhr, Ernst T.: Medicinal Plants of Florida. Jour. Am. Phar. Assn. 17:761-766. 1928.

These publications have stimulated an interest in collection of native medicinal plants and several collectors are now active, as evidenced by letters received by the College of Pharmacy. Estimated annual income from crude drugs collected is \$75,000, and this amount undoubtedly will be increased with improved market conditions.

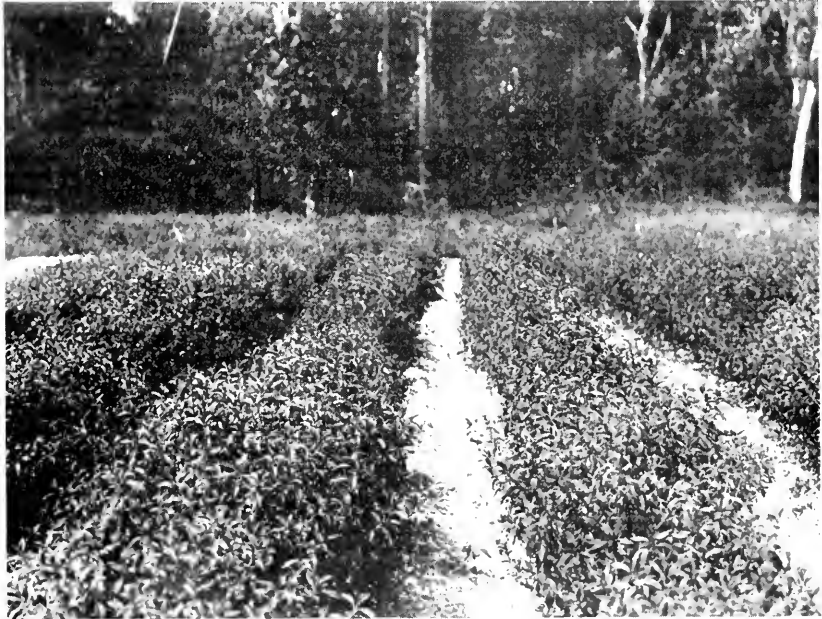
Herbarium.—In connection with the survey of medicinal plants previously mentioned, specimens have been collected, mounted, labeled and stored for study and reference. Photographs of many have also been prepared, placed on file and made available in class instruction and for reference. Many photographs have been supplied for use in textbooks and journals. At present the Herbarium consists of approximately 500 specimens with an estimated value of \$5,000.

Constituents of Florida Plants.—Research on the constituents of various Florida plants represents a field of study which should be emphasized in Florida. Studies along this line on several plants have been underway for some time. There grows in the waste places of Florida the wild white prickly poppy (*Argemone alba Lestib.*). In as much as this plant belongs to the poppy family, from which are derived opium and its alkaloids, such as morphine, it was decided to determine whether any of these alkaloids were present. No opium alkaloids were found, but an alkaloid known as berberine was found to be present to the extent

of about 2.6 percent. A study was also made of the wild coffee bean (*Glottidium vesicarium*), which grows in Florida and other southeastern states. Cases have been reported in which children were poisoned by eating these wild coffee beans. It was found that the toxic principle of this plant was an irritating saponin. A similar study was made of the seeds of sesbania (*Daubentonia longifolia*), which have been reported as causing the poisoning of chickens. This research, which was carried out by a graduate assistant under the direction of a professor of pharmacy, disclosed the fact that the poison is a saponin.

In such studies there is always a possibility of discovering new values in Florida plants which would be of economic value to the state, and moreover it is important that full knowledge be gained of the poisonous plants of the state that danger from them may be minimized.

Medicinal Plant Garden.—From time to time evidence is presented in the crude drug market that our natural supply of medicinal plants is decreasing rapidly because of the rapid depletion of the sources from which they are procured. It is deemed impera-



JAPANESE PEPPERMINT IN THE PHARMACY DRUG GARDEN.
Japanese peppermint might be added to Florida's long list of agricultural crops.

tive, therefore, that measures be adopted either to supply the regular demand for crude drugs by *cultivation* of drug plants or to find *natural substitutes* for those crude drugs now in use, the native supplies of which are approaching depletion.

For this reason the cultivation of medicinal plants is a promising potential industry for this state. From this point of view, as well as the educational point of view, considerable research work on the cultivation of medicinal plants has been fostered by this department.



RED SQUILL BULB FROM THE DRUG GARDEN.

The bulb of Red Squill grown in the drug garden at the University of Florida.
The cultivation of drug plants in the State can be developed into a worthwhile industry.

As a result it has been demonstrated that the following can be successfully grown under cultivation in Florida, and under reasonable market conditions are promising commercial crops:

Stramonium	Psyllium
Lemon Grass	Coriander
Ginger	Fennel
Horsemint	Dill
Spearmint	

The papers on these phases of research have already been indicated.

Publications and correspondence on the subject of cultivation of medicinal plants has stimulated an interest in this industry. As a result, one crude drug farm has been in operation two or three years in the vicinity of Fort Lauderdale, and others are in contemplation. This suggests a potential industry of considerable commercial value. In the case of spearmint alone, if this state produced only its proportionate share of the present demand for the oil, it would mean an annual income of at least \$50,000.

Improvements in Methods of Preparation of Pharmaceuticals. Leading pharmacists of the country have voiced the opinion that one of the outstanding problems in pharmacy today is the deterioration of drugs and preparations. It has been urged that more attention be given to research on methods of improving the keeping qualities of medicines. Drugs deteriorate more rapidly in warm, sunny regions than in ones cloudy and cold. Thus, while the balmy climate of Florida, with its health-giving sunshine, is a wonderful asset for the well-being of the people, it is to be expected that this very warmth and sunshine will cause more rapid deterioration of pharmaceuticals. It is, therefore, particularly appropriate that research along these lines should be emphasized in Florida.

An important study of the keeping qualities of Donovan's Solution has been carried out. This preparation has been used for almost a century in the treatment of certain diseases, but it deteriorates rapidly and becomes unfit for use after a time. This research work at the University of Florida led to the discovery of several methods of improving the keeping qualities of Donovan's Solution and an entirely new method of preparation was devised. This work represents the greatest advance in the knowledge of this solution since the present method of preparation was

originated by a French savant in 1841. It is interesting to note that this project was considered to be of such importance that our Head Professor of Pharmacy was awarded a research grant by the American Pharmaceutical Association; only two other such grants were awarded in the United States that year.

Studies also have been made on the keeping qualities of ointments and two other solutions are now being investigated. Research of this type has a decided value in cutting down the economic loss caused by the spoilage of medicines, and by making it more readily possible for the pharmacist to supply medicines of full strength, it has great potential possibilities in promoting health and saving lives.

Research has also been devoted to better methods of preparing various prescriptions, of which the following will serve as an illustration. It has been estimated by government authorities that approximately one-half of the population of the United States is infected with eczematoid ringworm of the hands and feet. This disease, which is also known as "athlete's foot," "golfer's itch," etc., is prevalent in the southeastern states. One of the most common prescriptions for this infection is Whitfield's Ointment, a preparation of benzoic and salicylic acids in an ointment base. It is no easy task to prepare this ointment properly in a short time. One of our professors studied several different methods of preparation and recommended an improved process, which was published and reprints were sent to every pharmacist in Florida.

Pure Research.—In any field of scientific endeavor, it is necessary that pure research be conducted to discover new facts and principles on which further developments may be based. Sometimes the leading reference books give conflicting statements on certain points, and as long as such points remain unsettled they prevent a clear understanding of the field of study and act as a hindrance to further progress. In a paper dealing with the hydrolysis of arsenous iodide, one professor of pharmacy described his accurate measurements bearing on certain points on which there have been conflicting statements in the reference books. The exact nature of solutions of arsenous iodide had not been known previously to most physicians and pharmacists and the report on this investigation cleared up this point.

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The Reports of the President and the Board of Control, the Bulletin of General Information, the annual announcements of the individual colleges of the University, announcements of special courses of instruction, and reports of the University Officers.

These bulletins will be sent gratuitously to all persons who apply for them. The applicant should specifically state which bulletin or what information is desired. Address

THE REGISTRAR
University of Florida
Gainesville, Florida

Research Publications.—Research publications will contain results of research work. Papers are published as separate monographs numbered in several series.

There is no free mailing list of these publications. Exchanges with institutions are arranged by the University Library. Correspondence concerning such exchanges should be addressed to the University Librarian, University of Florida, Gainesville, Florida. The issue and sale of all these publications is under the control of the Committee on Publications. Requests for individual copies, or for any other copies not included in institutional exchanges, should be addressed to the University Library, University of Florida, Gainesville, Florida.

The Committee on University Publications
University of Florida
Gainesville, Florida

EXPLANATION

Very often the Office of the Registrar receives requests for a list which gives the names of the students according to classification. In most cases the need is genuine and must be filled on short notice.

Accordingly, this printed and bound copy of the names of all students according to classification, together with a recapitulation of enrollment, is offered.

Names are given by colleges, and according to class within the college, i. e., freshmen, sophomores, juniors, seniors, and specials. The colleges are listed in order of size beginning with the College of Arts and Sciences and ending with the College of Pharmacy.

One asterisk indicates that the student is registered in two colleges. Two asterisks are used to denote women students.

OFFICE OF THE REGISTRAR

COLLEGE OF ARTS AND SCIENCES

FRESHMAN BACHELOR OF SCIENCE

Akin, Paul Roy	Jones, Walter P.
Allred, John Glenn	Justice, Edwin Revel
Begue, Joe Irving	Lindstrom, Arvar William
Bokor, Milton Jerome	Love, Jack Robert
Botts, Guy Warren	MacDowell, Carl Burr
Bryant, William Henry	Molpuss, Edward Lynell
Bullard, Hudson Newton Jr.	Moore, Ernest Carlton
Byers, Walter H.	Owen, Maurice
Carson, Robe Barrett	Petyan, Jack William
Carter, Robert Gordon	Pierce, L. Albert
Cato, Robert Holland	Rathbun, Frank Florin
Chase, William Ward	Reinhardt, William Frederick
Clymore, Charles Nelson	Risden, Arthur Franklin
Cohen, Sidney	Satcher, Ellis Theodore Jr.
Cooper, Robert W.	Saussey, John Cavanaugh
Cummings, Theo Hay	Setzer, John Dimon
Denslow, William Cooper	Shackleford, Donald W.
Dooley, Jesse Walton	Smith, J. Pierce
Elkins, Albert Franklin Jr.	Smith, Rhett Acker
Elsberry, Paul	Stemler, John Hodrick
Epstein, Leo Nathaniel	Stephens, Lewellys J.
Farris, Charles D.	Stern, Henry Maximilian
Fee, David Mitcheltree	Thomas, James Edward
Finman, Leo	Tieder, Paul Fillmore
Frank, Beecher Smith	Tiller, William Lorane
Gautier, William Kanode	Van Munster, Walter
Greco, Joe Scolaro	Venable, James Monroe
Greenberg, Morris David	Vestal, Earl McFerrin
Heddon, Jim	Vetter, Harry William
Hiers, John McClenny	Ware, Henry Melton
Hightower, James Albert	Weeks, Marvin
Hinton, Coleman	Wharton, William Redwood
Hodnett, Ernest Matelle	Williamson, Gilford Jackson
Hundertmark, Burton Wagar	Wood, F. Bradshaw
Jackson, Newton Calhoun	Woolery, Charles Roscoe Jr.
Johnson, Robert Welton	Zellner, Robert Earl

FRESHMAN BACHELOR OF ARTS

Adams, Joe Daniel	Bryant, James Robert
Adkins, James C. Jr.	Bull, William Wolverton
Alexander, George Moyer	Cain, Julius Crawford
Austin, J. Manning	Cowles, Leonard Ruel
Bouterse, Matthew John Jr.	Cox, Sam Gilman
Bridges, George Ford	Crenshaw, Lawrence Apperson
Brown, Arthur William	Deakin, Earl Hastings

Durland, William LaSalle	Moore, Leon Bridson
Eversole, John Boyd	Nasrallah, Paul Joseph
Fitzgerald, John Joseph	Oliver, James Parker
Futch, Truman Gaskins, Jr.	Perry, Clyde Jr.
Girtman, John Charles	Perry, Robert Stuart
Griffin, James Oliver	Pfeifer, LeCount Louis
Gullett, Carl Mallory	Pilton, Ernest
Hampton, Howell Morton Jr.	Pinkerton, Jack Cooper
Hart, John Alan	Pratt, Jimmy Edward
Hendrickson, Olavi Martin	Ramos, Antonio Benjamin
Hinson, Ben Adams	Rauscher, John Nicholas Jr.
Holland, Robert Vance	Raysor, Clifford Royston Jr.
Hoyt, Henry Dawes	Reeder, S. Bye Jr.
Hunnicuttt, William Reese Jr.	Robbins, Alex
Hunter, James Claudius	Roberts, Ralph G.
Jackson, Vernon Elmer	Saltzman, Herman
Kader, William Edward Jr.	Schell, James Eugene
Kamiya, Franklin L.	Selber, Philip Nathan
Kelly, Bruce William	Shaheen, Earnest George
Krantz, Rolland Jordan	Shaw, Walter Angus
Lewis, Charles Cecil	Sherman, George Clark
McCaughan, George Chandler	Smathers, George
McKinney, William Haisley	Smith, Kenneth Taylor
McMullen, Edwin Wallace	Snyder, Ishmael Woodrow
McRae, Kelly Bunyan	Tally, Louie Cottrell
Malloch, Richard Randell	Terry, William Roland
Marks, Esmond Ernest	Vaughn, William Jackson
Mickle, William B.	Wilson, D. Grant
Mizell, Everett Jr.	Wilson, John Evans
Moody, Theron Laurence	Wimberly, Stanley Eugene
Moore, Harold Edwin	Zewadski, William K. Jr.

FRESHMAN PRE-MEDICAL

Anderson, George F. Jr.	Clark, Joseph P.
Anderson, William Henley	Clark, William Rourk
Baker, Henry Milton	Clark, William W.
Barnum, William Willis	Cone, Dale Swift
Belcher, William Alexander	Cox, John Franklin
Bennett, Bruce Hardy	Decker, William Kingsley
Bissett, Owen Williams	Demerritt, William Wellesley
Blalock, Tully Talbot	Denham, Julian Francis
Bodiford, William Trueheart	Dobbins, Burns Alan Jr.
Boltin, Herbert Haley	Earman, John Robert
Bosworth, Dave Lipscomb Jr.	Edwards, William Raymond
Brevard, Theodore Washington	Falk, Louis
Brown, Clifford Gordon Jr.	Fleet, Joel
Chace, Richard	Fort, Richard Lindner

Fosgate, John Cowell	Mayo, Wallace Charles
Fountain, James Raleigh	Morgan, Francis B.
Freeman, Thomas Stanley	Murray, Jack Wyman
Gale, John Samuel Jr.	Nathan, Alfred Marks
Gale, Richard Ovid	Neel, John
Gaylord, Stanley Hampton	Nuzum, George Creel
Geiger, Allen Bethell 2nd	O'Rork, Charlie Ternan
Gifford, John P.	Pagelsen, Charles Robert
Goss, Edmund Robert	Palik, Frank Silas
Graham, William Henry Jr.	Patterson, McLeod
Griffin, James Clarence	Pearson, Judson
Halton, Harry Lawrence	Perkins, Theodore
Hardee, Earl	Piazza, Jack
Harris, Boyd Hunt	Prothro, William Culver
Harris, Willis Wilbur	Renedo, Henry Jr.
Hassell, Joseph Edward	Richard, Norman Dave
Heggie, Norman McLeod Jr.	Riddle, Arthur Lee
Hoffman, Harold Henry	Roux, Frederick Stuart Jr.
Holloway, Charles Lester	Rozier, John Simpson III
Hurley, George Caldwell	Schneider, Morris
Jahn, Robert Julius	Shepherd, Charles William
Jentis, Louis	Smith, Trammell Oglesby
Johnson, Fred Albert	Spencer, William Caldwell
Johnson, Julius	Sprinkle, Henry Townsend
Johnston, William Edward	Stonebraker, John Gaskins
Kennard, Edward James	Suggs, William Amos Jr.
Larsen, Charles Jr.	Tedford, Arthur Cecil
Lastra, Arthur	Trezevant, D. H.
Lindsay, Amon Benjamin	Tugwell, Frank Elbert Jr.
Lipscomb, Edward VanLaer	Turner, Gilbert Eugene
Lobo, Joseph Mario	Umana, Humberto Julio
Long, Carl Monroe	Weigel, William Richard
McAfee, Morgan Favors Jr.	West, James Whitaker Jr.
McIlvaine, Eugene Thomas	White, Henry Clay
McKeown, Clarence Eugene	Williams, Edwin L.
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 Grossenbacher, Sam A.
 Lane, Tom Warren
 Leland, Aaron Whitney
 Merrill, George B.

Olliff, Lee Forest
 Rivers, Thomas Howell
 Schaumburg, Ludwig Conrad
 Smith, Sidney Inman
 Womak, M. Kenan

ONE YEAR AGRICULTURE

Barton, Lansing Wesley
 Brown, James Alton
 Cox, Alfred Rankin Jr.
 Doering, Earnest Bivins

Gramling, Joe Reed
 Milam, Marcus Alexander Jr.
 Palmisano, Frank Joseph
 Williams, James Edwin

THE GRADUATE SCHOOL

**Abbott, Ouida Davis
 Adelson, Dave E.
 Ames, Burton Weber
 Amundsen, Lawrence Hardin
 *Andrews, Byron Knight
 (Also 4 BAE)
 **Arnold, Frances Lee
 Arnold, John S.
 **Arnold, Lillian E.
 Arnold, P. T. Dix
 Babich, Peter
 Baer, Allan Oliver
 Bailey, Leonard Campbell
 Baker, George LeRoy
 Baker, Robert Britton Jr.
 **Baker, Roxie
 Batchelor, A. R.
 Bell, Stuart Craig
 Blanchard, Albert Claude
 Blanchard, L. Paul
 Bogart, John Alleyne Calhoun
 Booth, Clyde Vliet
 Briggs, Wynfred Roscoe
 Brinkley, Harry John
 Brooks, Richard Lee
 Buchholz, Frederick W.
 Butt, Thomas Cecil
 Calhoun, Paul White
 *Carr, Archie F. (Also 4 BS)
 Cole, Allen T.

Constans, Henry Philip
 Copeland, J. Dewberry
 Cutler, Ronald John
 Dalalian, Harry Peter
 Daniel, William Russell
 David, James Bernard
 Degtoff, Walter Alexander
 DeLoach, Judson Bennett
 DeMasters, Clarence Ulysses
 Donnelly, Wallace Oliver
 Dreblow, Charles Julius
 Dunn, William Tillman
 Earle, Huber Dale
 Emanuel, Laurence Martin
 Farun, Fred N.
 Fehder, Paul
 Forsee, William Thomas
 Freeman, H. Dwight
 Fulghum, Ralph Morris
 Gaylord, Herbert Russell
 Gordon, Ulysses Short
 Greenman, John Roosevelt
 Grinstead, Alan Douglas
 Gulick, Harold Marion
 Hall, Joseph Tilden Jr.
 **Harris, Nina McAllister
 Haug, George Walter
 Hawkins, George A.
 Henderson, Joseph Russell
 Henley, William Walter

- Hiatt, Lyle Steven
 **Hill, Maoma Frances
 Hiner, Lovell David
 Hocking, George Macdonald
 **Holt, Esther C.
 **Huffaker, Mary Bryan
 Huffer, John Craig
 Hussey, Thomas Goldsmith
 Huyck, Clement Lee
 Jefferson, Wayne O.
 Jernigan, Claude Hagen
 Johansen, Hans Rolff
 Johnson, Leonard Emanuel
 Johnson, Richard Sadler
 Jones, Hastings Wyman
 Jones, Vernon
 Keeler, Emerson Martin
 Killinger, Clarence Eugene
 Klotz, Lyell Joseph
 Lear, C. Merritt
 Lindstrom, Evan Theodore
 Little, Thomas Morton
 Ludwig, Gerald E.
 Lynch, Harold John
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 Magid, Louis
 Malphurs, Ojus
 Manucy, Albert Clement
 Mehrhof, Norman Ripley
 Menendez, Ernest M.
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 (Also 4 AB)
 **Olson, Clara McDonald
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 **Pinsker, Jeannette Radin
 *Platt, William Jr. (Also 4 Ag.)
 Potts, Joseph Dascomb
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 Snoeyenbos, Willard Johnson
 Spurlock, Alvin Harold
 Swanson, Daniel Cramer
 Thomas, Gustav A.
 Thomas, Tyre Shepard
 Thompson, Robert Alden
 Thronson, Silas Melvin
 Tod, Carrel Ingersoll
 Trogdon, Richard Page
 Unkrich, Robert Clinton
 Wallace, Howard Keefer
 Warren, Richard
 Webb, Thomas Roba
 Weld, Benjamin Remington
 Wells, Sidney Wilson
 *Wilkins, Colbert William
 (Also 4 Ch E)
 *Wilkinson, Robert William Jr.
 (Also 4 BSE)
 Wilson, Henry Y.
 Wilson, John Wesley
 Winsor, Herbert Williams
 Wolcott, John Lucien
 Wolff, George Raymond
 Young, Thomas Wilbur

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Everett, C. M.	Stokes, John Robert

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McCarty, William A.	

SPECIAL PAINTING

Taylor, Joe Avera

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FRESHMAN PHARMACY

Baker, Sidney Lee	Kennard, Sam Jeff III
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Long, Richard Hardin	

JUNIOR PHARMACY

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Crosswy, Vincent Cleveland	Owens, Wesley Dalton
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Goldstein, Arthur	Toole, Mike Horne

SENIOR PHARMACY

Hunter, James Hardin	Mallory, Eschol M.
McLean, Andrew P.	Spencer, Allen William

SPECIAL PHARMACY

Keene, Cecil Robert	Musso, Anthony Rex
---------------------	--------------------

RECAPITULATION
REPORT OF ENROLLMENT
FOR THE FIRST SEMESTER 1932-33

COLLEGE OF ARTS AND SCIENCES

Freshman Bachelor of Science.....	73		
Freshman Bachelor of Arts	76		
Freshman Pre-Medical	104	253	
Sophomore Bachelor of Science	55		
Sophomore Bachelor of Arts	65		
Sophomore Pre-Medical	59	179	
Junior Bachelor of Science.....	55		
Junior Bachelor of Arts	40	95	
Senior Bachelor of Science	24		
Senior Bachelor of Arts.....	16	40	
Special Bachelor of Science	4		
Special Bachelor of Arts	5		
Special Pre-Medical	3	12	579

COLLEGE OF COMMERCE AND JOURNALISM

Freshman Business Administration	130		
Freshman Business Administration and Law....	53		
Freshman Business Administration and Engineering	16		
Freshman Journalism	22	221	
Sophomore Business Administration	132		
Sophomore Business Administration and Law ..	33		
Sophomore Business Administration and Engineering	3		
Sophomore Journalism	14	182	
Junior Business Administration	60		
Junior Business Administration and Law	10		
Junior Business Administration and Engineering	4		
Junior Journalism	10	84	
Senior Business Administration	66		
Senior Journalism	15	81	
Special Business Administration	6	6	574

COLLEGE OF ENGINEERING

Freshman Engineering	137	137	
<hr/>			
Sophomore Chemical Engineering	27		
Sophomore Civil Engineering	17		
Sophomore Electrical Engineering	40		
Sophomore Mechanical Engineering	28	112	
<hr/>			
Junior Chemical Engineering	18		
Junior Civil Engineering	10		
Junior Electrical Engineering	19		
Junior Mechanical Engineering	15	62	
<hr/>			
Senior Chemical Engineering	16		
Senior Civil Engineering	12		
Senior Electrical Engineering	25		
Senior Mechanical Engineering	8	61	
<hr/>			
Special Chemical Engineering	1		
Special Civil Engineering	1		
Special Electrical Engineering	3		
Special Mechanical Engineering	2	7	379
<hr/>			

COLLEGE OF EDUCATION

Freshman Bachelor of Arts in Education	31		
Freshman Bachelor of Science in Education....	20		
Freshman Health and Physical Education.....	26		
Freshman Bachelor of Science in Agricultural Education	1		
Freshman Bachelor of Science in Manual Arts	2	80	
<hr/>			
Sophomore Bachelor of Arts in Education.....	38		
Sophomore Bachelor of Science in Education....	11		
Sophomore Health and Physical Education	31		
Sophomore Bachelor of Science in Agricultural Education	3	83	
<hr/>			
Junior Bachelor of Arts in Education.....	32		
Junior Bachelor of Science in Education.....	11		
Junior Health and Physical Education.....	18		
Junior Bachelor of Science in Agricultural Education	1		
Junior Bachelor of Science in Manual Arts.....	4	66	
<hr/>			
Senior Bachelor of Arts in Education.....	21		
Senior Bachelor of Science in Education.....	20		
Senior Health and Physical Education	13		
Senior Bachelor of Science in Agricultural Education	3	57	
<hr/>			

Special Bachelor of Arts in Education	4		
Special Bachelor of Science in Education.....	5		
Special Health and Physical Education.....	2	11	297
	<hr/>		
COLLEGE OF LAW			
Freshman Law	77		
Junior Law	65		
Senior Law	64	206	206
	<hr/>		
COLLEGE OF AGRICULTURE			
Freshman Agriculture	41	41	
	<hr/>		
Sophomore Agriculture	52		
Sophomore Landscape Design	3	55	
	<hr/>		
Junior Agriculture	36		
Junior Landscape Design	4	40	
	<hr/>		
Senior Agriculture	33	38	
	<hr/>		
Special Agriculture	15		
One Year Agriculture	8	23	197
	<hr/>		
GRADUATE SCHOOL			
Graduate	150	150	150
	<hr/>		
SCHOOL OF ARCHITECTURE AND ALLIED ARTS			
Freshman Architecture	14		
Freshman Painting	6	20	
	<hr/>		
Sophomore Architecture	15		
Sophomore Painting	4	19	
	<hr/>		
Junior Architecture	8		
Junior Painting	4	12	
	<hr/>		
Senior Architecture	9	9	
	<hr/>		
Special Painting	1	1	61
	<hr/>		
COLLEGE OF PHARMACY			
Freshman Pharmacy	23		
Sophomore Pharmacy	15		
Junior Pharmacy	8		
Senior Pharmacy	4		
Special Pharmacy	2		52
	<hr/>		

ENTIRE UNIVERSITY		2495
Less duplicates as follows:		
4 AB and 2 L	2	
4 AB and Graduate	1	
4 BS and Graduate	1	
4 ChE and Graduate	1	
4 Ag and Graduate	1	
4 BAE and Graduate	1	
4 BSE and Graduate	1	
3 BS and 3 BSE	1	9
		<hr/>
TOTAL ENROLLMENT		2486

COMPOSITE OF ALL COLLEGES

Freshmen	775
Sophomores	645
Juniors	367
Seniors	290
Specials	62
Law Students	206
Graduates	150
	<hr/>
Entire University	2495
Less Duplicates	9
	<hr/>
Total Enrollment	2486

WOMEN STUDENTS
(Included in foregoing)

COLLEGE OF COMMERCE AND JOURNALISM			
Senior Journalism	1		
Junior Journalism	2	3	
		<hr/>	
COLLEGE OF AGRICULTURE			
Senior Agriculture	1	1	
		<hr/>	
COLLEGE OF EDUCATION			
Senior Bachelor of Arts in Education	1	1	
		<hr/>	
SCHOOL OF ARCHITECTURE AND ALLIED ARTS			
Sophomore Architecture	1	1	
		<hr/>	
COLLEGE OF LAW			
Senior Law	3		
Freshman Law	3	6	
		<hr/>	
GRADUATE SCHOOL			
Graduates	12	12	24
		<hr/>	

The University Record

of the

University of Florida

REGISTER
of the
REGULAR SESSION 1931-32
SUMMER SESSION 1932



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November 15, 1932

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University of Florida,
Gainesville, Florida.

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Professor of Bible	
ALAN BEVERLY BURRITT, M.L.A.	Agriculture Building
Associate Professor, Head of Department of Landscape Design	
CHARLES FRANCIS BYERS, Ph.D. (Michigan)	Science Hall
Assistant Professor of Biology	
HENRY HOLLAND CALDWELL, M.A.	Language Hall
Assistant Professor of English	
PAUL W. CALHOUN, B.S.	Experiment Station
Assistant Entomologist	
ARTHUR FORREST CAMP, Ph.D. (Washington University)	Experiment Station
Horticulturist, Head of Department	
JOHN PERLIN CAMP, M.S.A.	Experiment Station
Assistant Agronomist	
ARCHER STUART CAMPBELL, Ph.D. (Virginia)	Language Hall
Associate Professor of Economics and Foreign Trade, Director of Bureau of Economic and Business Research	
CARLYLE CARR, B.S.	Ninth Street Building
Specialist in Rodent Control (Cooperation U. S. D. A.)	
WILLIAM RICHARD CARROLL, Ph.D. (Minnesota)	Science Hall
Assistant Professor of Botany and Bacteriology	
WILLIAM ANGUS CARVER, Ph.D. (Iowa State College)	Quincy, Fla.
Associate Agronomist, North Florida Experiment Station	
JAMES EDWARD CHACE, JR., M.B.A.	Buckman Hall
Assistant Professor of Economics and Business Management	

HARLEY WILLARD CHANDLER, M.S.	Language Hall
Registrar	
BERNARD VICTOR CHRISTENSEN, Ph.D. (Wisconsin)	Chemistry Building
Head Professor of Pharmacognosy and Pharmacology	
WESLEY CLANTON, Ph.D. (Michigan)	Science Hall
Acting Associate Professor of Biology (First Semester 1932-33)	
WASHINGTON AUGUSTUS CLARK, JR., M.A.	Language Hall
Instructor in English	
HAROLD GRAY CLAYTON, M.S.A. ..	Horticulture Building
District Agent, Agricultural Extension Service	
ROBERT SPRATT COCKRELL, M.A., B.L. (Virginia)	Law Building
Professor of Law	
MADISON DERRELL CODY, M.A.	Science Hall
Head Professor of Botany and Bacteriology	
JOHN MELTON COLEMAN, M.S.A.	Experiment Station
Assistant Chemist	
DANIEL A. CONNOR, Major, Field Artillery, U. S. Army	Benton Hall
Assistant Professor of Military Science and Tactics	
HENRY PHILIP CONSTANS, M.A., LL.B. (Wyoming)	Peabody Hall
Associate Professor, Head of the Department of Speech	
JOHN FRANCIS COOPER, M.S.A.	Horticulture Building
Editor, Experiment Station and Agricultural Extension Service	
LEWIS BRISCOE COOPER, Ph.D. (Cincinnati) ..	Peabody Hall
Assistant Professor of Supervised Teaching	
WARREN CASSIUS COWELL, B.S.	Basketball Court
Professor of Coaching and Physical Education, Varsity Basketball and Baseball Coach and Freshman Football Coach	
ALFRED CRAGO, Ph.D. (Iowa)	Peabody Hall
Professor of Educational Psychology, Tests and Measurements	
CLIFFORD WALDORF CRANDALL, B.S., LL.B. (Michigan)	Law Building
Professor of Law	
JOHN THOMAS CREIGHTON, M.S.	Agriculture Building
Instructor in Entomology and Plant Pathology	
IDA KEELING CRESAP ..	Horticulture Building
Librarian, Experiment Station	
CHARLES LANGLEY CROW, Ph.D. (Goettingen)	Language Hall
Head Professor of German and Spanish	
RAYMOND MERCHANT CROWN, B.S.A.	Quincy, Fla.
Assistant Agronomist, North Florida Experiment Station	
ADRIAN DAANE, Ph.D. (Minnesota)	Belle Glade, Fla.
Agronomist, Everglades Experiment Station	
URI PEARL DAVIS, M.A.	Peabody Hall
Instructor in Mathematics	
JAMES WESTBAY DAY, M.A., J.D. (Florida)	Law Building
Professor of Law	
JOHN WILLIAM DEBRUYN, M.A.	Auditorium
Assistant Professor of Music	
EZRA FRANKLIN DEBUSK, B.S.	Horticulture Building
Citrus Pathologist and Entomologist, Agricultural Extension Service	
FRANCIS MARION DEGAETANI, B.A.E.	Language Hall
Instructor in Spanish	

RALPH DAVIS DICKEY, B.S.A.	Agriculture Building
Assistant Professor of Entomology and Plant Pathology, Acting Head of Department of Entomology and Plant Pathology	
SIGISMOND DE RHODESHEIM DIETRICH, Ph.D. (Clark)	Buckman Hall
Instructor in Economic Geography	
HARWOOD BURROWS DOLBEARE, B.A.	Buckman Hall
Associate Professor of Finance	
JOSEPH P. DONNOVIN, Capt., Field Artillery, U. S. Army	Benton Hall
Assistant Professor of Military Science and Tactics	
BERNARD FRANCIS DOSTAL, M.A.	Engineering Building
Assistant Professor of Mathematics	
HOWARD DYKMAN, B.A., LL.B. (Minnesota)	Language Hall
Assistant Dean, College of Commerce and Journalism, and Professor of Economics and Insurance	
AUTHER HAMNER EDDINS, Ph.D. (Iowa State College)	Hastings, Fla.
Associate Plant Pathologist	
JOHN GRADY ELDRIDGE, M.A.	Buckman Hall
Associate Professor of Economics	
LINUS MARVIN ELLIS, JR., Ph.D. (Johns Hopkins)	Chemistry Building
Instructor in Chemistry	
ELMER JACOB EMIG, M.A.	Language Hall
Head Professor of Journalism	
MARTIN RUSSELL ENSIGN, M.S.	Experiment Station
Associate Horticulturist	
HASSE OCTAVIUS ENWALL, Ph.D. (Boston)	Peabody Hall
Head Professor of Philosophy	
SILAS KENDRICK ESHLEMAN, JR., M.S., M.E.	Benton Hall
Assistant Professor of Drawing and Mechanic Arts	
JAMES MARION FARR, Ph.D. (Johns Hopkins), D.Litt.	Language Hall
Vice-President of the University, Head Professor of English	
LESTER COLLINS FARRIS, M.A.	Language Hall
Associate Professor of English	
WILLARD MERTON FIFIELD, M.S.	Homestead, Fla.
Assistant Horticulturist, Sub-Tropical Experiment Station	
WILLIAM WARRICK FINEREN, M.E.	Engineering Building
Assistant Professor of Mechanical Engineering	
WILBUR LEONIDAS FLOYD, M.S.	Agriculture Building
Assistant Dean of the College of Agriculture, Head Professor of Ornamentals and Forestry	
PERRY ALBERT FOOTE, Ph.D. (Wisconsin)	Chemistry Building
Professor of Pharmacy	
BONNIE REID FUDGE, Ph.D. (Rutgers)	Lake Alfred, Fla.
Associate Chemist, Citrus Experiment Station	
RALPH MORRIS FULGHUM, B.S.A.	Horticulture Building
Assistant Editor, Experiment Station and Agricultural Extension Service	
JOSEPH RICHARD FULK, Ph.D. (Nebraska)	Peabody Hall
Professor of Public School Administration	
LEONARD WILLIAM GADDUM, Ph.D. (Missouri)	Experiment Station
Biochemist	
EDWARD WALTER GARRIS, Ph.D. (Peabody)	Peabody Hall
Professor of Agricultural Education	
FRANK GENOVAR	Gymnasium
Assistant in Physical Education, Swimming Coach	

HALLET HUNT GERMOND, Ph.D. (Wisconsin)	Peabody Hall
Assistant Professor of Mathematics	
LEONARD GIOVANNOLI, M.A.	Science Hall
Curator, Department of Biology (On leave 1932-33)	
FLAVIA GLEASON	Tallahassee, Fla.
State Agent, Home Demonstration Work	
JAMES DAVID GLUNT, Ph.D. (Michigan)	Language Hall
Assistant Professor of History and Political Science	
CARLOS C. GOFF, M.S.	Leesburg, Fla.
Assistant Entomologist	
KLEIN HARRISON GRAHAM	Language Hall
Business Manager	
LEVI OTTO GRATZ, Ph.D. (Cornell)	Quincy, Fla.
Plant Pathologist in Charge, North Florida Experiment Station	
HOWARD WILLIAM GRAY, M.S., C.P.A.	Language Hall
Professor of Accounting	
ARTHUR SYLVESTER GREEN, M.A.	Peabody Hall
Instructor in History and Political Science	
JOHN ROOSEVELT GREENMAN, B.S.A.	Ninth Street Building
Assistant Agricultural Economist, Farm Management, Agricultural Extension Service	
EDGAR FREDERICK GROSSMAN, Ph.D. (Columbia)	Experiment Station
Entomologist	
HENRY GLENN HAMILTON, Ph.D. (Cornell)	Horticulture Building
Associate Professor of Marketing Agricultural Products	
FRED T. HANNAFORD, B.A.	Peabody Hall
Instructor in Architecture	
LYMAN GEORGE HASKELL, M.D. (Boston)	Old Gymnasium
Professor of Coaching and Physical Education	
WILLIAM BYRON HATHAWAY, M.A.	Peabody Hall
Associate Professor of Spanish	
OLIVER HOWARD HAUPTMANN, M.A.	Language Hall
Instructor in Spanish and German	
STACEY O. HAWKINS, M.A.	Homestead, Fla.
Assistant Plant Pathologist, Sub-Tropical Experiment Station	
DORR HAZELHURST, First Lt., Infantry, U. S. Army	Benton Hall
Assistant Professor of Military Science and Tactics	
FRED HARVEY HEATH, Ph.D. (Yale)	Chemistry Building
Professor of Chemistry	
WILLIAM WALTER HENLEY, B.S.A.	Experiment Station
Assistant Animal Husbandman	
WILBUR GARLAND HIATT, B.A.	Language Hall
Auditor of Budgetary Accounts	
WILLIAM TROTTER HICKS, M.S.	Buckman Hall
Instructor in Economics and Economic Geography	
ALFRED NASH HIGGINS, B.A.	Basketball Court
Professor of Coaching and Physical Education, Varsity Track Coach, Assistant Freshman Football Coach, and Director of Intra-Mural Athletics	
THOMAS J. HIGGINS, M.A.	Language Hall
Instructor in Spanish	
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Instructor in Pharmacognosy and Pharmacology	

ELMER DUMOND HINCKLEY, Ph.D. (Chicago)	Peabody Hall
Associate Professor of Psychology, Head of Department of Psychology, Director of Bureau of Vocational Guidance and Mental Hygiene	
JOE HOLSINGER, B.S.E.E.	Basketball Court
Associate Professor of Coaching and Physical Education, Freshman Basket- ball Coach, Assistant Varsity Football Coach, and Golf Coach	
ARTHUR ARIEL HOPKINS, M.A.	Peabody Hall
Assistant Professor of Speech	
RAYMOND HOLT HOWARD, M.S.A.	Horticulture Building
Instructor in Farm Management	
THEODORE HUNTINGTON HUBBELL, B.A.	Science Hall
Associate Professor of Biology	
FRED HAROLD HULL, M.S.	Experiment Station
Associate Agronomist	
H. HAROLD HUME, M.S.	Horticulture Building
Assistant Dean, Research, College of Agriculture, and Assistant Director, Research, Experiment Station	
HUBER CHRISTIAN HURST, B.A., LL.B. (Florida)	Buckman Hall
Associate Professor of Economics and Business Law	
WILLIAM JOHN HUSA, Ph.D. (Iowa)	Chemistry Building
Head Professor of Pharmacy	
ROBERT WILLIAM HUSTON, M.A.	Language Hall
Instructor in French	
VESTUS TWIGGS JACKSON, Ph.D. (Chicago)	Chemistry Building
Associate Professor of Chemistry	
CHESTER HOWELL JANES, B.S.M.E.	Engineering Building
Instructor in Drawing and Mechanic Arts	
JOHN HENRY JEFFERIES	Lake Alfred, Fla.
Superintendent, Citrus Experiment Station	
JOHN EVANDER JOHNSON, B.D., M.A.	Y.M.C.A. Building
Professor of Bible and Director of Social and Religious Service	
EDGAR CHARLES JONES, LL.B. (Florida)	Gymnasium
Director of Athletics	
HASTINGS WYMAN JONES, M.S.	Experiment Station
Assistant Chemist	
HENRY NORTON JUNE, B.S. Arch., A.I.A.	Peabody Hall
Professor of Architecture	
DAVID G. A. KELBERT	Bradenton, Fla.
Assistant Plant Pathologist	
MARY ELLEN KEOWN, M.S.	Tallahassee, Fla.
District Agent, Home Demonstration Work	
RALPH WYMAN KIDDER, B.S.	Belle Glade, Fla.
Assistant Animal Husbandman, Everglades Experiment Station	
RANDALL RICH KINCAID, M.A.	Quincy, Fla.
Assistant Plant Pathologist, North Florida Experiment Station	
HAROLD LORAIN KNOWLES, Ph.D. (Kansas)	Benton Hall
Instructor in Physics	
FRANKLIN WESLEY KOKOMOOR, Ph.D. (Michigan)	Engineering Building
Professor of Mathematics	
WILLIAM ABRAHAM KUNTZ, M.S.	Lake Alfred, Fla.
Associate Plant Pathologist, Citrus Experiment Station	

JOSEPH HARRISON KUSNER, Ph.D. (Pennsylvania)	Peabody Hall
Assistant Professor of Mathematics	
ELLSWORTH GAGE LANCASTER, Ph.D. (Clark), LL.D.	Peabody Hall
Assistant Professor of Child and Adolescent Psychology	
OTTO F. LANGE, Major, Infantry, U. S. Army	Benton Hall
Assistant Professor of Military Science and Tactics	
JAMES MILLER LEAKE, Ph.D. (Johns Hopkins)	Language Hall
Head Professor of History and Political Science	
TOWNES RANDOLPH LEICH, Ph.D. (Chicago)	Chemistry Building
Dean of the College of Pharmacy, Head Professor of Chemistry	
WALTER ANTHONY LEUKEL, Ph.D. (Wisconsin)	Experiment Station
Agronomist	
WILBERT ALVA LITTLE, M.A.	Peabody Hall
Associate Professor of Latin and English	
WINSTON W. LITTLE, M.A.	Peabody Hall
Associate Professor of Secondary Education	
RICHARD NUGENT LOBDELL, M.S.	Belle Glade, Fla.
Entomologist, Everglades Experiment Station	
EARL LESLIE LORD, M.S.	Agriculture Building
Professor of Pomology	
KENNETH WILFRED LOUCKS, M.S.	Leesburg, Fla.
Assistant Plant Pathologist	
THOMAS MARVEL LOWE, M.S.	Benton Hall
Assistant Professor of Civil Engineering	
WILLIAM LEONARD LOWRY, B.A.	Buckman Hall
Assistant Professor of Journalism	
RUBY McDAVID	Tallahassee, Fla.
District Agent, Home Demonstration Work	
SAMUEL W. McINNIS, M.A.	Peabody Hall
Instructor in Mathematics	
BRUCE MCKINLEY, B.A., B.S.A.	Ninth Street Building
Associate Agricultural Economist, Agricultural Extension Service	
JOHN VREDENBURCH McQUITTY, M.A.	Language Hall
Officer of Admissions	
RAYMOND GEORGE MANCHESTER, B.A., D.O.	Basketball Court
Trainer and Manager of Equipment, Department of Athletics	
FREEMAN GOODE MARTIN, M.S.	Agriculture Building
Instructor in Animal Husbandry and Dairying	
WALTER JEFFRIES MATHERLY, M.A.	Language Hall
Dean of the College of Commerce and Journalism, Head Professor of Economics	
ARTHUR RAYMOND MEAD, Ph.D. (Columbia)	Peabody Hall
Professor of Supervised Teaching and Director of Laboratory School	
NORMAN RIPLEY MEHRHOF, M. Agr.	Horticulture Building
Poultryman, Agricultural Extension Service	
CORA MILTMORE, B.S.	Library
Librarian	
CARL E. MITTELL, B.F.A.	Peabody Hall
Instructor in Drawing and Painting	
VIRGINIA PEARL MOORE	Tallahassee, Fla.
Home Improvement Agent, Home Demonstration Work	
WILLIAM CHENEY MOORE, Major, Infantry, U. S. Army	Benton Hall
Assistant Professor of Military Science and Tactics	

WILLIAM EDGAR MOORE, M.A.	Language Hall
Instructor in English	
ALTON CHESTER MORRIS, M.A.	Language Hall
Instructor in English	
CHARLES EUGENE MOUNTS, M.A.	Language Hall
Instructor in English	
HAROLD MOWRY, B.S.A.	Experiment Station
Horticulturist	
A. MOULTRIE MUCKENFUSS, Ph.D. (Johns Hopkins)	Chemistry Building
Professor of Agricultural Chemistry (First Semester 1932-33)	
WALTER J. MULLER, First Lieut., Infantry, U. S. Army	Benton Hall
Assistant Professor of Military Science and Tactics	
CLAUDE LEONIDAS MURPHREE, B.A.	Auditorium
Organist	
WAYNE MILLER NEAL, Ph.D. (Minnesota)	Experiment Station
Associate in Animal Nutrition	
JOSEPH R. NELLER, Ph.D. (Rutgers)	Belle Glade, Fla.
Biochemist, Everglades Experiment Station	
WILLIAM THOMAS NETTLES, B.S.	Horticulture Building
District Agent, Agricultural Extension Service	
WILMON NEWELL, D.Sc. (Iowa State College)	Horticulture Building
Dean, College of Agriculture, and Director, Experiment Station, Director, Agricultural Extension Service	
RUBY NEWHALL	Horticulture Building
Administrative Manager, Experiment Station and Agricultural Extension Service	
CLARENCE VERNON NOBLE, Ph.D. (Cornell)	Ninth Street Building
Agricultural Economist, Head of Department, Agricultural Extension Service	
ROBERT EMMETT NOLEN, M.S.A.	Plant City, Fla.
Assistant Plant Pathologist	
JAMES WILLIAM NORMAN, Ph.D. (Columbia)	Peabody Hall
Dean of the College of Education, Head Professor of Education	
GEORGE TIERSO NUNEZ, B.S.B.A.	Language Hall
Instructor in Accounting	
BURTON J. II. OTTE, M.S.	Chemistry Building
Curator in Chemistry	
ANCIL NEWTON PAYNE, Ph.D. (Illinois)	Peabody Hall
Assistant Professor of History and Political Science	
WILLIAM SANFORD PERRY, M.S.	Benton Hall
Associate Professor of Physics	
CECIL GLENN PHIPPS, Ph.D. (Minnesota)	Peabody Hall
Associate Professor of Mathematics	
A. P. PIERSON, B.A.	Gymnasium
Assistant Varsity Football Coach	
ZAREH MEGUERDITCH PIRENIAN, M.S.	Peabody Hall
Assistant Professor of Mathematics	
CASH BLAIR POLLARD, Ph.D. (Purdue)	Chemistry Building
Assistant Professor of Chemistry	
GARLAND POWELL	Radio Station
Director, Radio Station, WRUF	
J. EDWIN PRICE, B.A.E.	Language Hall
Instructor in English	

MELVIN PRICE, E.E., M.A.	Engineering Building
Head Professor of Mechanical Engineering	
RAYMOND K. QUEKEMEYER, First Lieut., Artillery, U. S. Army.....	Benton Hall
Assistant Professor of Military Science and Tactics	
PERCY LAWRENCE REED, C.E., M.S.	Benton Hall
Head Professor of Civil Engineering	
JESSE REEVES	Quincy, Fla.
Farm Superintendent, North Florida Experiment Station	
ARTHUR STEVENS RHOADS, Ph.D. (Syracuse).....	Cocoa, Fla.
Plant Pathologist	
BERT CLAIR RILEY, B.A., B.S.A.	Language Hall
Dean of the General Extension Division	
GEORGE EDGAR RITCHEY, M.S.	Experiment Station
Associate Agronomist (Cooperation U.S.D.A.)	
CHARLES ARCHIBALD ROBERTSON, M.A.	Language Hall
Professor of English	
ROSS EDWARD ROBERTSON, B.S.	Belle Glade, Fla.
Assistant Chemist, Everglades Experiment Station	
MORGAN COLUMBUS ROCHESTER, B.S.	Horticulture Building
Instructor in Farm Records and Accounts	
FRAZIER ROGERS, M.S.A.	Agriculture Building
Head Professor of Agricultural Engineering	
JAMES SPEED ROGERS, Ph.D. (Michigan)	Science Hall
Head Professor of Biology and Geology	
GEORGE D. RUEHLE, Ph.D. (Washington State College).....	Lake Alfred, Fla.
Associate Plant Pathologist, Citrus Experiment Station	
RUDOLPH WILLIAM RUPRECHT, Ph.D. (Mass. Ag. College).....	Experiment Station
Chemist, Head of Department	
ELLIS BENTON SALT, M.A.....	Peabody Hall
Associate Professor of Health and Physical Education	
NATHAN WILLARD SANBORN, M.D. (City of New York).....	Horticulture Building
Head Professor of Poultry Husbandry	
DORSEY ADREN SANDERS, D.V.M. (Kansas State College).....	West Palm Beach, Fla.
Veterinarian	
STEPHAN PENCHEFF SASHOFF, M.S.....	Engineering Building
Assistant Professor of Electrical Engineering	
ZACH SAVAGE, M.S.	Ninth Street Building
Assistant Agricultural Economist, Agricultural Extension Service	
(On leave 1932-33)	
WILLIAM LINCOLN SAWYER, B.S.	Benton Hall
Instructor in Civil Engineering	
PETER C. SCAGLIONE, B.S.B.A.	Buckman Hall
Instructor in Office Management and Economic History	
PETTUS HOLMES SENN, Ph.D. (Wisconsin)	Agriculture Building
Assistant Professor of Farm Crops and Genetics	
LUCY BELLE SETTLE, B.S.	Horticulture Building
District Agent, Home Demonstration Work	
ARTHUR LISTON SHEALY, D.V.M. (McKillip)	Experiment Station
Professor of Veterinary Science, and Animal Husbandman and Head of	
Department, Experiment Station	
WALTER JEFFERSON SHEELY, B.S.....	Experiment Station
Agent in Animal Husbandry, (Cooperation U.S.D.A.), Agricultural	
Extension Service	

HARLEY BLACKWELL SHERMAN, M.S.	Science Hall
Associate Professor of Biology (On leave First Semester 1932-33)	
WILLIAM BYRON SHIPPEY, Ph.D. (Columbia)	Leesburg, Fla.
Associate Plant Pathologist	
ANNA MAE SIKES, B.S.	Tallahassee, Fla.
Nutritionist, Home Demonstration Work	
GLENN BALLARD SIMMONS, M.A.E.	Peabody Hall
Assistant Dean of the College of Education, Associate Professor of Public School Administration (On leave 1932-33)	
STANLEY SIMONDS, Ph.D. (Johns Hopkins)	Law Building
Professor of Roman Law and Ancient Languages (Part Time)	
THOMAS MARSHALL SIMPSON, Ph.D. (Wisconsin)	Peabody Hall
Head Professor of Mathematics	
KENNETH GORDON SKAGGS, B.A.	Language Hall
Instructor in English (Part Time)	
DEAN SLAGLE, M.A., LL.B. (Yale)	Law Building
Professor of Law	
EDWARD FRANK SMITH, E.E.	Benton Hall
Assistant Professor of Electrical Engineering	
BUNNIE OTHANEL SMITH, M.A.	Peabody Hall
Assistant Professor of Curriculum Revision	
JESSE LEE SMITH	Horticulture Building
District Agent and Agronomist, Agricultural Extension Service	
ARTHUR PERCEVAL SPENCER, M.S.	Horticulture Building
Vice-Director, Agricultural Extension Service	
ROBERT C. SPENCER, B.M.E., F.A.I.A.	Peabody Hall
Instructor in Architecture	
HERMAN E. SPIVEY, M.A.	Language Hall
Instructor in English	
O. C. R. STAGEBERG, B.S. Arch.	Peabody Hall
Assistant Professor of Architecture	
ARTHUR LOUIS STAHL, Ph.D. (Rutgers)	Experiment Station
Associate Horticulturist	
DENNIS KEITH STANLEY, B.A.E.	Gymnasium
Associate Professor of Coaching and Physical Education, Assistant Varsity Football Coach, Tennis, and Freshman Coach	
EDWIN F. STANTON	Chipley, Fla.
Supervisor, Florida National Egg-Laying Contest	
FREDERICK DELOS STEVENS, B.S.	Belle Glade, Fla.
Associate Agronomist, Everglades Experiment Station	
LINTON COOKE STEVENS, M.A.	Language Hall
Instructor in French	
WILLIAM EUGENE STOKES, M.S.	Experiment Station
Agronomist, Head of Department	
ALBERT J. STRONG, B.S.M.E.	Engineering Building
Head Professor of Drawing and Mechanic Arts	
DANIEL C. SWANSON, S.B.	Benton Hall
Instructor in Physics	
CLARENCE JOHN TESELLE, M.A., LL.B. (Wisconsin)	Law Building
Professor of Law	
EZEKIEL FRED THOMAS, D.V.M. (Georgia)	Experiment Station
Assistant Veterinarian	

GEORGE WASHINGTON THOMPSON, LL.B. (Michigan)	Law Building
Professor of Law	
WILLIAM LOUDEN THOMPSON, B.S.	Lake Alfred, Fla.
Assistant Entomologist, Citrus Experiment Station	
SILAS M. THRONSON, M.S.	Chemistry Building
Instructor in Chemistry	
ISABELLE S. THURSBY, B.S.	Tallahassee, Fla.
Extension Economist in Food Conservation, Home Demonstration Work	
GEORGE CLARENCE TILLMAN, M.D. (Emory)	Infirmary
University Physician	
DOYAL EDGAR TIMMONS, M.S.A.	Ninth Street Building
Agricultural Economist, Marketing, Agricultural Extension Service	
WILLIAM BURLEIGH TISDALE, Ph.D. (Wisconsin)	Experiment Station
Plant Pathologist, Head of Department	
ARCHIE NEWTON TISSOT, Ph.D. (Ohio State)	Experiment Station
Associate Entomologist	
BENJAMIN ARTHUR TOLBERT, B.A.E.	Peabody Hall
Dean of Students	
GEORGE RICHARD TOWNSEND, Ph.D. (Cornell)	Belle Glade, Fla.
Assistant Plant Pathologist, Everglades Experiment Station	
LESLIE BENNETT TRIBOLET, Ph.D. (Johns Hopkins)	Language Hall
Assistant Professor of Political Science	
HARRY RAYMOND TRUSLER, M.A., LL.B. (Michigan)	Law Building
Dean of the College of Law, Head Professor of Law	
JOHN EDWIN TURLINGTON, Ph.D. (Cornell)	Horticulture Building
Head Professor of Agricultural Economics, Agricultural Economist, Agricultural Extension Service	
JAMES A. VAN FLEET, Major, Infantry, U. S. Army	Benton Hall
Commandant of Cadets, Professor of Military Science and Tactics	
THOMPSON VAN HYNING	Science Hall
Director of The Florida State Museum	
BLAKE RAGSDALE VAN LEER, M.E., M.S.	Engineering Building
Dean of the College of Engineering and Professor of Engineering	
RICHARD KENNETH VOORHEES, M.S.	Experiment Station
Assistant Plant Pathologist	
EDGAR SMITH WALKER, Colonel, U. S. Army (Retired)	Engineering Building
Instructor in Drawing	
FRED WINTER WALKER	Monticello, Fla.
Assistant Entomologist	
MARION NEWMAN WALKER, Ph.D. (Wisconsin)	Leesburg, Fla.
Plant Pathologist in Charge	
HOWARD KEEFER WALLACE, M.S.	Science Hall
Curator, Department of Biology	
JOHN LEVI WANN, M.S.A.	Horticulture Building
Instructor in Farm Records and Accounts (On leave 1932-33)	
FRED CURTIS WARD, B.S.B.A.	Language Hall
Instructor in Accounting (On leave 1932-33)	
JACOB D. WARNER, M.S.	Experiment Station
Associate Agronomist	
JOSEPH RALPH WATSON, M.A.	Experiment Station
Entomologist, Head of Department	

RUDOLPH WEAVER, B.S., A.I.A.	Peabody Hall
Director of the School of Architecture and Allied Arts, Head Professor of Architecture	
GEORGE FREDERICK WEBER, Ph.D. (Wisconsin)	Experiment Station
Plant Pathologist	
JOSEPH WEIL, M.S.	Engineering Building
Head Professor of Electrical Engineering, Chief Engineer, Radio Station, WRUF	
ERDMAN WEST, M.S.	Experiment Station
Mycologist	
JOHN F. WILLIAMS, First Lieut., Field Artillery, U. S. Army	Benton Hall
Assistant Professor of Military Science and Tactics	
OSBORNE WILLIAMS, Ph.D. (Chicago)	Peabody Hall
Assistant Professor of Psychology	
ROBERT CROZIER WILLIAMSON, Ph.D. (Wisconsin)	Benton Hall
Head Professor of Physics	
CLAUDE HOUSTON WILLOUGHBY, M.A.	Agriculture Building
Head Professor of Animal Husbandry and Dairying	
JOSEPH PORTER WILSON, M.B.A.	Buckman Hall
Assistant Professor of Marketing and Salesmanship	
JOHN WALLACE WILSON, D.Sc. (Harvard)	Leesburg, Fla.
Associate Entomologist	
JOHN WESLEY WILSON, B.S., E.E.	Benton Hall
Instructor in Electrical Engineering (Part Time)	
VERNE EDMUND WILSON, M.A.	Peabody Hall
Instructor in Psychology	
WILLIAM HAROLD WILSON, Ph.D. (Illinois)	Language Hall
Acting Dean of the College of Arts and Sciences, Professor of Mathematics	
HERBERT WILLIAMS WINSOR, B.S.A.	Experiment Station
Assistant Chemist	
JACOB HOOPER WISE, M.A., J. D. (Florida)	Peabody Hall
Assistant Professor of Supervised Teaching (On Leave 1932-33)	
HERBERT SNOW WOLFE, Ph.D. (Chicago)	Homestead, Fla.
Horticulturist in Charge, Sub-Tropical Station	
FRANK SUMNER WRIGHT, B.S.J.	Gymnasium
Director of Publicity, Secretary of Alumni Association	
PHILLIP OSBORNE YEATON, B.S., S.B.	Engineering Building
Associate Professor of Mechanical Engineering	

FACULTY COMMITTEES

For the year 1932-33

ACCREDITING COLLEGES

FARR, Chairman; ATKIN, CHANDLER, HEATH, LEAKE, SIMPSON.

ADMISSIONS

SIMPSON, Chairman; BIGHAM, CHANDLER, DAY, FOOTE, LEAKE, MCQUITTY, MEAD, STAGEBERG, WILLOUGHBY.

ALUMNI

FLOYD, Chairman; ABBOTT, AMES, DAY, HINCKLEY, HURST, J. E. PRICE, WRIGHT.

ATTENDANCE

CHANDLER, Chairman; BEATY, GLUNT, N. HIGGINS, PHIPPS, SHERMAN, WEIL.

BUILDINGS AND GROUNDS

WEAVER, Chairman; BEISLER, C. C. BROWN, BURRITT, ENSIGN, HIATT, W. C. MOORE, WEIL.

CORRELATION WITH HIGH SCHOOLS

MEAD, Chairman; BLESS, CHANDLER, W. W. LITTLE, PHIPPS, J. E. PRICE, TOLBERT.

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TOLBERT, Chairman; BLACK, DYKMAN, REED, and Student Representatives from:

- (1) Honor Court
- (2) Interfraternity Conference
- (3) Executive Council

FRESHMAN WEEK

BEATY, Chairman; ABBOTT, DYKMAN, FOOTE, JUNE, W. W. LITTLE, ROBERTSON, YEATON.

GLEE AND DRAMATIC CLUBS, ORCHESTRA AND BAND

CONSTANS, Chairman; DEBRUYN, JOHNSON, LOWRY, MULLER, POWELL, WILLIAMSON, WRIGHT.

LIBRARY

LEAKE, Chairman; CRAIG, ELDRIDGE, ENWALL, FARR, JUNE, HUSA, MILTIMORE, W. C. MOORE, M. PRICE, TURLINGTON.

MEMORIALS

WILLOUGHBY, Chairman; CARROLL, CHRISTENSEN, GARRIS, GLUNT, HEATH, LORD, PERRY, VAN FLEET.

MILITARY AFFAIRS

TRIBOLET, Chairman; CONNOR, GLUNT, KOKOMOOR, MULLER, SHEALY.

PUBLIC DEBATING

HOPKINS, Chairman; BRISTOL, ELDRIDGE, FARRIS, PAYNE, THOMPSON.

PUBLIC FUNCTIONS

LORD, Chairman; D. BROWN, CONSTANS, W. C. MOORE, PHIPPS, WEIL, WILLIAMS.

SCHEDULE AND OFFICE AND CLASSROOM ASSIGNMENT

CHANDLER, Chairman; DICKEY, GRAY, JACKSON, JUNE, PERRY, REED, SIMMONS, TeSELLE, WILLIAMSON, W. H. WILSON.

SCHOLARSHIPS

TOLBERT, Chairman; BRYAN, CHANDLER, COCKRELL, JONES, MATHERLY, NORMAN, SIMPSON, W. H. WILSON.

SELF HELP

BEATY, Chairman; TOLBERT, TRIBOLET.

STUDENT HEALTH

HASKELL, Chairman; DONNOVIN, J. S. ROGERS, SALT, SANBORN, TILLMAN, YEATON.

STUDENT PUBLICATIONS

EMIG, Chairman; CROW, LOWRY, ROBERTSON, TRUSLER, WILLIAMSON.

STUDENT REGULATIONS

TOLBERT, Chairman; CHANDLER, V. T. JACKSON, MATHERLY, NORMAN, J. E. PRICE.

STUDENT SOCIAL AFFAIRS

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- (1) Executive Council
- (2) Honor Court
- (3) Interfraternity Conference

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PUBLICITY

WRIGHT, Chairman; COOPER, DAY, HUME, LEIGH, MATHERLY, M. PRICE, RILEY, W. H. WILSON.

OTHER COMMITTEES AND BOARDS

ATHLETICS

SLAGLE, Chairman; GRAHAM, JONES, MATHERLY, NORMAN, REED, F. ROGERS, and one other member to be appointed.

DISCIPLINE

CRANDALL, Chairman; BRYAN, ENWALL, TeSELLE, E. S. WALKER.

THE GRADUATE COUNCIL

J. N. ANDERSON, Chairman; BRYAN, HUSA, LEIGH, MEAD, ROGERS, SIMPSON.

INTER-AMERICAN AFFAIRS

MATHERLY, Chairman; ATWOOD, BRISTOL, CRANDALL, HUME, MEAD, TRIBOLET, TURLINGTON, VAN LEER.

SPECIAL COMMITTEE ON PUBLICATION ON ECONOMIC VALUE OF RESEARCH

HUME, Chairman; BLESS, LEIGH, MATHERLY, NOBLE, VAN LEER.

UNIVERSITY OF FLORIDA

SUMMER SESSION, 1932

ADMINISTRATION

(In addition to the regular Administrative Officers.)

JAMES WILLIAM NORMAN, Ph.D.	Director, Summer Session
JOHN M. CROWELL, B.A.E.	Director of Employment Bureau
CHARLOTTE JELKS, B.A.	Dean of Women

FACULTY

JAMES NESBITT ANDERSON, Ph.D.	Latin
MONTGOMERY DRUMMOND ANDERSON, Ph.D.	Business Administration
ERNEST GEORGE ATKIN, Ph.D.	French
ROXIE BAKER, B.A.	Supervising Teacher
ROBERT COLDER BEATY, M.A.	Sociology
TRUMAN C. BINGHAM, Ph.D.	Business Administration
ALVIN PERCY BLACK, B.A.	General Natural Science
LUCIUS MOODY BRISTOL, Ph.D.	Sociology
JOSEPH BRUNET, Ph.D.	French
ALAN BEVERLY BURRITT, M.L.A.	Landscape Design
RANDOLPH L. CARTER, M.A.	Education
WASHINGTON AUGUSTUS CLARK, JR., M.A.	English
ROBERT SPRATT COCKRELL, M.A., LL.B.	Law
JEROME CONNOR, M.A.	Sociology
HENRY PHILIP CONSTANS, M.A.	Speech
LEWIS BRISCOE COOPER, Ph.D.	Education
OLIVE B. COUNTS, M.A.	Library Science
ALFRED CRAGO, Ph.D.	Education
JOHN THOMAS CREIGHTON, M.S.	Entomology
URI PEARL DAVIS, M.A.	Mathematics
JOHN WILLIAM DEBRUYN, M.A.	Glee Club
HASSE OCTAVIUS ENWALL, Ph.D.	Philosophy
JAMES MARION FARR, Ph.D.	English
ANNIE GABRIEL, B.A.	Nursing Education
EDWARD WALTER GARRIS, Ph.D.	Agricultural Education
JAMES DAVID GLUNT, Ph.D.	History
WILLIAM LEWIS GOETTE, M.A.E.	Education
ARTHUR SYLVESTER GREEN, M.A.	History
WILLIAM BYRON HATHAWAY, M.A.	Spanish
FRED HARVEY HEATH, Ph.D.	General Natural Science
THOMAS JEFFERSON HIGGINS, M.A.	Spanish
ELMER DUMOND HINCKLEY, Ph.D.	Psychology
JOE HOLSINGER, B.S.E.E.	Health and Physical Education
FRANKLIN WESLEY KOKOMOOR, Ph.D.	Mathematics
ELLSWORTH GAGE LANCASTER, Ph.D., LL.D.	Education
JAMES MILLER LEAKE, Ph.D.	History
TOWNES RANDOLPH LEIGH, Ph.D.	Chemistry
WILBERT ALVA LITTLE, M.A.	Education
WINSTON W. LITTLE, M.A.	Education
ARTHUR RAYMOND MEAD, Ph.D.	Education, Director, Demonstration School
WILLIE A. METCALFE	Supervising Teacher
JEAN O. MITCHELL	Public School Art
ALTON CHESTER MORRIS, M.A.	English
CHARLES EUGENE MOUNTS, M.A.	English
WILLIAM EDGAR MOORE, M.A.	English
CLAUDE L. MURPHREE, B.A.	Organist

JAMES WILLIAM NORMAN, Ph.D.	Education
NORA NORTON	Education
ANCIL N. PAYNE, Ph.D.	History
CASH BLAIR POLLARD, Ph.D.	Chemistry
MARGUERITE STRATFORD PORTER, B.S., Mus.B.	Public School Music
JOSEPH EDWIN PRICE, B.A.E.	English
DIZA MAE RINKEL	Supervising Teacher
CHARLES ARCHIBALD ROBERTSON, M.A.	English
JAMES SPEED ROGERS, Ph.D.	Biology
MARY BEVERLY RUFFIN, B.A., B.S.	Library Science
ELLIS BENTON SALT, M.A.	Health and Physical Education
PETER C. SCAGLIONE, B.S.B.A.	Business Administration
MARY BELLE SETTLE, B.S.	Health and Physical Education
FANNIE BELL SHAW, M.S.	Health Education
GLENN BALLARD SIMMONS, M.A.E.	Education
THOMAS MARSHALL SIMPSON, Ph.D.	Mathematics
DEAN SLAGLE, M.A., LL.B.	Law
CELESTE SLAUSON, M.S.	Library Science
ELIZABETH RUCKER SMART, M.A.	Education
BUNNIE OTHANEL SMITH, M.A.	Education
HERMAN E. SPIVEY, M.A.	English
O. C. R. STAGEBERG, B.S.	Architecture, Painting and Allied Arts
AGNES G. STORIE, M.A.	Assistant Director, Demonstration School
CLARENCE JOHN TESSELLE, M.A., LL.B.	Law
BENJAMIN ARTHUR TOLBERT, B.A.E.	Education
LESLIE BENNETT TRIBOLET, Ph.D.	Political Science
HARRY RAYMOND TRUSLER, M.A., LL.B.	Law
RUTH NEWELL UPSON	Supervising Teacher
RUBY W. WALLACE, B.A.	Supervising Teacher
FLORA E. WALTER	Handwriting
FRED CURTIS WARD, B.S.	Accounting
OSBORNE WILLIAMS, Ph.D.	Psychology
ROBERT C. WILLIAMSON, Ph.D.	Physics
WILLIAM HAROLD WILSON, Ph.D.	Education
J. HOOPER WISE, M.A.E.	Education
ALBERTA MURPHREE WORTH	Voice

GENERAL EXTENSION DIVISION

HEADQUARTERS—LANGUAGE HALL

BERT CLAIR RILEY, B.S., B.S.A.	Dean
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ELLA M. ALLISON, Ph.B.	Review Courses
ALICE L. ALLISON, B.A.	Mathematics
MARGARET ALLISON	Spanish
MABEL F. ALSTETTER, B.S.E.	Education
BERNICE ASHBURN, B.O.E.	Extra-Curricula Activities
HAROLD BALLOU, M.A.	Spanish
ORTON W. BOYD, M.A., C.P.A.	Accounting
A. W. BRUBAKER, M.A.	Insurance
ANNIE LAURIE BRACKETT, M.A.	English
BLANCHE CAHOON	Art
EDITH MCBRIDE CAMERON, B.A., B.J.	Head, Department Citizenship Training
W. G. CARLETON, B.A., J.D. (Florida)	Political Science
CLEVA CARSON, B.A.	Music
C. C. CARSON, Ed.D. (Havana)	Education
RUTH CAZIER, B.A., B.M.	Music
MAUDE B. DAVIS, B.A.	Reading Courses
AUGUSTA W. DURRANCE, B.A.	English
R. B. ENGLISH, Ph.D. (Michigan)	Philosophy
WALTER E. ERVIN, M.A.	Economics
A. T. GLISSON, B.A.	Spanish
W. B. GOEBEL, M.A.	History
ORTHA POPE GREY, B.A.	Speech
J. LEWIS HALL, B.A.E.	High School Courses
EDWARD W. HARRIS, LL.B., J.D. (Florida)	Business Law
NINA McALLISTER HARRIS, B.A.	Head, Extension Classes
R. E. HARRIS, B.A.	Spanish
MARY HASLINGER, B.A.	Spanish
J. T. HOLDSWORTH, Ph.D. (Pennsylvania)	Business Administration
MARGUERITE BLOCKER HOLMES, M.A.	English
ALBERT D. HUTSON, B.S.E.E.	Mechanical Drawing
HAMPTON M. JARRELL, B.A.	English
MRS. HAMPTON M. JARRELL, B.A.	Latin
JULIA A. KEELER, B.A.	Art
BIRDIE L. KELLY	High School Courses
ANGUS M. LAIRD, M.A.	Political Science
EMMA R. LEWIS	Industrial Arts
R. J. LONGSTREET, B.S.	Nature Study
VIOLA LUDWICK	Art
ELIZABETH McALLISTER, B.A.	English
DAVID F. McDOWELL, M.A.	French and Spanish
LOUISE H. MAHAN, B.A.	Primary Education
WILLIAM MELCHER, Ph.D. (Wisconsin)	Economics
OLIVE MENZ	Public School Music
JEAN O. MITCHELL	Industrial Arts
WILLIAM K. MITCHELL, B.S.M.E.	Head, Auditory Department
J. C. PEEL, M.A.	Education
C. PHIL PETERS, B.A.	Education
ROBERT B. REED, M.A.	Elementary Education
TRILLA REED, B.A.	Elementary Education
MRS. JOSEPH ROEMER, B.S.	Education
JOSEPH ROEMER, Ph.D. (Peabody)	Education

LOLA M. SARGENT, M.A.	German
SR. CATHERINE SEMMES, M.A.	Education
FANNIE B. SHAW, M.A.	Health Education
LUDD M. SPIVEY, M.A., LL.D. (Birmingham-Southern)	Sociology
FLORENCE STUMPF, B.M.	Public School Music
ETHEL C. THOMPSON, B.A.	History
FELICIA WILLIAMS TRAXLER, M.A.	English
G. MANUEL TURNER, LL.B. (Florida)	High School Courses
RUTH NEWELL UPSON	Elementary Education
A. L. VERGASSON, M.A.	Psychology
J. F. DEVILLAFRANCA, M.A.	French
B. R. WELD, B.A.	High School Courses

ASSISTANTS IN ADMINISTRATION

AGRICULTURAL EXPERIMENT STATION

AND

EXTENSION SERVICE

LILLIAN E. ARNOLD, B.S.	Stenographer, Experiment Station
FRANCES GERTRUDE BENDING	Stenographer, Experiment Station
ZILLA LOUISE BODIE	Secretary, Experiment Station
MARGARET BROWNLEE	Secretary, Agricultural Extension Service
DOROTHY MAE BULLARD	Secretary, Agricultural Experiment Station
LAURA KATE CALLAHAN	Stenographer, Agricultural Extension Service
MINNIE CARR	Statistical Clerk and Typist, Agricultural Extension Service
EVA L. DONALDSON	Assistant Mailing Clerk, Experiment Station
GENEVA K. FROST	Statistical Clerk, Experiment Station
ANNIE LEA GREENE	Filing Clerk, Experiment Station
MARY HAMILTON HAILE	Stenographer, Experiment Station
ALLIE W. HOWARD	Statistical Clerk, Agricultural Economics
DORIS ANNETTE JONES	Stenographer, Agricultural Extension Service
RACHEL T. MACQUARRIE	Accountant, Experiment Station, Office of the Business Manager
MARTHA LOUISE MERRELL	Secretary, Experiment Station
SUE POSTELL	Stenographer, Agricultural Extension Service
LUCILLE FOWLER SEAY	Stenographer, Agricultural Economics
ELEANOR C. SMITH	Stenographer, Experiment Station
JANIE LEE TYSON	Cataloger, Experiment Station
CLINTON BURTON VAN CLEFF, M.S.A.	Greenhouse Foreman, Experiment Station
ANA LOU WATSON	Stenographer, Experiment Station
HENRY ZEICLER	Farm Foreman for Agronomy and Animal Husbandry, Experiment Station

ATHLETICS AND PHYSICAL EDUCATION

ADELAIDE YON	Secretary
WOODROW DUKES	Student Assistant
ROBERT WHITE	Student Assistant
ROY PURVIS	Student Assistant

BUSINESS MANAGER AND AUDITOR

MADGE BAKER	Secretary to Business Manager
WILLIE CHEATHAM	Switch Board Operator
MARK EASTLAND, B.S.B.A.	Record Clerk
BYRD C. FRYER	Voucher Clerk
ROBERT N. GARDEN	Invoice Clerk
H. R. GAYLORD	Switch Board Operator
JAMES B. GOODSON	Cashier
SUE HENRY	Purchase Order Clerk
BETTY MCLANE	Clerk
LEE MADDEN	Filing Clerk
THOMAS J. PRICE	Head Bookkeeper
JOHN WINCEY	Voucher Clerk (Part Time)
HOMER D. WINGATE	Auditor Custodian Accounts

COLLEGES AND SCHOOLS

Agriculture

ELEANOR G. SHAW	Secretary, College of Agriculture
A. W. LELAND	Farm Foreman
A. P. MULLINS	Herdsmen
J. V. WATKINS, M.S.A.	Foreman Greenhouse and Grounds, Horticulture

Arts and Sciences

PRISCILLA KENNEDY General Secretary, College of Arts and Sciences
 HERBERT BARRETT MESSEC Curator, Department of Physics

Commerce and Journalism

NANNIE BELLE WHITAKER, B.A. General Secretary, College of Commerce
 and Journalism
 CHARLES J. DREBLOW, B.S.B.A. Stenographer (Part Time)

Architecture and Allied Arts

DOROTHY FOSTER, B.A. General Secretary, School of Architecture and Allied Arts

Education

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Engineering

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 BLANCHE ELAINE JOHNSON Stenographer, Electrical Engineering Department
 R. T. TURNER Mechanician, Drawing and Mechanic Arts
 ELEANOR VANCROM Stenographer (Part Time)

Graduate

LILLIAN WHITLEY General Secretary, Graduate School

Law

ILA R. PRIDGEN General Secretary and Librarian, College of Law
 HUGH LYNN McARTHUR, B.A. Student Librarian

Pharmacy

HELEN F. LANGSLOW, B.A. General Secretary, College of Pharmacy
 MYRA A. McMILLAN Secretary-Librarian, College of Pharmacy
 G. A. BARBER Stockroom Man, Chemistry Department

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 NED A. PATTON Student Assistant (Part Time)
 STEPHEN P. SMITH Student Assistant (Part Time)

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C. V. BOOTH, B.S.E.E. Student Electrician
 FRANK WEAVER Student Electrician

FLORIDA EDUCATIONAL LOAN

DOROTHY LARTIGUE Stenographer

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 DOLLIE DOUTHIT Office Secretary and Assistant
 MARY GETZEN, B.A. Clerk
 LUCILLE HARRIS Stenographer
 GRACE MILLICAN Clerk and Stenographer
 JAMES PATTERSON Equipment Operator
 ELAINE TERRY Stenographer
 BETTEE V. DESHA Stenographer
 ETHEL OLROYD Stenographer

GROUNDS

C. E. NELSON Superintendent of Grounds

INFIRMARY

ROSA GRIMES, R. N. Superintendent
 GLADYS WILSON, R.N. Registered Nurse
 MYRTLE S. MCCARTHY, R.N. Registered Nurse
 MARIE WESLEY, R.N. Registered Nurse

INTER-AMERICAN AFFAIRS

HUEY L. BORDERS Secretary

JANITOR SERVICE

STANLEY JOHNWICK Custodian General Storeroom
 J. E. LARSON, B.A. Custodian Military Property
 A. J. BURNHAM Custodian Military Property
 G. W. MARTIN Messenger Service
 S. S. KENNARD Night Watchman
 H. C. CRAWFORD Night Watchman

LIBRARY

HENRIE MAY EDDY, B.A. Reference Head (On Leave 1932-33)
 AMELIA COLLIER, M.S. Acting Reference Head
 MARY BEVERLEY RUFFIN, B.A., B.S. Catalog Head
 VANNITA WESLEY, B.A. Circulation Head
 ETHEL E. DONAHEY, B.A., B.S. in L.S. Periodicals and Binding Assistant
 ALICE CUMMINS, B.A., B.S. in L.S. Catalog and Reference Assistant
 ELIZABETH THORNE, B.A. Cataloging Assistant

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R. T. IRVING Superintendent of Buildings
 C. H. LANCASTER Assistant Superintendent and Plumber
 J. F. BADGER Carpenter
 T. A. WHITE Plumber
 J. R. BUCHANAN Painter

MILITARY SCIENCE AND TACTICS

JULIAN F. AYERS Sergeant, Field Artillery
 CHARLES H. BELL Top Sergeant, Infantry
 JOSEPH C. BRANDKAMP Sergeant, Field Artillery
 DALLAS B. HUNDLEY Supply Sergeant, Infantry
 WILLIAM D. KLINEPETER Top Sergeant, Infantry
 CHARLES W. MCKEOWN Sergeant, Field Artillery
 JESSE A. VITATOE Sergeant, Infantry

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HERBERT JONES CHAFFER, B.A.E. Collector
 CHARLES E. DOE Curator
 FLORIDE GANTT Secretary

MUSIC

FRANK ANDERSON Student Assistant
 VERNON BLANK Student Assistant
 GEORGE BRUNLEY Student Assistant
 G. W. CLARK Student Assistant
 H. B. DALE Student Assistant
 RAYMOND DAYSON Student Assistant
 HAROLD DELP Student Assistant

HERMAN FITZ	Student Assistant
TRUX JACKSON	Student Assistant
RALPH KIRSCH	Student Assistant
J. C. PARTLOW	Student Assistant
ALBERT PIERCE	Student Assistant
C. B. SCHIRARD	Student Assistant
LUDWIG SCHWARZKOPF	Student Assistant
J. B. SMITH	Student Assistant
FRANK WATTS	Student Assistant
OREN WHITLEY	Student Assistant
D. W. WIGGERT	Student Assistant
TUBLES WILLIAMS	Student Assistant

PLACEMENT BUREAU

ROBERT C. MOON, B.A.E.	Graduate Assistant
WILLIAM A. HERIN, B.A.	Student Assistant

PRESIDENT

MARY PARROTT	Secretary to President
JOHN WAHL	Stenographer (Part Time)

PUBLICITY

ALWYNNE HAZEN	Stenographer (Part Time)
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RADIO—WRUF

WALTER BARBER	Head Announcer and Artist
JAMES L. BUTSCH	Announcer and Artist (Part Time)
F. B. DUNCAN	Chief Operator
CLARK GOURLEY	Staff Artist (Part Time)
H. MARION GULICK, B.S., Ch.E.	Assistant Operator (Part Time)
GEORGE W. HAUG, B.S.E.E.	Assistant Operator (Part Time)
R. B. HOLLAND	Announcer and Artist (Part Time)
MARY HYATT, B.M.	Stenographer and Artist
ALYNE GRAVES KING	Staff Pianist
WILLIAM P. BRYAN	Announcer and Artist
J. RUSSELL McCAUGHAN, B.A.	Announcer and Artist (Part Time)
ROBERT H. MAKEMSON	Announcer and Artist (Part Time)
CALHOUN MORROW	Bookkeeper, Telegraph Operator, and Artist
LOYD PARKS	Staff Artist (Part Time)
MEYEB STOUN	Staff Violinist (Part Time)
JOE WAHLBERG	Janitor and Watchman (Part Time)

REGISTRAR

GLEN CALMES	Chief Clerk
WALLACE O. DONNELLY, B.A.	Stenographer
FRONA GENTILE	Secretary
PENELOPE GRIFFIN, B.A.	Recorder
BEN COGBURN	Student Assistant
RICHARD JOHNSON, B.S. in Ph.	Filing Clerk, Student Assistant
LANUS TROXLER	Student Assistant
LARRY WALRATH, B.A.	Student Assistant
HESKIN A. WHITTAKER	Student Assistant

SOCIAL AND RELIGIOUS SERVICE

SUE HILL, B.S.	Associate Director and Assistant Secretary
---------------------	--

UNIVERSITY BOOKSTORE

HELLICE RATHBUN	Manager and Clerk
MYRA SWEARINGEN	Clerk
FRANCES B. GIBSON	Clerk

GRADUATE ASSISTANTS, STUDENT ASSISTANTS,
FELLOWS, AND SCHOLARS

J. H. AKERMAN	Student Assistant in Drawing
LAWRENCE AMUNDSEN, B.S.....	Graduate Assistant in Chemistry
WILLIAM T. ARNETT, M.A.Arch.	Graduate Assistant in Architecture and Allied Arts
LEONARD C. BAILEY, A.B.	Graduate Assistant in English
GEORGE L. BAKER, Ph.C., B.S.	Graduate Scholar in Chemistry and Pharmacy
ROBERT B. BAKER, B.S.E.E.	Graduate Assistant in Mechanic Arts
CLYDE BASS	Student Assistant in Animal Husbandry
RAYMOND EDWARD BELLAMY	Student Assistant in Biology
R. L. BERRY	Student Assistant in Biology
ROBERT JEFFERSON BISHOP.	Student Assistant in Entomology and Plant Pathology
ALBERT C. BLANCHARD, B.S.B.A.	Research Assistant in Bureau of Economic and Business Research
JOHN A. C. BOGART, B.S.C.E.....	Graduate Assistant in Civil Engineering
RALPH RUDOLPH BOTTS	Student Assistant in Agricultural Economics
ERNEST J. BOWYER	Student Assistant in Football
CLYDE A. BRADY	Student Assistant in Chemical Engineering
JARRELL E. BUCHANAN	Student Assistant in Journalism
HUGH F. BUTNER	Student Assistant in Botany
THEODORE CARNOW	Student Assistant in Physics
ARCHIE FAIRLY CARR	Graduate Assistant in Biology
ALLEN T. COLE, B.S.	Graduate Assistant in Chemistry
JAMES DEWBERRY COPELAND, B.S.B.A.	Graduate Assistant in Economics
RONALD J. CUTLER, B.A.E.	Graduate Scholar in English
JAMES B. DAVID, B.S.Ch.E.	Graduate Assistant in Chemical Engineering
RUSSELL HENRY DEGROVE	Student Assistant in Civil Engineering
WILLIAM W. DISHONG	Student Assistant in Physical Education
HUBER EARLE, B.S.B.A.	Graduate Scholar in Economics
LAWRENCE M. EMANUEL, B.S.Ch.E.	Graduate Scholar in Chemical Engineering
ARTHUR POPE EVANS	Student Assistant in Horticulture
RALPH MAY FAGLIE	Student Assistant in Dairying
LEO B. FAIN	Student Assistant in Agricultural Chemistry
PAUL FEHDER, B.S.	Graduate Assistant in Pharmacy
J. G. FITZPATRICK	Student Assistant in Drawing and Mechanic Arts
WILLIAM T. FORSEE, M.S.	Graduate Assistant in Chemistry
HIRAM DWIGHT FREEMAN, B.S.A.	Graduate Assistant in Agricultural Engineering
JOHN WESLEY FRIESNER	Student Assistant in Horticulture
RICHARD J. GARDNER	Student Assistant in Economics
FRED STEWART GILBERT	Student Assistant in Biology
PHILLIP B. GLANCY	Student Assistant in Physical Education
ALAN DOUGLAS GRINSTED, B.A.	Graduate Assistant in Sociology
JOE T. HALL, JR.	Student Assistant in Chemistry
JOSEPH RUSSELL HENDERSON, B.S.A.	Graduate Assistant in Agronomy
PAUL W. HILLS	Student Assistant in Chemistry
GEORGE M. HOCKING, M.S.Pharm.	Graduate Assistant in Pharmacognosy
JAMES H. HUNTER.	Student Assistant in Chemistry
CLEMENT LEE HUYCK, B.S.Pharm.	Graduate Scholar in Pharmacy and Chemistry
J. B. JOHNSON, JR.	Student Assistant in Physical Education
STEVE RENWICK JOHNSTON	Student Assistant in Biology
VERNON JONES, B.A.	Graduate Scholar in Chemistry
DICK WOODSON JUDY	Student Assistant in Psychology
EMERSON M. KEELER, B.S.E.E.	Graduate Assistant in Electrical Engineering
J. L. KLOTZ, M.S.Pharm.	Graduate Scholar in Pharmacy
CHARLES MERRITT LEAR, B.S.E.E.	Graduate Assistant in Physics
EVAN T. LINDSTROM, B.S.	Graduate Assistant in Physics

GLEN H. LUCAS	Student Assistant in Agronomy
HAROLD J. LYNCH, M.S.Pharm.....	Graduate Assistant in Pharmacy
ROBERT CHARLES McCLANAHAN	Student Assistant in Biology
LOUIS G. McDOWELL	Student Assistant in Chemistry
ANDREW P. McLEAN	Student Assistant in Chemistry
LOUIS LaFORCE McQUITTY	Student Assistant in Psychology
WILLIAM ALLAN McRAE, B.A.	Student Assistant in Football
LOUIS MACID, M.S.Pharm.	Fellow of American Pharmaceutical Association
MELVIN ORLANDO MAINES	Student Assistant in Poultry Husbandry
E. B. MANSFIELD	Student Assistant in Mechanic Arts
ALBERT G. MANUCY, B.A.E.	Graduate Scholar in English
SAM MARSHALL	Student Assistant in Accounting
DENNIS E. MILLER	Student Assistant in Physical Education
WILLIAM GILBERT MILLER, B.A.	Graduate Scholar in Mathematics
WILLIAM WHITFIELD MILLER	Student Assistant in Civil Engineering
JOHN B. MINARDI	Student Coach of Boxing
JOHN A. MORROW, M.A.	Graduate Assistant in Chemistry
MILLEDGE MURPHEY, JR.....	Student Assistant in Entomology and Plant Pathology
RANDALL ROBERT MUSSELMANN	Student Assistant in Bacteriology
EUGENE R. NELSON	Student Assistant in Agricultural Engineering
JOHN GORDON PATTERSON	Student Assistant in Civil Engineering
JAMES F. PAYNE, B.S.E.E.....	Graduate Assistant in Physics
DEXTER A. PILLSBURY, Student Assistant in Business Administration and Economics	
CHARLES BARTLETT PINNEY, B.A.....	Graduate Scholar in Economics
MRS. JEANETTE RADIN PINSKER, M.S.Pharm.....	Graduate Assistant in Pharmacy
WILLIAM JOSHUA PLATT, JR.....	Student Assistant in Veterinary Science
CARLOS RAY PROCTOR	Student Assistant in Football
JOHN WILLAM PRUNTY, B.A.	Graduate Assistant in Speech
PORTER REYNOLDS	Student Assistant in Botany
DONALD EDWIN RILEY, B.S.	Graduate Scholar in Pharmacy
JOHN A. ROBERTS	Student Assistant in Agricultural Chemistry
MITCHELL MILTON ROSENBERG, B.A.E.	Graduate Scholar
HARWOOD ROSSER, B.A.	Graduate Scholar in Mathematics
JOHN ORIAN ROWELL, B.S., Graduate Assistant in Entomology and Plant Pathology	
G. G. SADLER	Student Assistant in Biology
HOYT SHERARD, M.S.A.	Fellow in Agronomy
OTIS E. SMITH	Student Assistant in Agricultural Engineering
WILLIAM J. SNOYENBAUS, Ph.B.	Graduate Assistant in Economics
ALVIN HAROLD SPURLOCK, B.S.A.E.....	Graduate Assistant in Marketing and Agricultural Products
VINCENT E. STEWART	Student Assistant in Chemistry
FORREST R. STREB	Student Assistant in Chemistry
CARREL I. TOD, B.A.	Graduate Assistant in Farm Management
R. P. TROGDEN, B.S.	Graduate Assistant in Biology
ROBERT C. UNKRICH, B.S.B.A.	Research Assistant in Bureau of Economic and Business Research
THOMAS ROBA WEBB, B.S.E.E.....	Graduate Assistant in Physics
SIDNEY W. WELLS, B.S.A.....	Graduate Assistant in Agricultural Chemistry
GEORGE BEARDEN WILLIAMS.....	Student Assistant in Agricultural Education
ALFRED EDGAR WILSON, B.A., LL.B.....	Student Assistant in Mechanical Engineering
HENRY Y. WILSON, B.S.E.	Graduate Scholar in Spanish
THOMAS WILBUR YOUNG, B.S.	Graduate Assistant in Horticulture

REPORT OF ENROLLMENT FOR THE YEAR 1931-32

COLLEGE OF ARTS AND SCIENCES:

Freshman Bachelor of Science.....	82		
Freshman Bachelor of Arts.....	47		
Freshman Pre-Medical	97		
Freshman Pre-Law	41	267	
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Sophomore Bachelor of Science.....	51		
Sophomore Bachelor of Arts.....	39		
Sophomore Pre-Medical	52		
Sophomore Pre-Law	48	190	
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Junior Bachelor of Science.....	44		
Junior Bachelor of Arts.....	30	74	
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Senior Bachelor of Science	34		
Senior Bachelor of Arts.....	24	58	
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Special Bachelor of Science.....	10		
Special Bachelor of Arts.....	1		
Special Pre-Medical	4		
Special Pre-Law	1	16	605
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COLLEGE OF COMMERCE AND JOURNALISM:

Freshman Business Administration.....	161		
Freshman Business Administration and Engineering...	13		
Freshman Business Administration and Law.....	42		
Freshman Journalism	27	243	
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Sophomore Business Administration.....	126		
Sophomore Business Administration and Engineering	5		
Sophomore Business Administration and Law.....	24		
Sophomore Journalism	17	172	
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Junior Business Administration	83		
Junior Business Administration and Law.....	4		
Junior Journalism	15	102	
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Senior Business Administration	57		
Senior Business Administration and Law.....	1		
Senior Journalism	6	64	
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Special Business Administration	10		
Special Business Administration and Engineering.....	1		
Special Business Administration and Law.....	2		
Special Journalism	1	14	595
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COLLEGE OF ENGINEERING:

Freshman Engineering	151	151	
Sophomore Chemical Engineering.....	24		
Sophomore Civil Engineering	15		
Sophomore Electrical Engineering	33		
Sophomore Mechanical Engineering.....	30	102	
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Junior Chemical Engineering.....	11		
Junior Civil Engineering	10		
Junior Electrical Engineering	25		
Junior Mechanical Engineering.....	7	53	
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Senior Chemical Engineering	15		
Senior Civil Engineering	10		
Senior Electrical Engineering	19		
Senior Mechanical Engineering.....	7	51	
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Special Engineering	5		
Special Civil Engineering	3		
Special Electrical Engineering	1		
Special Mechanical Engineering.....	4	13	370
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COLLEGE OF EDUCATION:

Freshman Bachelor of Arts in Education.....	36		
Freshman Bachelor of Science in Education	18		
Freshman Bachelor of Science in Manual Arts	4		
Freshman Bachelor of Science in Agricultural Education	3		
Freshman Health and Physical Education.....	42	103	
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Sophomore Bachelor of Arts in Education.....	29		
Sophomore Bachelor of Science in Education.....	21		
Sophomore Bachelor of Science in Manual Arts.....	2		
Sophomore Bachelor of Science in Agricultural Education	3		
Sophomore Health and Physical Education.....	29	84	
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Junior Bachelor of Arts in Education.....	22		
Junior Bachelor of Science in Education.....	19		
Junior Bachelor of Science in Manual Arts.....	1		
Junior Bachelor of Science in Agricultural Education	2		
Junior Health and Physical Education.....	13	57	
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Senior Bachelor of Arts in Education.....	39		
Senior Bachelor of Science in Education.....	12		
Senior Bachelor of Science in Agricultural Education	3		
Senior Health and Physical Education.....	8	62	
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Special Bachelor of Arts in Education.....	14		
Special Bachelor of Science in Education.....	4		
Special Health and Physical Education	7	25	331
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COLLEGE OF AGRICULTURE:

Freshman Agriculture	66		
Freshman Landscape Design	5	71	
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Sophomore Agriculture	62		
Sophomore Landscape Design	4	66	
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Junior Agriculture	35		
Junior Landscape Design	1	36	
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Senior Agriculture	36	36	
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Special Agriculture	22		
One-Year Agriculture	4		
Special Landscape Design	1	27	236
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COLLEGE OF LAW:

Freshman Law	84		
Junior Law	66		
Senior Law	59	209	209
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THE GRADUATE SCHOOL:

Graduate	145	145	145
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SCHOOL OF ARCHITECTURE AND ALLIED ARTS:

Freshman Architecture	25		
Freshman Painting	7	32	
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Sophomore Architecture	9		
Sophomore Painting	7	16	
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Junior Architecture	7		
Junior Painting	1	8	
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Senior Architecture	13	13	
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Special Architecture	2		
Special Painting	1	3	72
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COLLEGE OF PHARMACY:

Freshman Pharmacy	24		
Sophomore Pharmacy	11		
Junior Pharmacy	9		
Senior Pharmacy	8		
Special Pharmacy	4	56	56
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Total 2619

Less duplicates as follows:

5 A.B. and 5 B.Ad.	1
5 B.S.E. and Grad.	1
4 B.Ad. & L. and 2 L.	1
4 A.B. and 2 L.	3
4 A.B. and 3 L.	3
4 B.S. and Grad.	1
4 B.A.E. and 3 L.	1

4 B.A.E. and 2 L.	1
4 B.A.E. and 1 L.	1
4 A.B. and 5 M.E.	1
4 A.B. and Grad.	1
4 E.E. and Grad.	1
4 E.E. and 5 B.S.E.	1
4 B.S.A.E. and Grad.	1
3 B.Ad. and 1 L.	1
3 B.S. and 3 B.S.E.	1
3 A.B. and 1 L.	2
2 B.S.E. and P.M.	1
2 B.Ad. & L. and 2 B.A.E.	1
2 B.S. and 2 Pg.	1
2 B.S. and 2 Ch.E.	1
2 P.M. and 2 Ph.	1
2 P.L. and 3 B.Ad.	1
2 P.L. and 2 Ag.	1
2 C.E. and 1 L.	1
2 Ch.E. and 2 Ag.	1
2 M.E. and 2 B.S.M.A.	1
1 B.Ad. and 1 B.A.E.	1
1 B.Ad. and 1 Ag.	1
1 B.Ad. and 1 E.	1
1 B.Ad. & E. and 1 E.	1
1 B.Ad. & E. and 1 Ag.	1
1 B.Ad. and L. and 1 E.	1
1 J. and 2 B.A.E.	1
1 E. and 1 B.S.E.	1
1 E. and 1 Ag.	1
1 E. and 1 B.A.E.	1
1 B.S. and 1 B.A.E.	1
1 B.S. and 1 E.	6
1 B.S. and 1 B.Ad. and E.	1
1 B.S. and 1 B.Ad.	1
1 B.S. and 1 Ag.	1
1 B.S. and 1 H.Pl.	1
1 A.B. and 1 B.Ad.	1
1 A.B. and 1 B.S.E.	1
1 A.B. and 1 E.	1
1 P.M. and 1 Ph.	2
1 P.L. and 1 A.	1
1 P.L. and 1 Ag.	1
1 Ag. and 1 A.	1
GRAND TOTAL ENROLLMENT	2558

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COMPOSITE OF ALL COLLEGES

Freshmen	891
Sophomores	641
Juniors	339
Seniors	292
Law and Graduates	354
Special Students	102
Total	2619
Less Duplicates	61
GRAND TOTAL	2558

WOMEN STUDENTS
(Included in foregoing)

COLLEGE OF COMMERCE AND JOURNALISM:			
Junior Journalism	2		
Senior Business Administration	1	3	
COLLEGE OF ARTS AND SCIENCES:			
Junior Bachelor of Arts	1	1	
COLLEGE OF LAW:			
Freshman Law	1		
Junior Law	3	4	
SCHOOL OF ARCHITECTURE AND ALLIED ARTS:			
Special Architecture	1	1	
GRADUATE SCHOOL:			
Graduates	13	13	
COLLEGE OF EDUCATION:			
Special Bachelor of Arts in Education.....	1	1	
COLLEGE OF AGRICULTURE:			
Sophomore Agriculture	1	1	
Special Landscape Design	1	1	25

REPORT OF ENROLLMENT, SUMMER SESSION 1932

A. Number enrolled (16 years of age and over):	<i>Men</i>	<i>Women</i>	<i>Total</i>
(1) College of Education	283	844	1127
(2) College of Arts and Sciences.....	124	44	168
(3) Graduate School	99	51	150
(4) College of Commerce and Journalism.....	86	21	107
(5) College of Agriculture	56	0	56
(6) College of Law	49	2	51
(7) College of Engineering	33	0	33
(8) School of Architecture and Allied Arts.....	3	2	5
(9) College of Pharmacy	2	0	2
Total	735	964	1699
B. Number enrolled (under 16 years of age) in the Demonstration School of the College of Education:			
(1) Beginners	7	3	10
(2) First Grade	4	4	8
(3) Second Grade	5	5	10
(4) Third Grade	2	3	5
(5) Fourth Grade	2	4	6
(6) Fifth Grade	0	1	1
(7) Sixth Grade	5	2	7
Total	25	22	47
GRAND TOTAL	760	986	1746

STUDENT ROLL

REGULAR SESSION, 1931-32

The classification of students is indicated by the following abbreviations:

PL—Pre-Law; PM—Pre-Medical; AB or BS—College of Arts and Sciences; Ag—College of Agriculture; B Ad, B Ad & E or B Ad & L—College of Commerce; J—Journalism; E—College of Engineering; ChE—Chemical Engineering; CE—Civil Engineering; EE—Electrical Engineering; ME—Mechanical Engineering; A—School of Architecture; Pg—Painting; G—Graduate School; L—College of Law; P—College of Pharmacy; BAE, BSE, BSAE, HPI—College of Education; 1, 2, 3, 4—First, Second, Third and Fourth years, respectively; 5—Adult Special Students.

<i>Name and Classification</i>	<i>Address</i>	<i>Name and Classification</i>	<i>Address</i>
Abbott, Ouida D., G.	Gainesville	Applegate, Frederick W., 1 L.	St. Petersburg
Abbott, Richard E., 2 BS.	Gainesville	Archibald, Robert B., 3 L.	Jacksonville
Abbott, Walter H., 2 PM.	Century	Armstrong, James H., 1 E.	Plant City
Adams, Hugh J., 1 B Ad.	Sarasota	Armstrong, Jess D., 2 BSE.	Jacksonville
Adams, John P., 1 PM.	Panama City	Arnett, William T., G.	Gainesville
Adams, John T., 1 J.	Tampa	Arnold, Lillian E., G.	Gainesville
Adams, Robert M., 2 BS.	Ft. Pierce	Arnold, P. T. Dix, G.	Bradenton
Adams, Sam H., 5 BS.	Tampa	Arnold, Walter G., 1 BS.	Jacksonville
Adelson, Dave E., 4 BS.	Tampa	Arnow, Matthew, 3 BS.	Hawthorn
Ahrano, Fritz W., 2 CE.	Tampa	Arnow, Winston E., 2 L, 4 B Ad.	Gainesville
Ainsworth, R. B., 1 BS.	Mason City, Ill.	Ash, Albert L., 3 BAE.	Tarpon Springs
Akerman, Alex, Jr., 2 L.	Orlando	Ashkenazy, Irving, 3 J.	Tallahassee
Akerman, J. H., 3 ME.	Gainesville	Ashmead, Albert L., 3 B Ad. So.	Jacksonville
Akerman, William Y., 2 PL.	Orlando	Ashmore, Clinton N., 1 PL.	Sopchoppy
Akin, Elisha G., 3 L.	Winter Park	Ashmore, Freeman W., 4 BS.	Gainesville
Alberson, Fisher L., 1 J.	Chipley	Ashmore, John D., 1 B Ad.	Gainesville
Albritton, Elbert J., 1 E.	Brewster	Atherton, James L., 2 CE.	Mound City, Ill.
Albritton, Robert H., 5 HPI.	Bowling Green	Atkins, Cedric D., 1 PM.	Winter Haven
Alderman, John D., 1 B Ad & L.	Jacksonville	Atkins, George W., 4 BAE.	Blountstown
Alexander, C. N., 2 BS.	Clearwater	Atkinson, George W., 1 BAE.	Tallahassee
Alexander, Hugh B., 1 BS.	Lake Wales	Augat, John G., 4 BS.	Attleboro, Mass.
Alexander, Louis G., 1 BS.	Tampa	Aurich, Carlos E., 2 B Ad.	Ferrenafe, Peru
Alexander, Philip O., 2 BAE.	Cynwyd, Penn.	Aurich, Jose U., 2 Ag.	Ferrenafe, Peru
Alford, Julian R., 2 B Ad.	Tallahassee	Ausley, John C., 2 B Ad.	Tallahassee
Algee, Lucian S., 2 PL.	Orlando	Austin, Marion F., 3 Ag.	Leesburg
Alison, John R., 1 E.	Gainesville	Austin, Merton J., 4 B Ad.	Orlando
Allan, Charles G., 2 PL.	Fernandina	Austin, Robert E., 1 E.	Jacksonville
Allen, Ben Chas., 1 AB.	Greenville	Avent, Robert M., 1 L.	Jacksonville
Allen, Dantzer G., 1 B Ad.	Tampa	Avera, William D., 3 J.	Gainesville
Allen, Edward F., 1 PL.	W. Palm Beach	Axtell, Boyd V., 2 L.	Gainesville
Allen, James M., 2 BS. N. Wilkesboro, N. C.		Ayres, James L., 3 B Ad.	Brooksville
Alleyne, Morris C., 2 B Ad.	Gainesville	Ayres, Wendell P., 1 E.	Miami
Allison, Karl M., 2 EE.	St. Cloud	Ayres, Willard W., 4 BAE.	Miami
Alonso, Wesley J., 4 P.	Gainesville	Babcock, Claude G., 4 B Ad.	Key West
Altman, Robert D., 2 BSE.	Wauchula	Baber, William E., 2 P.	Green Cove Springs
Amason, Horace H., 2 BAE.	Cedar Key	Babers, H. J., 4 BS.	Gainesville
Amberg, James H., 1 AB.	Hickman, Ky.	Bach, Robert Wm., 1 A.	Tarpon Springs
Ames, Burton W., G.	Gainesville	Badger, Louie F., 1 B Ad.	Gainesville
Ames, William T., 2 PM.	Pensacola	Baer, Allen O., G.	Omaha, Nebr.
Amundsen, Lawrence H., G.	Clarksville, Ark.	Baggett, Charles E., G.	Wauchula
Anchors, Garner B., 2 Ch E.	Niceville	Baggett, Gordon A., 1 B Ad.	Daytona Beach
Anderson, Allan M., 1 A.	Gainesville	Bailey, Doyle L., 1 B Ad.	Winter Haven
Anderson, Cyrus E., 2 B Ad.	Jacksonville	Bailey, Leonard C., 4 AB.	Ocala
Anderson, David W., 1 E.	Jacksonville	Rain, Joseph P., 1 BS.	Gainesville
Anderson, Frank N., 4 B Ad.	Gainesville	Baker, Allen, 2 AB.	Shoals, Ind.
Anderson, George W., 1 BS.	Gainesville	Baker, Charles O., 2 P.	Tampa
Anderson, Oliver W., 4 Ag.	Dade City	Baker, Harry K., 3 J.	Washington, D. C.
Anderson, Parker D., 1 E.	Lake Mary	Baker, Ira Lee, 4 HPI.	Delray Beach
Anderson, Ralph R., 1 E.	Jacksonville	Baker, James A., 2 B Ad.	Jacksonville
Anderson, Robert T., 3 B Ad.	Gainesville	Baker, Joel R., 1 E.	Orlando
Anderson, Wallace B., 2 B Ad.	Tampa	Baker, Leonard J., 2 P.	Jacksonville
Andrews, Byron K., 3 BAE.		Baker, Robert B., 4 EE.	Hawthorn
	Green Cove Springs	Baldwin, Edgar M., 1 B Ad & L.	
Andrews, Charles, 1 L.	Orlando		Winter Park
Andrews, Charles L., 1 P.	Boynton	Baldwin, Hildreth C., 3 L.	Port Tampa City
Andrews, Francis L., 3 B Ad.	Pensacola	Baldwin, John C., 2 PM.	Pensacola
Andrews, Guy, 2 Ag.	New River	Baldwin, Nicholas R., 1 P.	Alachua
Anske, L. H., 2 EE.	Jacksonville	Baldwin, Vaniah H., 4 BAE.	St. Petersburg
Anthony, Augustus P., 1 E.	Jacksonville	Ball, Arthur C., 1 E.	Tarpon Springs

<i>Name and Classification</i>	<i>Address</i>	<i>Name and Classification</i>	<i>Address</i>
Ballard, Robert A., 1 Ag.	Miami	Beville, James W., 3 EE.	Gainesville
Ballentine, Corbin C., 2 B Ad.	Orlando	Bevis, Napoleon B., 2 BSAE.	Bascom
Banks, Richard G., 2 BSE.	Lake Worth	Bialolenki, Andre S., 1 BSE.	.....
Barber, Frederick Wm., 3 Ag.	Pensacola	.....	Long Island City, New York
Barber, George A., 5 BS.	Gainesville	Biddle, Luther C., 1 BS.	Century
Barcus, David F., 1 Ag.	Leesburg	Biddle, Homer M., 3 BSE.	Bunnell
Barker, Albert F., 3 L.	Jacksonville	Biggers, Howard O., 2 ME.	Miami
Barker, Judson P., 5 Ag.	Wildwood	Biggers, Willard B., 4 BS.	Miami
Barker, Roger A., 2 B Ad & L.	Orlando	Bijou, Sidney W., 3 B Ad.	Gainesville
Barksdale, G. E., 3 ChE.	.....	Bilderbeck, James L., 4 BSE.	Newberry
Barnes, Edward A., 3 EE.	Kissimmee	Bilinski, Leo M., 2 Ag.	Monticello
Barnes, F. F., 2 ME.	Titusville	Bir, George P., 1 L.	Miami
Barnes, Howard E., 1 BAE.	Ft. Lauderdale	Bird, Allen W., 2 Ag-2 ChE.	.....
Barnes, John R., 1 B Ad.	Lakeland	.....	Port Washington, N. Y.
Barnett, Charles, 2 AB.	Mt. Dora	Birdsall, John H., 1 E.	W. Palm Beach
Barnett, Harlow, 2 B Ad.	Jacksonville	Birmingham, George W., G	.....
Barnett, Hugh A., 1 AB.	Melrose	.....	Jamestown, N. Dak.
Barnett, Lucian P., 3 EE.	Tarpon Springs	Birnbrant, Sam H., 1 J.	Jacksonville
Barnhill, Lester R., 2 J.	Greenacres City	Bisant, Oscar M., 3 L.	Jacksonville
Barnum, John M., 3 AB.	Miami	Bishop, Howard W., 3 HPI.	Gainesville
Barrineau, James A., 4 Ag.	Pensacola	Bishop, Robert J., 1 Ag.	Bishopville
Barron, Sumner, 1 PL.	Miami Beach	Bissant, Arthur M., 2 Ag.	Winter Haven
Barrow, David C., 3 ME.	Desoto City	Bitting, Hubert H., 2 EE.	Ocala
Barrow, Tom L., 1 B Ad & E.	Desoto City	Black, Archibald M., 3 L.	Port Huron, Mich.
Bartlet, R. G., 1 B Ad.	Vero Beach	Black, Henry T., 3 B Ad.	Lakeland
Barton, Thomas B., 1 B Ad & L.	Orlando	Black, Robert C., 4 B Ad.	Plant City
Bass, Clyde, 3 Ag.	Live Oak	Blackburn, Robert Ed., 2 B Ad.	Tampa
Bass, Joe, G.	Jacksonville	Blair, Collis C., 3 AB.	Quincy
Bass, Roscoe J., 1 HPI.	Avon Park	Blake, Fremont H., 1 B Ad.	Palatka
Bassett, Albert, 2 AB.	Miami	Blank, Vernon L., 1 E.	Daytona Beach
Bates, Howard W., 1 B Ad.	Daytona Beach	Blankner, Leonard F., 2 J.	Orlando
Batey, Granville E., 2 PM.	Jacksonville	Blocker, Frank E., 1 BAE.	Blanton
Baatten, Earl R., 3 CE.	Tampa	Blowers, Tom H., 2 B Ad.	Ocala
Bauer, George F., 4 Ag.	Pensacola	Boardman, Philip E., 1 E.	Avon Park
Baxter, Francis S., 1 BAE.	Gainesville	Bobbit, Samuel J., 1 PM.	Miami
Beach, Richard H., 2 BSE.	Daytona Beach	Bogart, John Allen C., G.	Gainesville
Beadle, Harry A., 1 Ag.	DeLand	Bolles, George C., 1 AB.	Miami
Beardsley, James L., 1 J.	Dunedin	Boltin, Herbert H., 1 PM.	Gainesville
Beasley, Clarence W., 3 BAE.	Gainesville	Bolton, Charles H., 2 ME.	W. Palm Beach
Beasley, O. A., 2 EE.	Umatilla	Bonacker, Velma S., G.	Citra
Beaty, Ralph W., 1 E.	Plant City	Bond, Robert M., 2 B Ad.	DeLand
Bechtol, Joseph F., 5 B Ad.	Daytona Beach	Bond, Joseph C., 4 BSE.	Tampa
Bech, Dow G., G.	Ocala	Bone, Elmer E., 1 Ag.	Gainesville
Beck, George V., 2 HPI.	New Smyrna	Bonifield, Charles L., 2 L.	Cincinnati, O.
Beckelman, Harold M., 2 PM.	Ocala	Booth, Clyde V., 4 EE.	Daytona Beach
Beers, George W., 2 PM.	Orlando	Borders, Harry W., 1 B Ad.	Allensville, Ky.
Beers, Meril S., 3 BS.	Wabasso	Boring, J. W., 2 B Ad & L.	Lakeland
Beery, Marvin C., 1 E.	Orlando	Borders, Huey L., 5 Ag.	Gainesville
Beeson, William B., 3 B Ad.	Wauchula	Bostain, William M., 1 Pg.	Tallahassee
Beggs, Charles A., 2 PM.	Pensacola	Bostwick, Jackson L., 2 PM.	Miami
Belcher, William A., 1 PM.	Gloucester, Va.	Bostwick, Robert S., 4 ME.	Jacksonville
Bell, Kiliaen W., 5 BS.	Barberville	Bostwick, T. W., 4 ME.	Jacksonville
Bell, Stuart C., 4 Ag.	Barberville	Botts, Harry, 1 B Ad & L.	Fort Myers
Bell, Tom D., 3 ME.	Arcadia	Boudet, Marcel A., 4 Ag.	Lake Worth
Bell, Walter B., 4 B Ad.	Daytona Beach	Boulware, Charles C., 1 B Ad.	Tallahassee
Bell, William B., 3 AB.	Daytona Beach	Bower, Hollis E., 1 E.	Gainesville
Bellamy, Raymond E., 1 BS.	Tallahassee	Bowers, Edward L., 3 BSE.	Gainesville
Bellinger, Buford P., 1 PM.	Tampa	Bowlin, Merle A., 1 E.	Jacksonville
Bender, Fred William, 2 Ag.	Sanford	Bowman, William H., 1 B Ad.	Tampa
Bennett, Charles E., 1 L.	Tampa	Boyce, Hazen D., 2 Ag.	Sebring
Bennett, Russell H., 1 E.	Jacksonville	Boyd, Charles W., 4 BS.	Gainesville
Benton, Robert T., 1 E.	Gainesville	Boyd, Randolph W., 4 BAE.	Jacksonville
Berg, Henry C., 2 PL.	Jacksonville	Boyer, Kenneth F., 2 PM.	Orlando
Bergert, John F., 2 B Ad.	Loughman	Boyette, James A., 2 HPI.	Jacksonville
Bergman, Harry R., 1 B Ad & L.	.....	Boyte, James D., 1 E.	Leesburg
.....	West Palm Beach	Bracuto, Peter, 4 BAE.	Gainesville
Berk, Isadore B., 2 B Ad.	Jacksonville	Bradfield, Jack, 2 PL.	Miami
Berman, Melvin J., 1 E.	Crestview	Bradley, Edwin L., 2 P.	Green Cove Springs
Bernhard, Drayton D., 2 ME.	Daytona Beach	Bradley, Roy A., 1 P.	Palmetto
Bernst, Armand F., 3 AB.	Ft. Lauderdale	Bradley, Wm. M., 2 Ag.	Homestead
Berry, F. J., 4 BAE.	Alachua	Bradner, Wesley M., 2 HPI.	Mt. Dora
Berry, Robert L., 1 PM.	Orlando	Bradshaw, Donald G., 4 B Ad.	Lake Jovita
Bessent, James O., 1 E.	Jacksonville	Bradshaw, Harley L., 1 PL.	Jennings
Best, Paul A., 2 B Ad & L.	West Palm Beach	Bradshaw, Samuel A., 1 Ag.	San Antonio

<i>Name and Classification</i>	<i>Address</i>	<i>Name and Classification</i>	<i>Address</i>
Brady, Clyde A., 4 Ch E.	Leesburg	Butler, William O., G.	So. Jacksonville
Brady, Robert C., 5 Ag.	Titusville	Butner, H. F., 3 Ag.	DeLand
Bragassa, Louis T., 1 PM.	Key West	Butt, Thomas C., 4 BS.	Orlando
Brannan, Raymon H., 1 PL.	Kissimmee	Butts, Harold L., 2 B Ad.	Ft. Lauderdale
Bransford, Lee E., 1 PM.	Jacksonville	Butts, John L., G.	Miami
Brant, Ishmail W., 2 HPI.	Ocklawaha	Byers, Chas. V., 1 B Ad.	Wilkinsburg, Pa.
Brantley, James W., 4 BS.	Grandin	Eyrnes, Robert E., 3 B Ad.	Jacksonville
Braren, Herbert H., 2 BS.	Daytona Beach	Cagnina, Louis D., 3 B Ad & L.	Tampa
Braun, Charles Wm., 1 E.	Daytona Beach	Cain, John C., 1 Ag.	Perrine
Breman, Philip J., 1 E.	Coral Gables	Caldwell, Charles B., 4 BAE.	DeLand
Bremer, DeLa W., 1 BSMA.	Jacksonville	Caldwell, Jonathan Q., 2 BAE.	DeLand
Brewster, S. C., 3 Ag.	Hilliard	Caldwell, Robert C., 5 HPI.	Orlando
Breze, John H., 2 B Ad & E.	Delray Beach	Calhoun, Paul W., G.	Madison
Bridges, Claude F., 3 BSE.	Trenton	Calihan, Lynn C., 2 AB.	Manatee
Bridges, George F., 1 AB.	Gainesville	Callery, George L., 5 Ag.	Pittsburgh, Pa.
Bridges, Harold L., 1 PM.	Waldo	Calmes, Claud C., 2 ME.	Gainesville
Bridges, Paul L., 2 J.	Waldo	Calmes, Glenn B., 5 B Ad.	Gainesville
Briggs, Wynfred R., G.	Gainesville	Calvo, John F., 2 B Ad.	Jacksonville
Brinkley, Harry J., 4 Ag.	Jacksonville	Cameron, Herbert D., 5 J.	Tampa
Bristol, Loris R., G.	Gainesville	Cameron, Lindsay F., 5 Ag.	Jacksonville
Broadus, Horton, 2 Ag.	Lakeland	Cammack, Ralph S., 2 BS.	Maitland
Brockett, George G., 1 B Ad.	Titusville	Camp, Paul D., G.	Gainesville
Brooks, Richard L., 4 Ag.	Bayshore	Camp, Ray J., 2 Ch E.	White Springs
Brown, Arthur W., 1 PL.	New York City	Campbell, Harry G., 1 BAE.	Fernandina
Brown, Carl W., 1 BAE.	St. Petersburg	Campbell, James T., 4 BAE.	Zephyrhills
Brown, Charles E., 5 Ag.	Gainesville	Campbell, Jean I., 4 Ch E.	Ft. Pierce
Brown, Clyde A., 1 E.	Lake City	Campbell, Robert L., 1 Ag.	Clearwater
Brown, Curtis W., 2 B Ad.	Gainesville	Campbell, William L., 4 BSE.	Kissimmee
Brown, Dale J., 2 Ag.	Gainesville	Cannon, Ray J., 3 B Ad.	Waterloo, N. Y.
Brown, Edward H., 2 PL.	Miami	Canova, Oscar N., 1 HPI.	Waldo
Brown, George W., 1 E.	W. Palm Beach	Capitano, Nicholas, 1 PM.	Tampa
Brown, Glenn L., 2 Ag.	Sorrento	Caraballo, Julian E., 3 EE.	Tampa
Brown, H. Drennen, 3 HPI.	Leesburg	Caraballo, Martin, Jr., 2 L.	Tampa
Brown, Homer S., 1 B Ad.	Jacksonville	Carlisle, William M., 2 BS.	Jacksonville
Brown, Irving P., 1 E.	Green Cove Springs	Carlson, Stig G., 1 Ag.	Lake Hamilton
Brown, Jay W., 1 E.	Ocala	Carlton, Doyle I., 3 AB.	Cocoa
Brown, John M., 2 B Ad.	St. Petersburg	Carlton, E. Odell, 4 BSE.	Wauchula
Brown, Marion E., 1 B Ad.	Lake Worth	Carlton, Vassar B., 1 PM.	Cocoa
Brown, Paul M., 3 B Ad.	St. Petersburg	Carnes, Carl C., G.	Florahome
Brown, William F., 3 L.	Miami	Carr, Archie F., 4 BS.	Umatilla
Browning, Louis P., 3 EE.	Gainesville	Carr, Kenneth R., 3 EE.	Sulphur Springs
Brownett, Francis H., 4 A.	Jacksonville	Carrigan, Richard A., 4 BS.	Miami
Brownlee, John M., 1 PM-1 Ag.	Starke	Carroll, John N., 1 B Ad.	Palm Beach
Brumley, George W., 2 BS.	Gainesville	Carroll, John R., 3 A.	Miami
Brunk, Lloyd S., 4 Ag.	Sebring	Carroll, Walter D., 1 B Ad.	Winter Haven
Bryan, Joseph E., 1 B Ad & E.	Jacksonville	Carroll, William H., 1 B Ad.	Palm Beach
Bryan, Pauline, 3 J.	Gainesville	Carter, Burnett D., 2 AB.	Tallahassee
Bryan, William E., 1 BAE.	Jacksonville	Carter, Ira J., 3 BSE.	Newberry
Bryson, John A., 1 L.	Jacksonville	Carter, James A., 2 PM.	Miami
Bryson, John M., 2 AB.	Clermont	Carter, Jerry Wm., 4 BAE.	Tallahassee
Buchanan, Jarrell E., 3 J.	Penney Farms	Carter, Lemuel C., 1 PL.	Bunnell
Buchanan, William C., 1 Ag.	Wauchula	Carter, Morgan H., G.	Gainesville
Buchholz, Albert W., 3 BAE.	Tampa	Carter, Ray A., 2 L.	So. Jacksonville
Buck, James H., 1 J.	Coconut Grove	Carter, Zina R., 2 B Ad.	St. Petersburg
Buck, Shaw Sollie, 2 HPI.	Palatka	Caruso, Joseph B., 2 AB.	Tampa
Buckley, John A., 4 BAE.	St. Petersburg	Carver, William G., 1 B Ad & L.	Lakeland
Buckley, Thomas H., 4 J.	Pensacola	Cary, M. W., 2 Ag.	Tampa
Bucky, F. W., 4 A.	Jacksonville	Cassel, Alvin, 2 B Ad & L.	Miami
Bull, Harcourt, 1 B Ad.	Atlantic Beach	Causey, James E., 2 Ag.	Wauchula
Bunch, Franklin S., 2 A.	Jacksonville	Cawthon, Dudley M., 1 HPI.	DeFuniak Springs
Burce, Douglas C., 1 LD.	Miami	Chace, William H., 1 B Ad & L.	So. Jacksonville
Burghard, Fred H., 1 PM.	Quincy	Chadwick, James A., 2 B Ad.	Gainesville
Burgis, Donald S., 1 J.	Bradenton	Chamberlain, Rudolph M., 2 B Ad & E.	Micanopy
Burgis, Wallace M., 1 J.	Bradenton	Chambliss, Henry H., 1 B Ad.	Jacksonville
Burkett, James W., 1 BS.	McClenny	Chambliss, Robert F., 4 CE.	Tampa
Burnett, Barney J., 2 BSE.	Jacksonville	Chapman, J. B., 2 B Ad.	So. Jacksonville
Burnett, James L., 3 A.	Tallahassee	Chapman, Leonard F., 1 AB.	DeLand
Burnett, Joseph D., 1 AB.	Tallahassee	Chapman, William G., 2 B Ad.	Newberry
Burnham, Ken B., 1 B Ad.	Gainesville	Charles, William L., 2 BSE.	Jacksonville
Bush, Jean E., 1 E.	Daytona Beach	Charles, William W., 1 L.	Jacksonville
Butler, John D., 3 B Ad.	Miami	Chatham, George T., 1 E.	Bartow
Butler, Laurence E., 1 HPI.	Newberry		
Butler, Valery D., 3 BAE.	Chipley		
Butler, Victor W., 1 BS.	Penney Farms		

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Cheney, Neil S., 4 BAE.....	Gainesville	Conney, Gerald G., 1 Pg.....	Winter Haven
Cheney, Waldo B., 2 AB.....	Gainesville	Cooper, Simon, 1 B Ad.....	Tampa
Cherry, Henry S., 3 BS.....	Center Hill	Cooperman, Leonard W., 3 L	St. Petersburg
Chester, William V., 2 Ag.....	Palatka	Copeland, A. W., 4 CE.....	Tampa
Chiaramonte, Alfonso, 2 J.....	Tampa	Cordell, John R., 4 A.....	Arlington
Childers, Frank E., 1 E.....	Port St. Joe	Cornelius, Ivan, 1 PL.....	Tampa
Childers, Ronald W., 3 EE.....	Port St. Joe	Cornelius, Oswald, 1 PL.....	Tampa
Chilson, Francis A., 2 BS.....	Bradenton	Cornwall, Carroll, 2 BS.....	Lakeland
Chipley, Edmund L., 4 Ch E.....	Pineland	Corr, Alys May, G.....	Gainesville
Church, Daniel D., 5 BAE.....	Gainesville	Corrales, Joe G., 2 PM.....	Tampa
Ciaravella, James M., 4 BS.....	Tampa	Cosgrove, Alfred E., 2 B Ad.....	Tampa
Clark, Charles H., 3 BAE.....	Bradenton	Couey, Henry C., 1 BAE.....	Trilby
Clark, Edgar E., 1 Ag.....	Quincy	Coulter, George S., 1 L.....	Jacksonville
Clark, Elmer B., 2 PM.....	New York City	Covell, Philip E., 2 B Ad.....	Kalamazoo, Mich.
Clark, Hurlbut G., 5 EE.....	Gainesville	Covey, John Wm., 2 Ag.....	Daytona Beach
Clark, Paulina A., 3 J.....	Gainesville	Covington, Henry L., 1 B Ad & L.....	Jacksonville
Clark, Vernon W., 4 BAE.....	Bradenton	Cox, Charles N., 1 HPL.....	W. Palm Beach
Clark, Washington A., G.....	Gainesville	Cox, Charles Wm., 2 B Ad.....	Winter Haven
Clarke, Ed M., 1 L.....	Gainesville	Cox, James C., 4 Ag.....	Lake Alfred
Clarke, G. Winston.....	Miami Beach	Cox, Shuler P., 3 B Ad & L.....	Jacksonville
Clarke, Roy H., 2 B Ad.....	Clearwater	Coy, Fred E., 5 Ag.....	Jasper, Michigan
Clarke, William C., 5 CE.....	Plant City	Cozzens, Lafayette M., 5 Ag.....	Wilmette, Ill.
Clayton, Prentiss H., 1 A.....	Orlando	Crabtree, Raymond O., 2 Ag.....	Jacksonville
Claywell, William H., 3 BAE.....	Tampa	Craft, Donald G., 3 L.....	Live Oak
Cleare, Allan B., 3 L.....	Key West	Craig, Joe A., 3 CE.....	Miami
Clements, Ralph W., 1 J.....	Ft. Meade	Craver, David C., 1 E.....	Tampa
Clemons, Walter N., 4 HPL.....	Tallahassee	Crawford, John A., 1 E.....	Plant City
Clerke, John W., 2 P.....	Green Cove Springs	Crawford, Robert B., 2 PM.....	Fort Meade
Cleveland, Charles B., 3 L.....	Miami	Crawford, William G., 1 PL-1 A.....	Babson Park
Coates, John B., 1 E.....	Winter Park	Creighton, John T., 5 BSE.....	Augusta, Ga.
Coats, James G., 3 B Ad.....	Ft. Pierce	Crews, Edwin H., 2 HPL.....	Gainesville
Cobb, Arthur C., 1 B Ad.....	Ocala	Crews, Elton W., 4 B Ad.....	Zolfo Springs
Cobbe, Charles T., 2 HPL.....	El Paso, Tex.	Crews, James T., 1 HPL.....	Gainesville
Cochran, George L., 1 E.....	Eustis	Crews, Lester T., 3 BS.....	Venus
Cochran, Robert S., 3 B Ad.....	Eustis	Crews, William H., 1 E-1 BS.....	Gainesville
Cochrane, John P., 1 B Ad.....	W. Palm Beach	Criswell, Ben N., 3 B Ad.....	Miami
Cockrell, Robert S., 2 L.....	Gainesville	Crofton, George R., 2 L-4 AB.....	Titusville
Cody, James A., 3 BS.....	Penney Farms	Croom, Hardy C., 2 Ch E.....	Jacksonville
Cody, Lawrence S., 2 CE.....	Bunnell	Crosby, Paul, 1 B Ad.....	Tampa
Coffin, John W., 1 E.....	Tampa	Crosby, Wm. M., 3 Ch E.....	Eustis
Cogburn, Mack B., 2 B Ad.....	Sanford	Crosswy, Vincent C., 2 P.....	Lakeland
Cogswell, Robert C., 3 BAE.....	Tallahassee	Crow, Allen R., 3 BS.....	Ft. Pierce
Cohen, Edward J., 4 B Ad.....	Jacksonville	Crow, Lon Worth, 2 AB.....	Miami
Cohen, Isaac I., 2 J.....	Tampa	Crowell, John M., 1 A.....	Wauchula
Cohen, John J., 4 A.....	Palm Beach	Crowell, Robert W., 1 BS.....	Miami
Cohoe, Robert W., 1 B Ad & L.....	Gainesville	Crownover, Robert L., 4 Ch E.....	Coral Gables
Coldwell, Walter A., 3 LD.....	Daytona Beach	Crowson, Athel., 5 BSE.....	Milton
Cole, Allen T., G.....	Minnesota Lake	Culbreth, Grev B., 5 BAE.....	Shamrock
Cole, Robert B., 4 AB.....	Jacksonville	Culbreth, William E., 3 J.....	Tampa
Cole, William B., 2 ME.....	Jacksonville	Cullen, Ralph O., 1 L.....	Ocala
Coleman, Harold F., 3 EE.....	Cocoa	Cullen, Spencer L., 2 BS.....	Ocala
Coleman, John M., G.....	Empora, Miss.	Culler, John L., 2 B Ad.....	Miami
Coley, Herbert S., 2 PL.....	Pensacola	Culver, Julian F., 1 BSMA.....	Jacksonville
Collier, O. B., 4 B Ad.....	Tampa	Cumbee, Carroll F., 5 BAE.....	Wellborn
Collins, Cecil F., 4 B Ad.....	Lake City	Cumming, John W., 4 AB.....	Gainesville
Collins, Eldridge R., 1 PL.....	Fort White	Cummings, Otto F., 2 Ch E.....	Archer
Collins, Thomas E., 4 Ag.....	Bartow	Currie, F. A., 3 L.....	W. Palm Beach
Collins, Wilson R., 4 EE.....	Fort Meade	Curry, Leonard T., 2 PM.....	Key West
Colson, K. D., 4 AB.....	Jacksonville	Curtis, Donald C., 3 L.....	Lake Wales
Cominole, Bruce, 1 PM.....	Gloversville, N. Y.	Curtis, Reid A., 2 L.....	Tampa
Conant, Marcus, 2 B Ad.....	Jacksonville	Cutler, Ronald J., 4 BAE.....	DeLand
Coniglio, Frank L., 5 P.....	Tampa	Dabbagh, Mohammad F., 2 CE.....	Jerusalem, Palestine
Coniglio, Joseph S., 5 P.....	Tampa	Daffin, Frank C., 1 B Ad-1 BAE.....	Marianna
Conkling, Donald H., 3 J.....	W. Palm Beach	Dagley, Ray S., 5 BS.....	Gainesville
Conlon, Robert B., 1 E.....	Hollywood	Dale, Harry B., 2 Ch E.....	Kissimmee
Conner, Robert E., 1 BS, Bay St. Louis, Miss.		Dale, Neal W., 1 AB.....	St. Augustine
Connor, Albert B., 3 BSE.....	Auburndale	Daniel, William R., 4 BAE.....	Sarasota
Conrad, Paul L., 3 Ch E.....	Mt. Dora	Dankwertz, Louis F., 4 BSE.....	Philadelphia, Pa.
Conroy, Francis P., 1 L.....	Miami	Dasher, Julian L., 1 B Ad.....	Orlando
Constans, Henry P., G.....	Gainesville	Daugherty, Ralph E., 4 B Ad.....	Lakeland
Constantine, H. P., 3 BS.....	Clearwater		
Conway, Leo J., 5 B Ad & L.....	Gainesville		
Cook, Erben, 2 BSE.....	Miami		
Cook, E. M., 3 Ag.....	Monticello		

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Daugherty, Thomas F., 1 BAE.	Jacksonville	Donnell, Ballard R., 2 PL.	W. Palm Beach
Daumer, Raymond A., 2 EE.	W. Palm Beach	Donnelly, Wallace O., G.	Gainesville
David, James B., G.	Jacksonville	Dooly, Jesse W., 1 BS.	Mt. Dora
Davidson, Jerome, 2 PM.	Passaic, N. J.	Dorsett, Luke M., 3 BAE.	Jacksonville
Davis, Albert G., 2 L.	Jacksonville	Douglas, Barton T., 3 L.	Gainesville
Davis, Charles S., 3 B Ad.	Lake Helen	Douglass, Clark P., 4 Ag.	Jacksonville
Davis, Darryl A., 1 L.	Miami	Douthit, Frank, 2 Ag.	Peters
Davis, D. M., 4 Ag.	Frostproof	Downs, William H., 1 L.	Perrine
Davis, Harold E., 1 PM.	Lake Worth	Dozier, Arthur G., 3 BS.	Sarasota
Davis, Irving Louis, 1 B Ad.	Jacksonville	Dreblow, Charles J., 4 B Ad.	Monticello
Davis, John N., 4 B Ad.	Chicago, Ill.	Dresbach, Richard E., 1 L.	Ft. Lauderdale
Davis, Joseph I., 3 L.	Miami	Drew, John W., 1 PM.	Philadelphia, Pa.
Davis, Malcolm M., 3 B Ad.	Ocala	Driggers, Clyde L., G.	Leesburg
Davis, Oliver P., 4 B Ad.	Conway, S. C.	Driscoll, Robert A., 3 BAE.	W. Palm Beach
Davis, Richard H., 2 AB.	Madison	Drummond, Gordon L., 1 E.	Bronson
Davis, Sam F., 2 B Ad.	Tampa	DuBois, Edward L., 2 BS.	Miami Beach
Davis, Tom R., 1 HPI.	Tampa	DuBois, Joseph D., 5 EE.	Plant City
Davis, U. P., G.	Gainesville	Duchesney, Clement, 1 J.	Jacksonville
Davis, Walter T., 2 PM.	Arcadia	Duckwall, William D., 3 L.	4 AB. Bradenton
Davis, William A., 4 B Ad.	Frostproof	Duff, Lyle E., 1 B Ad.	Mims
Day, Pete C., 1 HPI.	Bradenton	Duffy, Owen E., 2 PM.	Miami
Dayson, Arthur R., 2 CE.	Gainesville	Duguid, Russell L., 2 CE.	Jacksonville
Dayton, Orvil L., 2 L.	Dade City	Dukes, Hugh, 2 Ag.	Dukes
Deam, John W., 3 Ch E.	Trenton, N. J.	Dull, Basil F., 2 A.	S. Clermont
Dean, Bernard A., 3 B Ad.	Jacksonville	Duncan, Eugene B., 4 A.	Summerfield
DeBerry, Lewis C., 1 PL.	W. Palm Beach	Duncan, F. Banks, 5 EE.	Gainesville
Dechman, Stephen, 1 A.	W. Palm Beach	Duncan, Harry C., 2 AB.	Tavares
DeCottes, George A., 1 J.	Jacksonville	Duncan, Joseph V., 1 A.	Summerfield
Deeb, Nasseef A., 1 BAE.	Tallahassee	Duncan, Thomas E., 3 L.	Lake Butler
Deeb, Syde P., 1 PL.	Tallahassee	Duncan, William M., 3 J.	Starke
DeGrove, Russell H., 3 CE.	Palm Valley	Dunham, Donald, 2 AB.	St. Augustine
Degtoff, Walter A., 5 BSE-G.	Miami	Dunham, Kenneth, 1 AB.	St. Augustine
Dekle, James O., 2 BS.	Gainesville	Dunlap, Sam Benson, 1 PL.	Jacksonville
Dekle, Thomas P., 1 E.	Gainesville	Dunn, H. Clinton, 2 PL.	Daytona Beach
De La Rua, Max., 1 PM.	Pensacola	Dunn, Hardie M., 2 BSE.	Jacksonville
Delegal, Thomas A., 2 BAE.	Live Oak	Dunn, William T., 4 Ag.	Gainesville
Dell, Sam T., 2 B Ad & L.	Gainesville	Dunwody, H. Atwood, 2 L.	Arcadia
DeLoach, J. Bennett, 4 J.	Lakeland	Dunwody, William E., 2 L.	Arcadia
Delp, Harold A., 3 BSE.	Tampa	Durrance, Augusta W., G.	Kissimmee
DeMasters, Clarence U., G.	Biggs, Calif.	Durrance, Charles L., 2 BAE.	Orlando
DeMilly, John W., 1 B Ad.	Tallahassee	Durrance, Clark G., 1 LD.	Arran
Deming, Frank S., 1 PM.	Zephyrhills	Durrance, Virgil H., 1 BSAE.	Orlando
Demmi, Joe L., 1 PM.	Tampa	Dustin, Herbert W., 1 B Ad.	Fairbanks
Denham, William D., 2 PL.	Bartow	Dustin, Willis A., 3 BS.	Fairbanks
Dennard, William E., 2 PM.	Miami	Dyal, Donald F., 1 BSE.	Cross City
Denton, Clifford W., 1 BSE.	Jacksonville	Dye, Paul E., 2 BS.	Ft. Lauderdale
DeVane, Charles A., 1 B Ad & L.	Plant City	Dyer, Harry F., 1 L.	Stuart
DeWitt, Charles J., 3 EE.	Tampa	Dykes, George M., 3 B Ad.	Miami
DeWoody, Charles O., 1 B Ad & L.	New Port Richey	Earle, Huber D., 4 B Ad.	Ocala
Dial, William H., 3 L.	Gainesville	Eastland, Mark W., 4 B Ad.	Tampa
Dick, Herbert O., 2 EE.	Brooksville	Eastwood, Harry P., 2 B Ad.	Orlando
Dick, Robert C., 3 B Ad.	Brooksville	Edeward, A. A., 3 CE.	Ft. Lauderdale
Dickenson, Wm. B., 1 AB.	Edgewood	Edmonds, Herbert M., 2 EE.	St. Petersburg
Dickey, Ralph D., 5 BAE.	Auburdale	Edwards, Clifford A., 3 B Ad.	Tampa
Dickinson, Clarence L., G-4 BSAE.	Hawthorn	Edwards, Carlos L., 3 L.	Miami
Dickinson, Wm. E., 1 PL.	Inverness	Edwards, Harry H., 1 E.	Gainesville
Dicks, David L., 1 B Ad.	Jacksonville	Edwards, Herman L., 2 PL.	River Junction
Dicks, Harry H., 1 PM.	Lakeland	Edwards, James E., 3 BS.	Miami
Dicks, Roy, 5 BAE.	Lulu	Edwards, John L., 1 Ag.	Ocala
Dickson, Ray C., 5 BAE.	Jacksonville	Edwards, William, 4 B Ad.	Ocala
Dickson, Robert W., 1 B Ad & E.	Mt. Dora	Eells, Byron W., 1 E.	Port St. Joe
Dillingham, Wm. P., 2 BAE.	Delray Beach	Eggart, Charles W., 2 PL.	Pensacola
Dimmick, Walsworth K., 2 Pg-2 BS.	Jacksonville	Einhorn, Raymond, 1 B Ad.	Key West
Dishong, William W., 2 L.	Arcadia	Elder, Oscar Y., 2 J.	So. Jacksonville
Dixon, Douglas E., 2 BS.	Jacksonville	Elliot, James N., 3 L.	DeFuniak
Dixon, Glen A., 3 Ag.	Hollywood	Ellis, Benjamin G., 3 EE.	Delray Beach
Dock, Israel M., 1 J.	Miami	Ellis, Candler W., 1 BS.	DeLand
Dodd, Ralph W., 1 HPI.	Punta Gorda	Elzey, Lee Warren, 1 Ag.	Monticello
Dodson, Charles L., G.	Gainesville	Elowitch, Julius L., 1 B Ad.	Jacksonville
Dolive, Clarke, 5 Ag.	Orlando	Elsberry, Harold E., 1 PM.	Wimauma
D'Olive, R. Rex, 2 BS.	Blountstown	Elsberry, Paul S., 1 BS.	Wimauma
		Elton, Robert W., 2 EE.	Jacksonville
		Emanuel, Laurence M., 4 Ch E.	Jacksonville
		Embry, Estill A., 1 Ag.	Quincy

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Embry, Hugh C., 3 AB.....	Quincy	Fischer, Richard K., 1 E.....	Cleveland, O.
Emerson, Roy W., 2 PM.....	Morgantown	Fisher, Edward T., 1 L.....	St. Petersburg
Emmelhainz, Edgar A., 4 B Ad..	Bradenton	Fisher, John L., 4 B Ad.....	Tampa
England, Robert L., 2 J.....	W. Palm Beach	Fisher, Justin R., 4 BS.....	Jacksonville
English, Oscar J., 1 HPI.....	Atlanta, Ga.	Fitch, Thomas L., 2 B Ad.....	Ocala
Engram, John M., 1 B Ad & E.	Panama City	Fitz, Herman F., 1 E.....	Jacksonville
Ennis, Bruce A., 1 HPI.....	Homestead	Fitzpatrick, John G., 2 PM...	St. Petersburg
Entz, Marvin C., 2 B Ad.....	Leesburg	Flanagan, John B., 4 BS.....	Lakeland
Entz, Noel W., 1 L.....	Leesburg	Fleeman, Dave B., 2 PM.....	Miami Beach
Erickson, Floyd A., 3 BSAE....	Canal Point	Fleming, James M., 2 PM.....	Pensacola
Ernsberger, G. Richard, 2 PM...	Palatka	Fleming, Samuel T., G.....	Gainesville
Ervin, Thomas M., 1 E.....	Tallahassee	Fleming, Sidney S., 2 PM.....	Tampa
Eshleman, Silas K., 3 L.....	Gainesville	Fletcher, Thomas C., 4 P.....	Williston
Espinosa, Fernando J., 2 PL.....	Tampa	Flipse, Fred C., 2 B Ad.....	Coconut Grove
Essrig, Irving M., 1 PM.....	Tampa	Flowers, George A., 1 BS.....	Montbrook
Estridge, Luther L., 4 BAE.....	Mulberry	Floyd, Clara B., 2 L.....	Hawthorn
Etheridge, Fitch O., 5 PM.....	Tavares	Floyd, Walter H., 1 HPI.....	Jacksonville
Etter, Henry E., 1 BS-IE.....	Jacksonville	Fokes, William R., 2 L.....	Lake City
Evans, Art P., 3 Ag.....	Vero Beach	Forsae, William T., G.....	Owenton, Ky.
Evans, John D., 3 BS.....	Jacksonville	Forsyth, Donald W., 4 J.....	Pensacola
Evans, Robert F., 1 J.....	Tallahassee	Fort, Chester A., 3 BS.....	Ocala
Everett, Peter M., 1 AB.....	Orlando	Fortner, James E., 1 Pg.....	Haines City
Ezzard, C. Woodfin, 1 B Ad.....	Orlando	Fosdick, William M., 2 B Ad...	Lakeland
Fagan, Henry L., 2 Ag.....	Ocala	Foster, Hamilton, 3 AB.....	Miami
Faglie, Ralph M., 3 Ag.....	Monticello	Foster, James W., 3 J.....	Pensacola
Fain, E. J., 2 B Ad.....	West Palm Beach	Foster, Leo L., 2 BAE.....	Monticello
Fain, Leo B., 3 BSE.....	West Palm Beach	Fountain, John H., 2 HPI.....	Miami Beach
Fairbanks, Thomas A., 1 AB.....	Ocala	Fouraker, William Lee, 3 B Ad.	Jacksonville
Fairbanks, William E., 2 B Ad & L.....	Jacksonville	Fowler, Harold D., 1 PM.....	Miami
Fairehild, George W., 1 AB.....	Lake Worth	Fox, Morton M., 1 PM.....	Jacksonville
Falsone, Nick J., 1 L.....	Tampa	Foy, Courtenay B., 2 B Ad.....	Toombs, Ga.
Fant, Joe J., 2 Ch E-2 BS.....	St. Augustine	Franklin, Benjamin O., 1 B Ad..	Micanopy
Fanus, Herbert W., 4 ME.....	Daytona Beach	Frazier, J. Stanley, 4 AB.....	Pensacola
Farabee, Thos. N., 4 BAE.....	Wauchula	Frazier, Frank J., 4 BS.....	W. Palm Beach
Farish, Thomas B., 1 Pg.....	Pensacola	Frecker, William H., 3 L.....	Tampa
Farnsworth, F. W., 3 Ch E.....	Tampa	Freeland, Edwin B., 1 P.....	Miami
Farnsworth, Frank, 1 E.....	Orlando	Freeman, George D., 4 Ch E....	St. Augustine
Farrier, J. Brown, 4 BS.....	Tampa	Freeman, H. Dwight, G.....	Tampa
Farun, Fred A., 3 Ag.....	Jerusalem, Palestine	Freeman, Judson, 1 B Ad & L.	Jacksonville
Fatt, Irwin M., 1 PM.....	Brooklyn, N. Y.	Freidlin, Rose E., 2 L.....	Jacksonville
Feagle, Phillip S., 1 Ag.....	Lake City	Frick, Robert W., 4 Ag.....	Tampa
Feaster, Thomas A., 2 B Ad.....	Miami	Friedman, Robert H., 2 HPI...	Jacksonville
Fee, Frank H., 2 B Ad & L.....	Ft. Pierce	Friedman, Sidney B., 2 BS.....	Mulberry
Fehmerling, Gottlieb B., 1 Ag.	Winter Haven	Friesner, John W., 3 Ag.....	Lake Alfred
Feiber, James G., 1 PM.....	Jacksonville	Fripp, Ethel Ione, 5 LD.....	Bluffton, S. C.
Feigenbaum, Ernest, 1 B Ad.....	Miami	Frison, Carroll G., G.....	Titusville
Feigin, Harry M., 1 E.....	Eustis	Frohock, Fred C., 2 CE.....	Shady Grove
Feinberg, Irving, 1 E.....	Quincy	Frye, David B., 4 B Ad.....	Tampa
Feinberg, Mark, 2 PL.....	Miami	Frye, Leslie S., 2 Ag.....	Mulberry
Feit, Saul K., 4 BSE.....	Gainesville	Fugate, Delmar O., 1 P.....	Boca Grande
Feldman, Leonard, 1 B Ad.....	Ft. Lauderdale	Fulghum, Ralph M., G.....	Mitchell, Ga.
Feliciano, Vincent, 1 PM.....	Hawthorn	Fuller, Melvin O., 1 BSMA....	Clearwater
Feller, Harry, 2 B Ad.....	Miami	Fulmer, Milton H., 1 P.....	Cedartown, Ga.
Fellows, Hugh P., 1 J.....	Cottondale	Fuqua, Don, 1 J.....	Palmetto
Felton, Ivan E., 2 Ch E.....	Rock Harbor	Fuqua, Joe B., 1 PM.....	Palmetto
Felts, Marcus R., 1 B Ad.....	Jacksonville	Furr, Sam A., 1 BS.....	Jacksonville
Fenn, Wm. B., 2 B Ad.....	Miami	Futeh, Mabry D., 1 Ag.....	Gainesville
Ferentino, Andrew J., 4 A.....	Miami	Futeh, Merrill C., 1 Ag.....	Starke
Ferguson, Wm. M., 4 B Ad.....	Orlando	Futeh, Nat, 1 B Ad.....	Tampa
Fernandez, Joe O., 1 Ag.....	Tampa	Gable, James M., 1 AB.....	Green Cove Springs
Ferrazzi, Wm. J., 2 HPI.....	Norfolk, Mass.	Gaffey, William M., 1 E.....	Jacksonville
Ferris, Hazen, K., 1 J.....	Lakeland	Gago, Frank J., 1 E.....	Havana, Cuba
Field, John W., 3 Ag.....	Miami	Gaillard, Henry F., 2 AB.....	Jacksonville
Field, Russell W., 1 AB.....	Cocoa	Gaines, Frank B., 2 EE.....	Sarasota
Fifield, Harry A., 3 AB.....	Jacksonville	Gaither, Billy C., 1 B Ad & L.	Tampa
Fifield, Willard M., G.....	Jacksonville	Gall, Owen E., 2 Ag.....	Zephyrhills
Finch, William F., 1 E.....	W. Palm Beach	Gantt, James J., 1 BS.....	St. Augustine
Findley, George B., 1 AB.....	Gainesville	Ganyard, James J., 2 B Ad & L.	Miami
Finkeyson, Lloyd E., 1 B Ad.....	Miami	Garcia, Manuel M., 1 B Ad.....	Tampa
Finner, Winn F., 2 Ag.....	Tallahassee	Gardner, Richard J., 3 AB.....	Quincy
Finney, Glenn D., 4 Ag.....	Elizabeth, Pa.	Gary, Thomas P., 2 L.....	Brooksville
Fiol, Mario S., 5 Ag.....	Santiago, Cuba	Gaskins, Jerrold T., 1 B Ad...	Arcadia
Fiorito, Santo G., 2 B Ad.....	Tampa	Gato, Thomas H., 2 B Ad.....	Havana, Cuba

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Gaylord, Herbert R., 4 EE.....	Tampa	Green, Alexander R., 1 PM.....	Winter Park
Gehan, Frederick E., 4 BAE.....	Tallahassee	Green, Edwin A., 2 B Ad.....	Mims
Gelatt, James S., 1 B Ad.....	Miami Beach	Green, John M., 1 AB.....	Port Orange
George, Allison E., 1 L.....	Argyle	Green, Rosburn S., 1 P.....	Mayo
Gerald, F. L., 1 L.....	Ft. Myers	Green, Sam, 1 L.....	St. Petersburg
Gibbons, Arthur, 3 L.....	Tampa	Greenberg, Max E., 1 L.....	Gainesville
Gibbs, Irving B., 1 B Ad.....	Live Oak	Greene, Charles F., 2 PL.....	Gainesville
Gibson, Herbert T., 3 AB-1 L.....	W. Palm Beach	Greene, George E., 1 HPI.....	Jacksonville
Gifford, Charles E., 1 B Ad.....	St. Petersburg	Greene, Harry F., 2 CE.....	Plant City
Giglia, Henry C., 1 BS.....	Tampa	Greenman, John R., 4 Ag.....	Gainesville
Gilbert, Fred S., 1 PM.....	Jacksonville	Greer, J. D., 2 LD.....	Miami
Gilchrist, James M., 1 BS.....	Tarpon Springs	Gregory, Clyde W., 1 B Ad & L.....	Havana
Gill, Fred Wm., 2 B Ad.....	Zephyrhills	Gregory, Herbert C., 2 PL.....	Quincy
Gill, Robert D., 4 Ag.....	Zephyrhills	Gregory, Leo, 2 BS.....	Gainesville
Gillen, William A., 1 PL.....	Tampa	Gretchen, Clifford J., 2 B Ad.....	Hialeah
Gillette, Gardner, T., 3 B Ad.....	Jacksonville	Griffin, Ben H., 2 Ag.....	Frostproof
Gillis, D. Bryan, 2 EE.....	Ponce De Leon	Griffin, Elmer Z., 1 PL.....	Winter Haven
Gillies, Dwight B., 1 B Ad.....	Maitland	Griffin, Robert C., 2 J.....	Detroit
Gilmore, K. P., 1 HPI.....	Cottondale	Griffing, Webster D., 2 Ag.....	Gainesville
Gilmour, Aleck L., 2 CE.....	Jacksonville	Griggs, H. E., 3 L.....	Rockledge
Ginsberg, Byron, 3 BS.....	Newark, N. J.	Griggs, Orris B., 5 HPI.....	Rockledge
Gittings, Ben L., 1 B Ad & L.....	Brooksville	Griley, Victor P., 1 L.....	Miami
Giudice, Vincent Wm., 2 PM.....	Tampa	Grimm, Phyllis J., G.....	Gainesville
Glaney, Philip B., 3 HPI.....	W. Palm Beach	Grinsted, Alan D., G.....	Orange, N. J.
Glass, Harvey K., 1 E.....	Eustis	Guard, Carl J., G.....	Orlando
Glazier, Richard S., 1 B Ad.....	Tampa	Guenther, Wm., 3 Ag.....	Altouna
Glickstein, Felix, 1 PM.....	St. Augustine	Guito, Francisco H., 1 BAE.....	Key West
Goble, Arthur J., 2 L.....	Tampa	Gulick, H. Marion, 4 Ch E.....	Tampa
Goble, Cornelius T., 2 B Ad.....	Tampa	Guluzian, John H., 3 B Ad.....	Crestview
Godfrey, Fred E., 3 B Ad.....	Orlando	Guthrie, John B., 1 Ag.....	Winter Haven
Goetter, Herman W., 2 Ch E.....	Cantonment	Guy, Alfred H., 2 Ag.....	Hawthorn
Goggans, Frederick L., 1 BSE.....	Orlando	Gwynn, James C., 1 B Ad & L.....	Gainesville
Goldberg, Herman, 1 L.....	Monticello	Haase, Gerhard H., 2 PM.....	Miami
Goldner, Arthur, 1 PM.....	Okeechobee	Hackett, Caraway S., 1 E.....	Jacksonville
Goldsmith, Jerome H., 1 B Ad & L.....	Miami	Hackney, Walter M., 2 B Ad.....	Lake City
Goldstein, Arthur, 2 P.....	Gainesville	Haddock, Eugene F., 1 PM.....	Lakeland
Goldstein, Maurice W., 2 B Ad & L.....	Jacksonville	Haeseker, Harvey L., 3 CE.....	St. Petersburg
Gomez, John R., 1 BAE.....	Pensacola	Hagg, Gustave H., 1 E.....	Lantana
Gonzalez, Frank S., 1 E.....	Pensacola	Hagin, Phil, 2 AB.....	Tampa
Gonzalez, George, 2 L.....	Tampa	Haines, William A., 1 E.....	Oneco
Gonzalez, Mario G., 2 PM.....	Tampa	Haire, Charles R., 2 BAE.....	Winter Park
Gooding, James Wm., 2 Ag.....	W. Palm Beach	Halbrook, Leo W., 1 LD.....	Santa Fe
Gooding, Marion W., 1 L.....	Jacksonville	Hale, Arthur B., 1 E.....	Tampa
Goodmark, Harry F., 2 PL.....	W. Palm Beach	Hale, Harry S., 2 BSE.....	Sarasota
Goodwill, Allan B., 2 EE.....	Jacksonville	Hall, Joe T., 4 Ch E.....	Hollywood
Goodwin, Roger B., 1 J.....	Orlando	Hall, John O., 1 AB.....	Miami
Goodwin, William B., 3 B Ad.....	Franklin, Mass.	Hall, Josiah C., G.....	Dunedin
Goodyear, Ernest D., 2 HPI.....	Ft. Myers	Hall, Lucien D., 4 B Ad.....	St. Petersburg
Gordon, Sydney H., 3 BS.....	Ft. Lauderdale	Hall, Nathan, 1 B Ad.....	Tampa
Gordon, Ulysses S., G.....	Gainesville	Hall, Thomas G., 2 L.....	Fernandina
Gordy, Billy N., 1 J.....	Collier City	Haller, Rudolph V., 1 E.....	W. Palm Beach
Gorley, Clement, 4 BS.....	Passaic, N. J.	Hallmark, George S., 1 E.....	Pensacola
Gorman, Charles A., 2 HPI.....	Fairfield, Conn.	Hallstrom, Gottfrid B., 2 EE.....	Ft. Pierce
Gough, Horace, 2 BS.....	Ona	Halpern, Herbert R., 3 B Ad.....	Jacksonville
Gourley, Roy C., 2 AB.....	St. Petersburg	Halsey, William E., 4 B Ad.....	W. Palm Beach
Gower, Oscar S., 2 B Ad.....	St. Petersburg	Hamilton, Fred P., 1 B Ad & L.....	Charleston, S. C.
Grady, George R., 5 HPI.....	High Springs	Hamilton, George B., 4 B Ad.....	Tampa
Graff, Robert A., 3 BS.....	Coral Gables	Hamilton, Wilbur J., 1 Ag.....	Newberry
Graham, Bert W., 1 B Ad.....	Bradenton	Hamilton, Horace H., 1 A.....	Clearwater
Graham, Harry T., 2 ME.....	Tallahassee	Hamm, Harold A., 4 B Ad.....	Gainesville
Graham, James D., 2 Ag.....	Gainesville	Hammer, John M., 2 B Ad.....	Bradenton
Graham, Jane, 3 AB.....	Gainesville	Hammer, William J., 1 HPI.....	Bradenton
Graham, Phil L., 1 B Ad & E-1 BS.....	Pensacola	Hammond, Richard D., 1 Ag.....	Gainesville
Gramling, Owen I., 1 B Ad.....	Tallahassee	Hamon, Kenneth W., 1 B Ad.....	Miami
Graves, Charles P., 3 J.....	Gainesville	Hampton, Burt L., 2 BS.....	Winter Haven
Graves, Gaylord D., 1 A.....	Daytona Beach	Hampton, Howell M., 1 AB.....	Ocala
Gray, Carl R., 1 BAE.....	Millville	Hancock, Frank M., 1 HPI.....	Jasper
Gray, Edwin D., 1 PM.....	Quincy	Hancock, Homer, 1 A.....	Miami
Grazier, John H., 1 AB.....	St. Petersburg	Hand, Samuel E., 3 BSE.....	Gainesville
Greear, Marion C., 2 Ch E.....	Orlando	Hannah, Tom K., 1 B Ad.....	Eustis
		Hanson, James E., 4 BS.....	Daytona Beach
		Harby, Vernon E., 1 B Ad.....	Jacksonville
		Hardee, James O., 2 A.....	Ocala

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Hardie, G. Conrad, 1 B Ad.	Ft. Pierce	Herminghaus, Chas., 4 Ag.	Mims
Hardison, John M., 1 BS.	Gainesville	Herr, Fred N., 1 E.	Delaware, Ohio
Hardy, Robert C., 1 E-1 BS.	Tampa	Herrick, Raymond E., 3 EE.	Tampa
Harlee, Peter S., 1 BS.	Palmetto	Hess, Charles R., 3 L.	Jacksonville
Harlow, Ervin E., 1 BS.	Bradenton	Hester, Robert L., 4 B Ad.	Miami
Harmon, Arthur K., 1 E.	Orlando	Hewitt, Charles C., 4 B Ad.	Muskegon, Mich.
Harmon, James D., 1 B Ad.	Bartow	Heyman, Louis H., 1 Ag.	Daytona Beach
Harms, Hubert H., 1 E.	Orlando	Hiatt, Lyle S., 4 B Ad.	Jacksonville
Harper, Henry R., 2 CE.	Tampa	Hicks, Caird C., 1 P.	Orlando
Harper, Wallace L., 2 BAE.	Gainesville	Hicks, Charles H., 1 B Ad.	St. Petersburg
Harper, Walter S., 2 B Ad.	Meadville, Pa.	Hicks, William A., 1 E.	Tampa
Harris, Archie R., 1 PM.	Miami	Hieronymus, Allen C., 1 BS.	W. Palm Beach
Harris, Clyde E., 4 A.	Ortega	Hieronymus, Benjamin B., 1 B Ad.	W. Palm Beach
Harris, Clyde R., 1 PM.	Tallahassee	Hiers, William A., 2 EE.	Miami
Harris, David W., 3 J.	Miami	Higgins, Jimmy F., 2 BSAE.	Gainesville
Harris, Earl G., 3 BSE.	Caryville	Hightower, Edward R., 1 P.	Marianna
Harris, F. Arthur, 2 Ch E.	Sulphur Springs	Hill, J. Clarence, 5 BAE.	Branford
Harris, Samuel J., 1 E.	Miami Beach	Hill, J. D., 1 PM.	Lake City
Harris, William H., 1 A.	Tampa	Hill, Maoma F., G.	Dade City
Harris, Yancey A., 1 BS.	Gainesville	Hilliard, Alton L., 3 B Ad.	Ft. Pierce
Harrison, A. F., 3 BS.	Madison	Hilsman, Edward H., 2 BS.	Plant City
Harrison, Baya M., 2 PL.	Tampa	Hinckley, Elmer D., 5 BS.	Gainesville
Harrison, Murray M., 2 B Ad.	Parrish	Hinckley, Frank J., 1 BS.	W. Palm Beach
Harrison, William F., 3 BSE.	Panama City	Hiner, Lovell D., G.	Wagner, S. D.
Harry, Anthony F., 1 B Ad.	Pompano	Hinson, Ned, 2 B Ad.	Quincy
Hart, Allen E., 5 BAE.	Gainesville	Hirsh, Earl, 4 BAE.	Jacksonville
Hart, Screven T., 4 AB.	Jacksonville	Hirtle, Allen T., 3 BS.	Jacksonville
Hartman, Merton T., 3 ME.	Gainesville	Hoagland, Richard B., 2 AB.	Jacksonville
Hartnett, Richard J., 2 B Ad.	Plant City	Hobbs, Horton H., 1 PM.	Alachua
Hartsfield, Frank R., 1 B Ad.	Jacksonville	Hobbs, John D., 1 E.	Tampa
Harvey, Joseph L., 2 B Ad & E.	Chipley	Hocking, George M., G.	Portland, Oregon
Harvey, Sterling G., 1 E.	Bloomsburg, Pa.	Hoffman, George N., 2 ME.	Tampa
Hatch, Darwin S., 2 B Ad.	Lake Worth	Hoffmeyer, Ralph E., 2 PL.	Jacksonville
Hatcher, Lamar, 2 Ag.	Gainesville	Hogan, Ivey W., 3 Ag.	Trenton
Hatfield, Franklin P., 2 BS.	Umatilla	Holder, William R., 2 BS.	Tampa
Hatfield, James S., 1 PM.	Orlando	Holland, Frank W., 1 E.	Jacksonville
Hatfield, John R., 5 PM.	Orlando	Holland, Hilliard G., 2 AB.	St. Petersburg
Haug, George W., 4 EE.	Gainesville	Holland, Richard B., 3 B Ad.	St. Petersburg
Hawkins, George A., G.	Bay Harbor	Holland, Robert V., 1 PL.	Miami
Hawkins, John L., 1 E.	Bay Harbor	Holland, Walter C., 4 Ag.	Leesburg
Hawkins, Willie N., 1 E-1 BS.	Lakeland	Hollins, Maurice L., 2 B Ad.	St. Petersburg
Hayes, E. W., 1 BS.	Starke	Holloway, Marshall G., 3 BSE.	Haines City
Haynie, John D., 1 Ag.	Orlando	Holmes, Herbert P., 2 B Ad.	Yazoo, Miss.
Hazeldine, Kenneth, 4 A.	Terre Haute, Ind.	Holmes, Loyce L., 3 B Ad.	O'Brien
Head, Chas. W., 1 B Ad.	Plant City	Holtsberg, Herman M., 1 B Ad.	Key West
Hearn, Vernice L., G.	Miami	Holzer, Joseph S., 1 AB.	Marmaroneck, N. Y.
Heath, Esley O., 1 BAE.	Jacksonville	Hood, Ralph K., 3 BSE.	Crystal River
Heath, Frank H., 2 BAE.	Gainesville	Hooten, Ruffie D., 2 BAE.	Center Hill
Hebb, Harry Wallace, 2 B Ad & E.	Jacksonville	Hope, Roy E., 2 BAE.	Leesburg
Hebb, John, 2 LD.	Bartow	Horn, Albert W., 2 PM.	Pensacola
Heimbürger, Edward R., 1 L.	Ft. Lauderdale	Horner, Homer H., 1 B Ad.	St. Petersburg
Heitman, Gilmer M., 1 L.	Ft. Myers	Horovitz, Abe, 3 B Ad.	Jacksonville
Helliwell, Paul L., 2 AB.	Seffner	Horrell, James G., 3 BAE.	Gainesville
Helvenston, Alexander H., 2 ME.	W. Palm Beach	Hosford, Robert F., 1 Ag.	Hosford
Henderson, Homer C., 1 Ag.	Elfers	Hostetler, Gerald W., 3 EE.	Miami
Henderson, Jack B., 1 BS-1 B Ad.	Miami	Houk, Herman W., 2 B Ad.	Sanford
Henderson, John J., 2 L.	St. Augustine	Houle, Cyril O., 3 BAE.	Sarasota
Henderson, John W., 4 AB.	Tallahassee	Houston, Augustus W., 3 BS.	Palatka
Henderson, Joseph R., G.	Lee	Howard, Alvan R., 2 Ag.	Chiefland
Henderson, Major J., 4 BS.	Galliver	Howard, Raymond H., G.	Gainesville
Henderson, Roscoe B., 3 P.	Elfers	Howatt, E. Willard, 1 L.	St. Augustine
Hendrix, John W., 1 PM.	Quincy	Howe, Charles K., 1 B Ad.	Tampa
Hendrix, Tom, 1 E.	Lakeland	Howe, Fred J., 1 E.	Pensacola
Hendry, William L., 2 EE.	Tampa	Howell, Albert W., 1 Ag.	Bradenton
Henley, Arlington M., 1 Ag.	DeFuniak Spgs.	Howell, Charles C., 3 AB.	Jacksonville
Henley, William W., 4 Ag.	DeFuniak Spgs.	Howell, Clifton L., 1 B Ad.	Lake City
Hentz, John G., 1 Ag.	Bristol	Howell, Oscar D., 1 B Ad & L.	Tampa
Herbst, Harold E., 1 BS.	Sanford	Hower, Philip P., 3 B Ad.	Paterson, N. J.
Herbst, Warren J., 2 EE.	Sanford	Hubbard, Spence O., 2 PL.	Mulberry
Herin, William A., 2 L.	Miami	Hudson, Aubrey J., 3 Ag.	Jay
Herlong, Byron E., 1 B Ad.	Leesburg	Hudson, J. H., 2 L.	Jay
Hermann, Robert J., 2 Pg.	St. Petersburg	Huffer, J. Craig, G.	Winter Park
		Huffstetler, Wm. P., 2 PM.	Miami

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Huggins, Lawrence C., 1 A.....	Gainesville	Jones, Carl E., 2 BS.....	Century
Hughes, Charles R., G.....	Lake Hamilton	Jones, Carson Y., 3 EE.....	Mims
Hughes, James E., 2 HPI.....	Orlando	Jones, Floyd Q., 1 BAE.....	Wausau
Hughes, Ray C., 3 BS.....	Miami	Jones, Francis D., 2 PL.....	Tampa
Humphreys, Gordon B., 1 E.....	Miami	Jones, Fred G., 1 E.....	Jacksonville
Humphreys, Lee M., 1 E.....	Cocoa	Jones, George R., 2 P.....	Archer
Hunt, Harrison S., 4 BS.....	Leesburg	Jones, Harold E., 1 L.....	Orlando
Hunter, Homer G., 3 BS.....	Pax, W. Va.	Jones, Hastings W., G.....	Aiken, S. C.
Hunter, James H., 3 P.....	Wewahitchka	Jones, Homer, 4 BSE.....	DeFuniak Springs
Hunter, Robert K., 3 J.....	Daytona Beach	Jones, James A., 3 Ag.....	Newberry
Hunter, Walton B., 2 L.....	Tavares	Jones, Jesse D., 1 B Ad-1 HPI.....	Chillicothe, Tex.
Hunter, William F., 1 PL.....	Tampa	Jones, John P., 3 EE.....	Pensacola
Hurt, James L., 4 BS.....	Gainesville	Jones, John W., 1 BAE-1 B Ad.....	Orlando
Hurwitz, Edward I., 1 B Ad, So.	Jacksonville	Jones, L. D., 2 EE.....	Jacksonville
Hussey, Pearson H., 1 HPI.....	W. Palm Beach	Jones, Mancellus E., 1 PM.....	Pensacola
Hussey, Thomas G., G.....	W. Palm Beach	Jones, Stanley B., 3 B Ad.....	Pt. Tampa City
Hutchinson, Arnold G., 2 Ag.	Penney Farms	Jones, Troy, 3 Ag.....	Franklin, Tenn.
Hytzler, Damon A., 4 BAE.....	Orsino	Jordan, Burwell L., 2 L.....	Tampa
Hyatt, Robert F., 1 P.....	Gainesville	Jordan, William L., 1 A.....	Tampa
Inman, George H., 1 PL.....	Starke	Joseph, Ralph, 1 PM.....	Jacksonville
Ireland, George H., 2 BAE.....	Tallahassee	Joubert, William H., 3 B Ad.....	Tampa
Irwin, Thomas M., 3 BS.....	Jacksonville	Juan, Gervacio E., G.....	Castilljos, P. I.
Ives, Selwyn C., 3 L, 4 BAE.....	Lake City	Judy, Dick W., 1 L.....	Tampa
Ivy, Gates T., 2 B Ad.....	Tampa	Junkin, John L., 1 B Ad & L.....	Miami
Jackson, A. B., 4 Ag.....	Clearwater	Justice, John D., 2 PL.....	Sarasota
Jackson, Elmo L., 1 B Ad.....	Jacksonville	Kalinowsky, John J., 1 HPI.....	Gainesville
Jackson, George E., 1 B Ad.....	Tampa	Kaltenbach, Nelson J., 1 E.....	Jacksonville
Jackson, James L., 1 B Ad.....	Ft. Myers	Kamins, Peter C., 3 BSMA, Tarpon Springs	
Jackson, Truxton L., 1 PM.....	Miami	Kania, Mitchell J., 2 B Ad.....	Gainesville
Jackson, Wesley B., 4 J.....	W. Palm Beach	Kanner, Samuel J., 1 PL.....	Miami
Jackson, William K., 1 A.....	Miami	Kaplan, Henry H., 1 PM.....	Revere, Mass.
Jacobsen, Olaf, 1 PM.....	Pensacola	Kass, Sidney C., 1 L.....	Jacksonville
Jacobus, Lemuel W., 2 J.....	Cocoa	Katsch, James E., 3 P.....	Miami
Jahn, Fred S., G.....	Richey	Kea, J. W., 2 Ag.....	Hawthorn
James, Harry R., 1 B Ad.....	Jacksonville	Keator, Goodale R., 2 B Ad & L, Dayton, O.	
James, Joe B., 2 BAE.....	Clearwater	Keefe, Edward J., 1 B Ad.....	Tampa
Jamie, Roland W., 1 Ag.....	Seffner	Keel, Walker, 1 AB.....	Mulberry
Jamison, James R., 4 Ag.....	Wabasso	Keeler, Emerson M., 4 EE.....	Miami
Janes, Chester H., G.....	Wauchula	Kehler, Reed S., 2 B Ad.....	St. Petersburg
Jaudon, A. L., 2 B Ad.....	Tampa	Kelley, Gayle, 4 BSE.....	Haines City
Jefferson, Wayne O., G.....	Gainesville	Kelley, Herschell W., 2 ME.....	Perry
Jenkins, Joe, 3 B Ad.....	Leesburg	Kelley, John A., 1 B Ad.....	W. Palm Beach
Jenkins, Joe C., 2 L.....	Gainesville	Kelley, Welcom T., 4 BS.....	Valdosta
Jenkins, William S., 2 Pg.....	Jacksonville	Kelly, Birdie L., 5 BAE.....	Gainesville
Jennings, William L., 4 BS.....	Jennings	Kelly, Chas. Wm., 1 B Ad.....	Sarasota
Jernigan, Claude H., G.....	Marianna	Kelly, J. R., 3 B Ad.....	Fernandina
Jernigan, Jack W., 4 Ch E.....	Gainesville	Kelly, T. P., 2 AB.....	Tampa
Jewell, T. Watts, 3 BS.....	Jacksonville	Kemp, William D., 2 A.....	New Berlin
Jibb, William F., 1 L.....	Jacksonville	Kendrick, Wilson H., 1 Ag.....	Noma
Johansen, Beppo R., 4 AB, 3 L.	Clearwater	Kenney, Basil E., 1 E.....	Caryville
Johansen, Hans R., 4 J.....	Clearwater	Kessler, Samuel, 2 L.....	Leesburg
Johnson, Alex R., G.....	Sanford	Kester, Edson E., 4 EE.....	Jacksonville
Johnson, B. Alexander, 2 L.....	Lake Wales	Keyes, Richard W., 2 B Ad.....	Orlando
Johnson, Hubert L., 2 B Ad.....	Ft. Ogden	Kilby, John D., 2 BSE.....	Quincy
Johnson, J. B., 3 Ag.....	Trenton	Killinger, Clarence E., 4 ME.....	Gainesville
Johnson, James H., 2 B Ad.....	Trenton	Kinard, Richard R., 1 BS.....	Crescent City
Johnson, James H., 1 BSE.....	Wauchula	King, David B., 4 HPI.....	Eustis
Johnson, John W., 1 PM.....	Tampa	King, Harry B., 1 B Ad.....	Jacksonville
Johnson, Leonard E., 4 EE.....	Orlando	King, Russell S., 2 ME.....	Sarasota
Johnson, Levi M., 4 Ag.....	Miami	Kinsaul, William W., 1 BAE.....	Gainesville
Johnson, Loftin, 3 EE.....	Waldo	Kinser, James H., 1 BS.....	Eustis
Johnson, Malcolm B., 1 PM.....	Jacksonville	Kinsey, Harold D., 1 B Ad.....	Ft. Pierce
Johnson, Oliver P., 3 L.....	St. Cloud	Kinzie, Ernest B., 2 BSE.....	Ft. Myers
Johnson, Raybon T., 1 E.....	Miami	Kipp, Robert E., 1 BSE.....	Sanford
Johnson, Richard S., 4 P.....	Gainesville	Kirby-Smith, John S., 2 BS.....	Sewanee, Tenn.
Johnson, Robert H., 1 BS.....	Trenton	Kirby-Smith, Reynold M., 4 CE, Jacksonville	
Johnson, W. Carey, 1 B Ad, So.	Boca Grande	Kirchhaine, William F., 1 Ag, Tarpon Spgs.	
Johnson, William L., 4 B Ad.....	Key West	Kirker, Eugene A., 3 BS.....	Gainesville
Johnston, Jay B., 2 AB.....	St. Cloud	Kirkland, Charles O., 4 BS.....	Laurel Hill
Johnston, Samuel W., 1 E.....	Orlando	Kirkland, Henry G., 2 EE.....	Gainesville
Johnston, Steve R., 2 PM.....	Ft. Pierce	Kirkland, Sanford H., 2 B Ad.....	Tampa
Johnwick, Edgar B., 5 BS.....	Gainesville	Kirkpatrick, John W., 3 AB.....	Gainesville
Johnwick, Erwin F., 3 BAE.....	Gainesville		
Jones, Arthur H., 4 AB.....	Pensacola		

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Kirsch, Ralph E., 2 PM.	Miami Beach	Leaird, George W., 3 B Ad.	Ft. Lauderdale
Kirstein, Paul H., 2 B Ad.	Tampa	Leatherwood, Dowling B., 1 J.	Slater
Kirton, Joe S., 3 L.	Winter Garden	Lee, Charles R., 1 L.	Clearwater
Kiser, Randolph L., 4 P.	Key West	Lee, David B., 4 ME.	Jacksonville
Kitchens, Boze H., 1 BAE.	Fine Mount	Lee, Marion B., 2 B Ad.	Tampa
Klotz, Leslie J., 1 E.	Jacksonville	Leete, David A., 1 A.	Daytona Beach
Knezo, John, 1 B Ad & E-1 E.	Brooksville	Leffers, Richard, 1 B Ad.	Lakeland
Knight, Ellen V., 1 L.	Miami	Lehman, Bruce G., 3 AB.	Miami
Knight, Fred Key, G.	Crescent City	Leibovitz, Morris, 1 B Ad & E.	Jacksonville
Knight, Paul E., 2 B Ad.	Starke	Leighton, LeRoy G., 1 E.	Jacksonville
Knight, William H., 2 PL.	Gainesville	Leitch, Dana T., 2 BSE.	Lynn Haven
Knoll, Herman, 2 ME.	Fleischmanns, N. Y.	Leland, Aaron W., 5 Ag.	Gainesville
Knott, James R., 1 L.	Tallahassee	Lenfestey, G. Sydney, 2 B Ad.	Tampa
Knowlton, John F., 1 AB.	St. Petersburg	Lenkerd, John P., 1 E.	DeLand
Knox, Oscar J., 1 PM.	Kissimmee	Lerner, Irving, 2 PM.	Fleischmanns, N. Y.
Koegler, William F., 1 L.	Miami	Lester, Henry G., 1 PL.	Tampa
Konopka, Victor T., 1 AB.	Paterson, N. J.	Lester, Joseph L. G., 1 AB.	Key West
Kramer, Fred C. W., 2 BS.	Leesburg	Leto, Ateo P., 2 BAE.	Tampa
Kramer, George W., 3 Ag.	Winter Haven	Leto, Bruno, 3 Ch E.	Tampa
Kramer, Henry, 1 B Ad & L.	Jacksonville	Letsinger, Robert E., 1 LD.	St. Petersburg
Kramer, Robert S., 1 E.	Leesburg	Levey, Bernard F., 2 Ch E.	Pensacola
Kreher, Gerhardt P., 1 E.	Tampa	Levinstein, Albert K., 3 BAE.	St. Petersburg
Krome, William H., 1 Ag.	Homestead	Levy, Benjamin, 2 PM, 2 P.	Miami
Kubessarian, Garabed G., 3 Ch E.	Gainesville	Lewinson, Samuel, 1 PM.	Sarasota
Ladd, Thomas S., 1 B Ad.	Jacksonville	Lewis, Frank G., 2 Ch E.	W. Palm Beach
Lagano, Albert A., 2 HPI.	Gainesville	Lewis, George, 1 B Ad.	Tallahassee
Lamb, Robert J., 1 BS.	So. Jacksonville	Lewis, Nathaniel L., 2 PL.	Orlando
Lambert, Edgar J., 2 BS.	Miami	Lewis, Rudolph A., 1 AB.	St. Petersburg
Lambertson, Francis W., 3 BAE.	Gainesville	Lieberman, William, 1 L.	Orlando
Lamborn, Albert G., 4 B Ad.	Tampa	Ligon, Edward C., 2 B Ad.	W. Palm Beach
Lamborn, Bert L., 4 B Ad.	Tampa	Lindsey, Howard W., 1 HPI.	Geneva
Lamphere, Joel R., 2 B Ad.	St. Petersburg	Lindsey, Kirby S., 2 BS.	Alachua
Lancaster, Carroll L., 2 B Ad.	Punta Gorda	Lindsey, X. L., 5 BSE.	Alachua
Lancaster, Glen S., 1 P.	Punta Gorda	Lindsay, James S., 2 BS.	St. Augustine
Lancaster, Howell E., 1 HPI.	Trenton	Lindstrom, Evan T., G.	Miami
Land, Henry Wm., 3 Ag.	Apopka	Link, Howard M., 1 LD.	Orlando
Lander, David L., 1 B Ad.	Lakeland	Linning, William S., 1 J.	Jacksonville
Landon, James T., 3 B Ad.	Jacksonville	Lippton, Irving B., 1 B Ad.	Leesburg
Landrum, T. Frank, 2 L.	Brooksville	Lipsitz, William, 1 L.	Leesburg
Landrum, Tom J., 2 B Ad & L.	Tampa	Lipton, Simon M., 1 P.	Miami Beach
Lane, Howard H., 1 B Ad.	Coral Gables	Lister, Kenneth J. D., 2 Ch E.	Cantonment
Lane, Thomas W., 5 Ag.	Tampa	Litherland, Gerald J., 3 HPI.	Ocoee
Laney, LeRoy Bruce, 1 B Ad.	Sanford	Lively, Laban G., 1 L.	Tampa
Langbehn, Franklin P., 4 A.	Gainesville	Livingston, Clifford, 2 B Ad.	Tampa
Langbehn, Harold E., 2 EE.	Miami	Livingston, Howard G., 3 L.	Orlando
Langford, E. A., 1 BS.	Lakeland	Loessner, Arno G., 1 BSE.	Lake City
Langley, Frank B., 1 B Ad.	Jacksonville	Loften, William T., G.	Alachua
Lantaff, William C., 2 AB.	Tampa	Logan, Hugh C., 3 Ag.	Tampa
Lapsley, Norvel A., 1 J.	Clearwater	Long, Edward L., 1 B Ad.	Tallahassee
Larkin, Edward B., 2 PM.	Dade City	Long, Elmer M., 1 Ag.	Orlando
Larson, John E., 2 L.	Keystone Heights	Long, Richard H., 1 P.	Starke
Larson, Lawrence J., G.	Tampa	Look, James H., 1 A.	Panama City
Lastinger, Allen L., 1 Ag.	Sarasota	Lopez, Aquilino, 2 L.	Key West
Latham, Herbert S., 1 L.	Pensacola	Lord, John R., 1 E.	Orlando
Latham, Roland O., 2 AB.	Gainesville	Lord, Mills M., 4 BAE.	Sanford
Lau, Robert C., 1 B Ad.	Tampa	Loucks, Merle K., 1 L.	Tallahassee
Lau, Earl W., 3 B Ad.	Winter Garden	Loughridge, Glenn E., 3 B Ad.	Boyd
Lau, Wah Chun, 2 B Ad.	Canton, China	Love, Cecil E., 1 PM.	High Springs
Lauderback, Andrew Wm., 2 B Ad & E.	Jacksonville	Love, James L., 2 BS.	DeLray
Lautz, Edward H., 3 B Ad.	Miami	Love, William K., 2 PL.	Lakeland
Lavery, Harry J., 1 E.	Hialeah	Low, Robert C., 1 B Ad & L.	Ocala
Lavin, Charles G., 1 HPI.	Gainesville	Low, Thomas M., G.	Gainesville
Lavin, John S., 1 L.	Sarasota	Lower, Eston F., 2 ME.	Tampa
Lawhorn, LaDell C., 2 PL.	Gainesville	Lowrie, Edward N., 1 PL.	Tallahassee
Lawless, William W., 4 Ag.	Lake Alfred	Lucas, Glenn H., 3 Ag.	Bradenton
Lawless, Winston F., 1 yr. Ag.	Lake Alfred	Lucas, Maurice E., 3 L.	Tampa
Lawrence, Fred P., 3 Ag.	Gotha	Lupfer, J. Earle, 2 BS.	Kissimmee
Lawrence, Helen J., G.	Keystone Heights	Luria, Sydney, 4 BS.	Miami Beach
Lawrence, Oscar B., 1 B Ad & L.	Jacksonville	Luttrell, Karl F., 5 BAE.	Brooksville
Lawton, John K., 1 PL.	Oniedo	Lyell, John M., 4 A.	Miami
Lazobzy, Joseph L., 3 L.	Ft. Lauderdale	Lyle, William R., G.	Bartow
Leach, G. D., 3 EE.	Leesburg	Lyman, Arthur R., 2 B Ad.	Lake Worth
		Lynch, Harold J., G.	Faribault, Minn.
		Lynch, Sylvester J., 2 Ag.	San Antonio

<i>Name and Classification</i>	<i>Address</i>	<i>Name and Classification</i>	<i>Address</i>
Lynch, Wilbur W., 1 E.	Pensacola	McInnis, Sam W., G.	O'Brien
Lynn, Woodrow L., 1 BS-1 E.	Tampa	McIntire, James E., G.	Trenton
Lyon, S. C., 2 Ag.	Gainesville	MacKay, Reginald G., 5 BS.	Ocala
Lytle, Ernest J., 2 BS.	East Lake	McKenzie, David M., 3 BS.	Bunnell
McAdam, Charles B., 4 CE.	Pensacola	McKethan, John W., 1 B Ad & L.	Brooksville
McAdam, William E., 3 B Ad.	Pensacola	McKinley, Frank H., 2 EE.	Gainesville
McAIny, Herbert L., 1 B Ad.	Arcadia	McKinney, James M., 2 PL-2 Ag.	Gainesville
McAnly, William E., 2 ME.	Arcadia	MacKrilie, Alfred E., 3 B Ad.	New Haven, Conn.
McArthur, Gertrude, G.	Melrose	McLean, Amos E., 1 B Ad & E.	Tampa
McArthur, Hugh L., 1 L.	Tampa	McLean, Andrew P., 3 P.	Pensacola
McBride, Robert L., 1 B Ad.	Ft. Meade	McLean, Donald S., 4 Ag.	Bartow
McCaghren, Alfred W., 1 E.	Lakeland	McLean, Oliver C., 5 HPI.	Kissimmee
McCall, James L., 2 Ch E.	Tampa	McLeod, Wallace L., 4 AB.	Aucilla
McCampbell, George H., 1 HPI.	W. Palm Beach	MacMillan, Hugh, 2 AB.	Orange City
McCandless, Jack S., 2 A.	St. Petersburg	McMullen, J. Tweed, 2 AB.	Clearwater
McCartney, Harry, 1 B Ad.	Tampa	McMullen, Robert W., 1 B Ad & E.	Tampa
McCartney, Thomas, 2 B Ad.	Tampa	McMullen, Walton B., 1 B Ad.	Clearwater
McCafty, Dan T., 2 Ag.	Ft. Pierce	McQuitty, Louis L., 4 BSE.	Curran, Ill.
McCarthy, William A., 3 A.	Gainesville	McRae, William A., 2 L, 4 AB.	Jacksonville
McCaughan, J. Russell, 4 AB.	Pensacola	McVoy, Arthur D., 3 A.	Gainesville
McCaul, Thomas V., 1 L.	Gainesville	McVoy, Edgar C., 2 AB.	Gainesville
McCain, Carl L., 1 E.	St. Petersburg	Maas, Ernest, 2 B Ad.	Tampa
McClanahan, Robert C., 2 BSE.	Pensacola	Mack, Richard A., 4 B Ad.	Miami Beach
McClane, James H., 1 BS.	Gainesville	Macloskie, Charles W., 2 BS.	Erie, Penna.
McCane, Thomas K., 1 Ag.	Gainesville	Madden, Fred M., 5 Pg.	Gainesville
McClellan, Broward, 4 HPI.	Frink	Maddox, Russell C., 3 HPI.	Gainesville
McClellan, Chester M., 2 HPI.	Tallassee, Ala.	Madigan, James E., 1 B Ad.	Jacksonville
McClellan, James A., 3 Ag.	Monticello	Magann, Henry E., 1 E.	Jacksonville
McClellan, Roby B., 2 PL.	Jacksonville	Magid, Louis, G.	Tampa
McClelland, Clifton A., 1 HPI.	Avon Park	Mahaffy, Conrad B., 4 B Ad.	Jacksonville
McClelland, Clyde R., 2 HPI.	Lakeland	Mahone, John T., 5 CE.	Tallahassee
McCloud, Daniel D., 2 Ag.	Bradenton	Maines, Orlando M., 4 Ag.	Gainesville
McClure, Tom W., 2 B Ad & L.	Tampa	Major, Charles W., 1 PL.	St. Petersburg
McClurg, Ernest C., 1 B Ad & L.	Lakeland	Makemson, Robert H., 2 B Ad.	Ft. Lauderdale
McColum, Bert H., 1 B Ad.	Tampa	Makowsky, William S., 2 BSE.	Artesia
McColum, Malcolm S., 2 BAE.	Bushnell	Mallory, Eschol M., 3 P.	Orlando
McColum, Osear O., 2 L.	Jacksonville	Malphurs, Ojus, 4 CE.	Citra
McColskey, John S., 4 Ag.	Lake City	Maltz, Sam, 2 PL.	Bayonne, N. J.
McCormick, Fenwick T., 2 Ag.	Gainesville	Mann, Clifford E., 5 Ag.	Winter Haven
McCormick, Rayford C., 3 HPI.	Gainesville	Mann, Francis S., 1 BSE.	Gainesville
McCown, Harold L., 1 BS.	Umatilla	Mann, James W., 1 B Ad.	Rhinebeck, N. Y.
McCown, James W., 1 B Ad.	Umatilla	Mansfield, Ernest B., 3 ME.	St. Petersburg
McCown, J. R., 2 AB.	Umatilla	Manucy, Albert C., 4 BAE.	St. Augustine
McCoy, Robert C., 2 B Ad.	Winter Haven	Marco, Milton B., 2 Ag.	Jacksonville
McCracken, Ernest M., G.	Erlanger, Ky.	Markett, Davis L., 3 L.	Arcadia
McCraw, John C., 4 CE.	Gainesville	Markey, William K., 1 Pg.	Orlando
McCredie, Robert E., 1 E.	Miami	Marks, Esmond E., 1 AB.	Orlando
McCrory, Seaborn M., 1 E-1 BSE.	W. Palm Beach	Marsh, Edward M., 1 A.	Jacksonville
McCrystal, Robert W., 1 AB.	Sandusky, Ohio	Marshall, Samuel H., 3 B Ad.	Ft. Lauderdale
McCubbin, E. Lee, 3 B Ad.	Jacksonville	Martin, James A., 2 Pg.	Gainesville
McCully, Faunce R., 2 EE.	Jacksonville	Martin, James C., 3 P.	Moss Bluff
McCune, Marion C., 3 B Ad.	Miami	Martin, James Wm., 2 B Ad.	Winter Park
McDonald, Daniel C., 2 B Ad & L.	Archer	Martin, John Wm., 1 BAE.	Hawthorn
McDonald, Frank A., 1 PM.	Tampa	Martin, Melbourne L., 1 L.	Miami
McDonald, Gregory, 1 PL.	River Junction	Mason, D. Powell, 1 Ag.	Leesburg
McDonald, Harry G., 1 L.	Plant City	Mason, John D., 1 PL.	Bradenton
McDonald, Thomas B., 3 AB.	Monticello	Mason, John H., 2 PM.	Bradenton
McDonald, Walter H., 2 BAE.	Jacksonville	Massari, Frank G., 2 L.	Tampa
MacDowell, Evans W., 1 E-1 AB.	W. Palm Beach	Massey, James L., 2 PM.	Quincy
MacDowell, Louis G., 3 BS.	Melbourne	Matson, Neal L., 1 B Ad.	Eustis
MacDowell, William H., 1 J.	Gainesville	Mathews, Ruben R., 4 B Ad.	Leesburg
MacDuff, Stanley I., 3 ME.	Daytona Beach	Mathis, Harvey D., 3 B Ad.	Panama City
McDuffee, William T., 1 E.	Pensacola	Mathis, Joseph I., 2 B Ad & L.	Panama City
McElroy, Sylvan, 1 BS.	Orlando	Mathis, Randall H., 1 HPI.	Panama City
McEwan, Oswald B., 1 AB.	Orlando	Mathews, E. Lavern, 3 BSAE.	Ponce de Leon
McEwen, James M., 3 L, 4 AB.	Wauchula	Mathews, Howard A., 1 Ag.	Ponce de Leon
McGee, Lawrence F., 1 B Ad.	Lake Worth	Mathews, Rees J., 1 HPI.	Summerfield
McGehee, Murphy S., 1E.	Newberry	Mathews, Robert S., 1 J.	Gainesville
McGovern, Donald C., 3 L.	Jacksonville	Maxwell, Russell M., 1 BSE.	Sarasota
McGriff, George E., 1 Ag.	Gainesville	Mayo, William T., 2 L.	So. Jacksonville
McGriff, William A., 1 PM.	Gainesville		

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Mead, John P., 2 Ch E.	Cantonment	Moon, Clyde L., 1 BAE.	Gainesville
Meagher, Leslie M., 1 L.	Indiantown	Moon, Leland W., G.	Gainesville
Meffert, Marion C., 4 B Ad.	Lowell	Moon, Robert C., G.	Gainesville
Meginniss, Ben A., 2 J.	Tallahassee	Mooney, Brian G., 2 ME.	Washington, D. C.
Mehlman, George B., 2 L.	Jacksonville	Moore, Eddie C., 2 HPL.	Clearwater
Mehrhof, Norman R., G.	Ridgefield Park, N. J.	Moore, Francis E., 2 B Ad.	Marathon
Mehrtens, William O., 3 L.	Jacksonville	Moore, Glenn D., Jr., 2 A.	Hawthorn
Mendez, G. H., 3 Ag.	Tampa	Moore, James W., 2 HPL.	Ft. Myers
Menendez, Ernest M., G.	Tampa	Moore, John P., 3 BS.	Ocala
Menendez, Manuel J., 5 B Ad.	Tampa	Moore, Kingman C., 3 B Ad.	Orlando
Menery, Wilbur E., 2 PM.	Tampa	Moore, Otto F., 2 HPL.	Lakeland
Menneken, Carl E., 4 BS.	Miami Beach	Moore, Robert J., 1 PM.	Lake City
Merchant, Thomas C., 5 BS.	Madison	Moore, William E., G.	Bishopville, S. C.
Merrill, George B., 5 Ag.	Gainesville	Moore, William H., 1 BS.	Starke
Merrill, Isaac L., 2 AB.	Daytona Beach	Moorhead, Max J., 3 B Ad.	Mt. Dora
Merrill, Ralph S., 2 ME.	Pensacola	Morales, Nester A., 2 L.	Tampa
Merritt, Angus C., 5 EE.	Gainesville	Morgan, Charles, 2 B Ad & L.	Tampa
Mickle, William B., 1 AB.	DeLand	Morgan, Chester G., 5 PM.	Orlando
Middlekauff, Walter J., 1 HPL.	Jacksonville	Morgan, Fred K., 1 PL.	Tampa
Middleton, Norma, G.	Leesburg	Morgan, George E., 3 AB.	Sound Beach, Conn.
Midulla, Joseph N., 1 BS.	Tampa	Morgan, Glenn H., 2 Pg.	Tampa
Milam, Marcus A., 1 Ag.	Miami	Morgan, Joseph, 4 BAE.	Jasper
Miley, Douglas G., 1 Ag.	Plant City	Morris, Alton C., G.	W. Palm Beach
Miley, Ralph K., 1 B Ad.	Tampa	Morris, David C., 3 AB.	Brooklyn, N. Y.
Miller, Charles, 2 L.	Jacksonville	Morris, Henry J., 1 Ag.	Cottontale
Miller, Dennis E., 3 HPL.	W. Palm Beach	Morris, Oscar D., 1 E.	Gainesville
Miller, Edward F., 1 P.	Miami	Morrison, Mathew E., 3 BSE.	St. Petersburg
Miller, Edward L., G.	Miami	Morrison, Willis G., 1 A.	Daytona Beach
Miller, Frank L., Jr., 3 B Ad.	Sanford	Morrow, John A., G.	Gainesville
Miller, G. C., 2 Pg.	Interlachen	Morrow, John C., 2 BS.	Gainesville
Miller, Hubert L., 1 B Ad.	Eustis	Morton, Paul Vane, 2 B Ad.	Zellwood
Miller, John L., 1 BS.	Vero Beach	Moscovitz, Isadore, 3 J.	Jacksonville
Miller, Saul D., G.	Gainesville	Mosier, Charles L., 4 AB.	Miami
Miller, Shirley M., 1 Pg.	Tampa	Moskowitz, Elmer, 2 PM.	Coral Gables
Miller, William B., 1 A.	Miami	Moss, John H., 1 B Ad.	Greenacres
Miller, Wilbur K., 4 A.	Orlando	Moss, Nathan A., 2 B Ad.	Sanford
Miller, William G., G.	Birmingham, Ala.	Moss, Vivian W., Jr., 1 E.	Tampa
Miller, William L., 1 AB.	DeFuniak Spgs.	Moss, William J., 2 BS.	Haines City
Miller, William W., 3 CE.	Tallahassee	Mossbarger, Henry I., 2 Ch E.	Miami
Milliean, James H., 3 L.	Palatka	Motley, Herman H., Jr., 3 AB.	Jacksonville
Mills, Brantley R., 2 Ag.	Live Oak	Motley, Porter F., 1 BS.	Jacksonville
Mills, Eugene S., 1 B Ad.	Plant City	Mouser, Richard W., 5 Ag.	Orlando
Mills, Harrison M., 2 HPL.	Archer	Mowat, Donald D., 2 Ag.	Lynn Haven
Mills, James R., 2 Ag.	Archer	Mowry, Harold, G.	Gainesville
Milton, John D., 3 BS.	Marianna	Moyal, Abraham, 2 Ag.	Tel-Avir, Palestine
Minardi, John B., 2 L.	Tampa	Moye, Ralph G., 1 HPL.	Sanford
Miner, William H., 1 E.	Lawtey	Moyer, John B., 2 Ch E.	Melbourn
Minton, William H., 1 P.	Palatka	Mulrennan, John A., 4 Ag.	Sydney
Mitchell, George W., 1 E.	Tampa	Mulrennan, Joseph B., 3 Pg.	Sydney
Mitchell, John A., 1 P.	Mulberry	Murphy, David P., 1 PM.	Mulberry
Mitchell, Jack E., 2 ME.	Coconut Grove	Murphy, Ralph B., Jr., 1 AB.	Jacksonville
Mitchell, James E., 4 Ch E.	Ortega	Murphy, James H., 1 Ag.	Lake Como
Mitchell, Sydney, 2 BS.	Corona, N. Y.	Murphy, James, 1 PL.	Tallahassee
Mitchell, William K., 5 BS.	Gainesville	Murphy, Sam G., 2 B Ad.	Bradenton
Mizell, Charles G., 2 BSE.	Gainesville	Murray, Nelson A., 1 Ag.	Jacksonville
Mizell, Jackson, 1 L.	Fernandina	Musselman, Randall R., 3 Ag.	Dade City
Mizrahi, Ralph S., 3 A.	Jacksonville	Musser, Marshall C., Jr., 2 L.	St. Petersburg
Mobley, Thomas E., 1 B Ad.	Winthrop, Mass.	Musso, Anthony, 5 P.	Tampa
Moesser, William J., 2 CE.	Daytona Beach	Myers, William M., 3 AB.	Rockledge
Moffett, Robert T., 1 E.	Miami	Myres, Franklin K., 1 BS.	Gainesville
Mollet, Charles E. F., G.	Missoula, Mont.	Naff, Mortimer H., 1 E.	DeLeon Springs
Molloy, Wilfrid C., 1 HPL.	St. Petersburg	Neefus, James L., 3 ME.	Rockledge
Mondul, Moses, 1 E.	Miami Beach	Neel, John E., 5 B Ad & L.	Tampa
Monfils, Joseph T., 1 PL.	Miami Beach	Neel, John S., 1 L.	High Springs
Montanye, Jack S., 1 BS.	Jacksonville	Neff, Thomas O., 4 EE.	Jacksonville
Montario, George L., 1 L.	St. Petersburg	Nelson, Eugene R., 3 Ag.	Bushnell
Montgomery, James D., 4 BAE.	Gainesville	Nelson, Floyd J., 4 EE.	Umatilla
Montgomery, Robert C., 1 BS.	Jacksonville	Nelson, William H., 2 B Ad.	Jacksonville
Montgomery, William F., 1 PM.	Gainesville	Neville, Richard W., 2 B Ad.	Lakeland
Moody, Bruce R., 1 PM.	Summerfield	Newbern, Copeland D., 3 Ag.	Worthington
Moody, Frank H., 3 B Ad.	Plant City	Newkirk, Benjamin F., 4 ME.	Tampa
Moody, Thomas E., Jr., 3 B Ad.	Plant City	Newman, Frederick H., 2 L.	Jacksonville
Moody, Willie J., 1 BS.	Perry	Newson, E. C., 4 B Ad.	Jacksonville

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Nichols, John E., 2 PL.	W. Palm Beach	Paul, Drummond, 1 PL.	Jacksonville
Nicholson, Carl A., 1 BS.	Jacksonville	Paul, Thomas, 5 E.	Palmetto
Nicholson, Louis M., 1 E.	Daytona Beach	Payne, Beecher W., 1 BSE.	Dowling Park
Nietzel, Albert L., 4 P.	Muscataine, Iowa	Peabody, Wright W., 3 L.	Coral Gables
Nisbet, David S., 2 Ag.	Cocoa	Peacock, Charles F., 1 Ag.	Altha
Nixon, Erby M., 3 BS.	Gainesville	Pearson, James T., 3 AB.	Miami
Noel, Leon W., 3 B Ad.	St. Petersburg	Pearson, Seibert C., G.	Alachua
Noell, James L., 2 B Ad.	Gainesville	Peckham, Stanley J., 3 AB.	Lake Mary
Nolan, Vincent B., 2 EE.	Fernandina	Pedersen, Robert W., 4 B Ad.	Bartow
Norfleet, William, 1 BSE.	Newberry	Peel, Vincent, 2 AB.	Melbourne
Norris, Hardgrove S., 1 Ag.	St. Augustine	Pence, Leland H., 4 BS.	Orlando
Norris, Robert E., 2 Ag.	Tampa	Pendergrass, Sanford H., 4 A.	Macon, Ga.
Northup, Floyd L., G.	Miami	Pendino, Joseph A., 4 BS.	Tampa
Norton, Charles B., 2 Ch E.	Jacksonville	Pennock, Abraham L., 2 Ag.	Jupiter
Norton, Howard M., 4 J.	Miami	Pepper, Louis C., 2 L.	Gainesville
Nuccio, Sam G., Jr., 1 PM-1 Ph.	Tampa	Perez, Reinardo R., 2 EE.	Tampa
Nunez, George T., G.	Perry	Ferez, William D., 1 L.	Tampa
Nunnally, Barton H., 3 B Ad.	Tampa	Perkins, C. C. G.	Gainesville
Oakley, George R., 4 Ag.	Orlando	Perkins, Lindsey S., 2 BAE.	Pine Castle
Oberdorfer, Douglas W., 3 AB.	Jacksonville	Perkins, Raymond H., 2 ChE.	Mt. Dora
O'Brien, Matt M., 2 L.	Tampa	Perloff, Lewis, 4 B Ad.	Jacksonville
O'Brien, Michael J., 2 L.	Tampa	Perrine, Wayne H., 2 L.	Gainesville
O'Bryan, William A., 1 P L.	Kissimmee	Perry, Clyde, Jr., 1 PL.	Tampa
O'Connor, Francis J., 2 B Ad.	Sanford	Perry, Newton A., 2 HPI.	Ocala
Ogier, Dwight E., 1 PM.	Jacksonville	Perry, William G., 4 EE.	Miami
O'Hara, Marvin A., 2 BSE.	Live Oak	Perry, W. Russ, 2 ME.	Tampa
Oliver, Donald, 3 L.	Gainesville	Peterman, Melener C., 4 CE.	Gainesville
Oliver, James W., 1 AB.	St. Petersburg	Peters, Henry H., 1 B Ad.	Jacksonville
O'Mahoney, Jeremiah P., 3 L.	Gainesville	Peters, John D., 3 B Ad.	Sanford
Orr, Peter E., 1 PM.	Miami	Peterson, Johnnie E., 1 BAE.	Southport
Osborn, Francis S., 5 BAE.	Miami Beach	Peterson, Johnnie L., 2 PL.	Miami
Osgood, Simon T., 2 BSMA.	Tampa	Petrow, Edward V., 1 PM.	Miami
O'Shaughnessy, Marion T., Jr., 2 AB.	Miami	Pheil, Clarence E., 5 HPI.	St. Petersburg
Osteen, Osmond L., 3 EE.	Ft. Myers	Phelps, Allen K., 1 E.	Monticello
Ostner, Jacob, 1 B Ad.	Ortega	Phifer, Charles W., 5 ME.	Gainesville
Otte, Burton J. H., G.	Gainesville	Phillips, Wallace M., 1 E.	Sanford
Overpeck, Boyd H., 2 AB.	Orlando	Philpott, Frank E., Jr., 4 HPI.	St. Cloud
Owen, Henry B., 1 PM.	St. Augustine	Pickron, John N., 2 PM.	Tampa
Owen, Maurice, 1 BS.	Clearwater	Pierce, Emory L., Jr., 1 BS.	Key West
Owens, Karl R., 1 Ag.	Yulee	Pierce, Harvey F., 4 EE.	W. Palm Beach
Owens, Wesley D., 2 P.	Gainesville	Pierson, John E., G.	Ripley
Oxford, George W., 1 B Ad & L.	Jacksonville	Pillsbury, Alexander H., 1 E.	Jacksonville
Packard, Freeman G., Jr., 3 Ch E.	St. Augustine	Pillsbury, Dexter A., 3 B Ad.	Jacksonville
Paderewski, Alexander, 1 PM.	Arcadia	Pinkoson, Joe, 2 PL.	St. Augustine
Padgett, Hansford, 1 L.	Gainesville	Pinney, Charles B., 4 AB.	Alva
Padrack, Charles V., 2 PL.	Ft. Pierce	Pirenian, Zarah M., G.	Gainesville
Paige, Ralph E., 3 HPI.	Gainesville	Pitman, Robert G., Jr., 3 BAE.	Apopka
Palmer, Addison W., Jr., 2 BS.	Jacksonville	Pittman, Perry P., 1 E.	Hialeah
Parajon, Rolando V., 3 EE.	Habana, Cuba	Platt, William J., 3 Ag.	Summerfield
Parker, Henry C., 1 B Ad.	High Springs	Pless, James H., 1 AB.	Gainesville
Parker, Jacob G., 1 B Ad & L.	Tallahassee	Plumer, Herbert F., Jr., 1 BS.	Douglastown, N. Y.
Parker, Raymond L., 1 PL.	Miami	Plympton, Waldo H., 1 L.	Winter Park
Parker, Seeber, 3 EE.	St. Petersburg	Poe, Frank H., 1 E.	Coconut Grove
Parker, W. Fletcher, 1 BS.	High Springs	Polk, James R., 1 HPI.	Leesburg
Parkhill, John R., 1 L.	Tampa	Pollock, George I., Jr., 1 HPI.	St. Augustine
Parks, Lloyd, 3 BSMA.	DeLand	Pond, Johnnie, 4 Ag.	Frostproof
Parks, Norman K., 1 B Ad & L.	Ft. Lauderdale	Pope, Paul M., 1 E.	Jacksonville
Parnell, Ed. N., 4 BAE.	Jensen	Porter, Frank L., 2 PM.	W. Palm Beach
Parramore, Clarence G., 1 J.	Tallahassee	Porter, Joseph Y., 3 L.	Key West
Parrish, J. J., Jr., 2 PL.	Titusville	Porter, M. Jones, 1 B Ad & L.	Ocala
Partin, O. L., 1 Ag.	Kissimmee	Porter, Ralph E., 1 BAE.	Marianna
Partlow, James R., 1 B Ad.	So. Jacksonville	Porton, Robert Y., 2 B Ad.	Tampa
Pasco, Sam, Jr., 3 L.	Pensacola	Posey, Grover N., 2 AB.	Ocala
Pasco, W. D., 2 ME.	Pensacola	Post, Robert V., 2 B Ad.	Miami
Patrick, Merle C., 1 L.	St. Petersburg	Potts, Joseph D., 4 AB.	Gainesville
Patronis, Allen G., 2 BSE.	Tallahassee	Pound, Cicero A., Jr., 1 E.	Gainesville
Patton, George L., 2 L.	Miami	Prather, William H., 2 Ag.	Kissimmee
Patterson, Bernard T., 2 B Ad.	Dunnellon	Pratt, James L., Jr., 1 B Ad & L.	Miami
Patterson, Gorrell V., 2 B Ad.	Pensacola	Presnell, Hiatt B., 1 B Ad.	Winter Haven
Patterson, John G., 3 CE.	Dunnellon	Prevatt, Myron C., 2 L.	Jacksonville
Pattson, Ned A., 3 B Ad.	Apalachicola	Price, George A., 2 EE.	Jacksonville
Patton, Robert W., 2 L.	Tampa	Price, John H., 3 BAE.	Center Hill
		Price, John M., 1 BSAE.	Sopchoppy

<i>Name and Classification</i>	<i>Address</i>	<i>Name and Classification</i>	<i>Address</i>
Price, Joseph E., G.....	Gainesville	Rivers, Thomas H., 1 Yr Ag.....	Alachua
Priest, Clarence P., 5 BAE.....	Sanford	'Izk, Kaleel S., 2 EE.....	Jacksonville
Priest, Ernest G., Jr., 1 HPL.....	Doctors Inlet	Roadman, Dwight R., 1 B Ad.....	.....
Priester, H. F., II, 4 BAE.....	Lake Butler	.....	W. Palm Beach
Prince, Thomas C., G.....	Jacksonville	Robbins, Alex., 1 BS.....	Gainesville
Pritchard, George E., 2 EE.....	Plant City	Robbins, Ben., 2 PM.....	Jacksonville
Pritchard, Harold D., 1 B Ad.....	Plant City	Robbins, Leon H., 1 L.....	Gainesville
Prochaska, Ralph E., 2 EE.....	St. Petersburg	Robbins, Milton, 2 B Ad.....	St. Petersburg
Provenzano, Dominick S., 2 PM.....	Tampa	Robbins, William R., 3 B Ad.....	Miami
Prunty, John W., 2 L, 4 AB.....	Miami	Roberts, B. Marvis, 4 P.....	Trenton
Pryor, John F., 1 B Ad & L.....	Pensacola	Roberts, Elihu B., 1 Ag.....	Sarasota
Pulfrey, Charles W., 1 BS.....	Lynn Haven	Roberts, Emmett S., 1 B Ad & L.....	.....
Pullara, Joseph L., 1 PM.....	Tampa	.....	St. Petersburg
Purviance, Albert E., 1 PM.....	Clearwater	Roberts, George C., G.....	Weirsdale
Purvis, Roy L., 3 B Ad.....	Miami	Roberts, John A., 3 BS.....	Gainesville
Putnam, Howard L., G.....	Miami	Roberts, N. E., 2 HPL.....	Lake Butler
Quade, Edward S., G.....	Jacksonville	Roberts, Quintus I., 3 BAE.....	Palatka
Quade, W. O., 2 BS.....	Jacksonville	Roberts, Robert W., 1 BS.....	Jacksonville
Race, Austin T., 1 E.....	Winter Haven	Roberts, William F., 1 BAE.....	Lake Placid
Rader, A. M., 2 Ch E.....	Lakeland	Robertson, George T., 2 PL.....	Pensacola
Radin, Jeannette M., G.....	Lipsig, Poland	Robertson, W. D., 2 L.....	Milton
Ragan, George L., 1 BS.....	Sarasota	Robinson, Elwood R., 2 L.....	St. Petersburg
Raibl, Tony J., 2 PL.....	Cantonment	Robinson, James H., 2 HPL.....	Palmetto
Rains, Henry B., 5 PL.....	Guntersville	Robinson, Lewis W., Jr., 4 CE, Coral Gables	.....
Ramsey, James A., 4 BAE.....	Bristol	Robinson, Robert L., 1 B Ad.....	.....
Ramsey, Ralph J., 4 Ag.....	Gainesville	.....	So. Jacksonville
Rankin, Albert L., Jr., 1 L. W. Palm Beach	.....	Robuck, Ernest P., 3 B Ad.....	Ortega
Rath, Arthur T., 5 PM.....	Miami	Roche, Irving M., 3 BAE.....	Vernon
Raulerson, Charles L., 3 B Ad.....	Okeechobee	Roche, Marion C., 1 BAE.....	Vernon
Raulerson, Thomas S., 1 Ag.....	Lake Butler	Rochester, Morgan C., G.....	Salem
Rauzin, Moses, 2 PL.....	Miami Beach	Rockwell, Daniel T., 4 EE.....	Miami
Rawls, Marcus G., 1 BSE.....	Lake City	Rodgers, John B., 1 AB.....	Miami
Rayburn, Fred W., 2 BS.....	St. Augustine	Roe, W. Wesley, 4 Ag.....	Plant City
Raymond, John M., 3 CE.....	Jacksonville	Roesel, Tillie A., G.....	Bushnell
Reaves, Charles K., 2 PL.....	Tampa	Rogant, Henry P., 2 B Ad.....	Sanford
Reaves, Kelsie L., 1 E.....	Bartow	Rogero, Al L., 3 HPL.....	Orlando
Redd, Daniel W., 1 E.....	Tallahassee	Rogers, Albert P., 1 BS.....	Kissimmee
Reed, Alfred C., 4 BAE.....	Gainesville	Rogers, Charles B., 1 HPL.....	Jacksonville
Reeder, William R., 2 CE-1 L, Coconut Grove	.....	Rogers, Harry, 3 Ch E.....	Hastings
Register, Hal H., Jr., 2 J.....	Lakeland	Rogers, John T., 2 L.....	Gainesville
Rehbaum, William F., 1 J.....	Clearwater	Rogers, Lewis H., 4 Ch E.....	DeFuniak Spgs.
Reiber, Felix A., G.....	Jacksonville	Rogers, Mitchell C., 2 B Ad & L.....	.....
Reid, Gordon K., 2 PL.....	St. Petersburg	.....	St. Petersburg
Reid, John A., 5 A.....	Miami	Rogers, Rollin L., 3 J.....	Ft. Pierce
Reid, John B., 2 ME.....	Brooklyn, N. Y.	Rogers, Samuel G., 2 PM-2 BSE.....	Miami
Reif, Charles A., Jr., 2 B Ad & L, Wauchula	.....	Rollins, George E., Jr., 3 CE.....	Dunnellon
Rembert, Alfred S., 2 PM.....	Stuart	Romfh, George B., Jr., 3 AB.....	Miami
Renfro, Charles G., 1 P.....	Ft. Myers	Rooney, Hildon W., 2 AB.....	Wauchula
Renfro, Ray H., 2 CE.....	Ft. Myers	Roope, John L., 1 AB.....	St. Petersburg
Rentz, William C., 3 BS.....	Miami	Rose, Frank C., 3 B Ad.....	Miami
Resler, Richard E., 1 P.....	W. Palm Beach	Rose, John T., Jr., 2 L.....	Punta Gorda
Reuther, Walter, 3 BS.....	Seffner	Rosenberg, Mitchell M., 4 BAE.....	.....
Reynolds, Frank J., G.....	Citra	.....	Daytona Beach
Reynolds, Frederick R., 2 BSE, Pioneer, Ohio	.....	Rosenthal, Howard M., 1 L.....	St. Petersburg
Reynolds, Gerald H., 2 HPL.....	Gainesville	Ross, E. Thacker, 1 B Ad.....	So. Jacksonville
Reynolds, Norris L., 1 E.....	Jacksonville	Rosser, Harwood, Jr., 4 AB.....	Jacksonville
Reynolds, Porter G., 2 LD.....	Gainesville	Rossetter, Appleton T., 2 L.....	Eau Gallie
Rhodes, John K., 1 BS.....	Sarasota	Roth, Burnett, 3 B Ad, 1 L.....	Orlando
Rice, Owen II, G.....	Orlando	Roth, Edward S., 1 E.....	Miami
Richard, Melvin J., 1 L.....	Miami Beach	Roth, Henry D., 3 P.....	Gainesville
Richarde, Henry O., 2 B Ad.....	Tampa	Roth, Julius J., 2 B Ad.....	Lakeland
Richards, Joseph V., G.....	Gainesville	Rountree, James B., 2 BS.....	Leesburg
Richards, LeRoy F., 2 PM.....	Ellenton	Rountree, John E., 1 B Ad.....	Frostproof
Richards, Tom, 2 B Ad.....	Gainesville	Rousseau, J. Ford, 2 Ag.....	Boynton
Richardson, Edward K., 2 EE.....	Tampa	Rowe, Frank A., 2 HPL.....	Tarpon Spgs.
Richardson, Leitha J., 2 Ag.....	High Springs	Rowell, John O., G.....	Marion, S. C.
Richardson, William C., 1 PM.....	.....	Rubin, Raymond R., 2 Ag.....	Jacksonville
.....	Amsterdam, N. Y.	Ruff, Donald S., 3 B Ad.....	Merritt
Richbourg, William D., 2 PL.....	Pensacola	Ruff, Wallace M., 2 Ag.....	St. Petersburg
Rigby, William O., 4 BS.....	Coconut Grove	Russell, Carlos L., 4 B Ad.....	Miami
Rios, Policarpo G., G.....	Mayaguez, P. R.	Russell, Edward W., 2 ME.....	Pensacola
Rippey, Andrew D., 4 BS.....	Gainesville	Rybolt, Howard R., 3 EE.....	Orlando
Rippey, Wilson B., 1 HPL.....	Gainesville	Saba, John, Jr., 3 B Ad.....	Orlando
Risien, Raymond S., 4 B Ad.....	Jacksonville	Sabbag, John M., 1 E.....	Jacksonville

<i>Name and Classification</i>	<i>Address</i>	<i>Name and Classification</i>	<i>Address</i>
Sabourin, Edmund E., 1 E....	Crystal River	Shepard, John W., 2 P.....	Titusville
Sadler, Glendy G., 3 BS.....	Mt. Dora	Sheppard, Arthur H., 1 E-1 BS...	Key West
Saltz, Nathan J., 2 BS.....	Jacksonville	Sherard, Hoyt, G.....	Graham, Ala.
Sammons, Harold D., 4 B Ad.....	Tampa	Sherman, Harley B., G.....	Geneva, N. Y.
Sample, J. Wallace, 2 B Ad.....	Ft. Pierce	Sherrill, William C., 3 BS..	W. Palm Beach
Sanford, Robert M., 1 PM.....	Jacksonville	Shingledecker, Gerald E., 1 B Ad & L.....	Jacksonville
Sansbury, Walter E., G.....	W. Palm Beach	Shopiro, Joseph G., 3 L.....	Miami Beach
Sapp, Herbert P., 1 L.....	Panama City	Shouse, Arthur G., 1 BSE.....	High Springs
Sapp, Howard W., 2 PL.....	Panama City	Shulenberg, Hansell T., 1 B Ad.....	Jacksonville
Sarbacher, Robert L., 2 EE.....	Miami Beach	Shuler, Grover C., 1 BAE.....	Bristol
Sargent, Benjamin F., 5 Ag.....	Gainesville	Siefert, Philip M., 2 PL.....	Miami
Sark, Robert S., 1 PM.....	Pensacola	Sigman, Edmund B., 1 L.....	Lake Worth
Satcher, James W., 1 B Ad.....	Gainesville	Silsby, Lincoln W., 2 HPL.....	Coronado Beach
Satchwell, Thomas E., 2 Ch E.....	Jacksonville	Silverman, Orrin R., 1 E.....	Mulberry
Sauers, Harry L., 2 B Ad.....	St. Petersburg	Silverman, Peter, 2 B Ad & L.....	Miami
Sauls, Charles E., 3 HPL.....	Tallahassee	Silverstein, Jerome D., 1 PL.....	Manhattan, N. Y.
Sauls, Oretus E., Jr., 1 E.....	Tampa	Simmons, Bradford D., 2 A.....	Frostproof
Saunders, Walter N., 1 B Ad.....	Tampa	Simmons, Dibrell James, 1 PM.....	Arcadia
Saussy, Clement F., 3 B Ad & L.....	Jacksonville	Simmons, Edgar A., 2 B Ad.....	Century
Savage, Francis C., 4 Ch E.....	Eustis	Simmons, G. Ballard, G.....	Gainesville
Savage, Merle M., 1 Ag.....	Eustis	Simmons, Hugh C., 1 PL.....	Archer
Savage, Zach., G.....	Gainesville	Simmons, Paul N., 3 Ag.....	Plant City
Sawyer, Nelson G., 2 BAE.....	Jacksonville	Simmons, Russell, 1 BAE.....	Warsaw
Sawyer, William L., G.....	Decatur, Ill.	Simmons, William G., 3 BS.....	Miami
Scaglione, Peter C., G.....	Gainesville	Simmons, William P., Jr., 1 L.....	Jacksonville
Schauberger, Goldie W., 2 B Ad.....	Punta Gorda	Simms, Walter C., 1 E.....	Miami
Schirard, Charles B., 3 B Ad.....	Sanford	Simpson, D. S., 2 Ag.....	Mt. Dora
Schirard, John R., 5 B Ad.....	Sanford	Simpson, Maurice C., 2 B Ad, St. Petersburg	St. Petersburg
Schirmer, Ernest E., 1 L.....	Crystal River	Sims, David H., 1 E.....	St. Petersburg
Schoenborn, Robert M., 4 Ch E.....	Tampa	Sims, John C., 1 E.....	Marianna
Schuh, Edward H., 3 BS.....	St. Petersburg	Sims, John H., Jr., 1 PM.....	Jacksonville
Schultz, Walter B., 1 A.....	Winter Park	Sims, William H., 4 EE.....	Fernandina
Schuman, John C., 1 HPL.....	Jacksonville	Sinclair, Carson F., 3 L.....	Winter Haven
Schwab, Walter H., 4 B Ad.....	Miami	Sinclair, Henry M., 3 L.....	Winter Haven
Schwartz, Ben, 2 B Ad.....	St. Petersburg	Singleton, George L., 2 L.....	Kissimmee
Schwartz, Harold C., 2 L.....	Jacksonville	Singleton, Frederick G., 2 BS.....	Ft. Meade
Schwartz, Jay, 1 B Ad.....	St. Petersburg	Sinquefeld, James R., 3 B Ad.....	Gainesville
Schwartz, Simon, 1 BSE.....	Tampa	Skaggs, Kenneth G., 4 AB.....	Sarasota
Schwarzkopf, Ludwig, 1 L.....	Miami Beach	Skean, Gordon A., 2 J.....	Gainesville
Schweitzer, Edward O., 4 Ag.....	Miami	Skipper, Jack, 1 B Ad.....	Sebring
Scott, Donald J., 1 HPL.....	Clearwater	Skipper, Joe K., 3 L.....	Jacksonville
Scott, Otley W., 1 BS.....	Wellborn	Slaphey, Henry W., 1 B Ad.....	Havana
Scott, Tommie L., 1 Ag.....	Trenton	Slaughter, Fred W., 4 B Ad.....	Palmetto
Seasted, Harold F., 4 B Ad.....	Jacksonville	Slayton, William T., 1 B Ad.....	Miami
Seay, Homer H., Jr., 3 B Ad.....	Miami	Slott, Morris M., 2 BS.....	Ocala
Sechler, Harvey C., 2 HPL.....	Zephyrhills	Small, Arthur P., 3 B Ad.....	Jacksonville
Segal, Martin, 1 B Ad & L.....	Orlando	Smith, Charles A., 3 BAE.....	Reddick
Selle, Paul T., 4 B Ad.....	Gainesville	Smith, Charles B., 3 BSE.....	Ft. Pierce
Sellers, Calern C., 1 PM.....	Tallahassee	Smith, David R., 1 B Ad & L.....	Reddick
Sellers, William E., 1 B Ad.....	Tampa	Smith, Dean A., 1 B Ad.....	Tampa
Senner, Chester M., 1 Ag.....	Tampa	Smith, Dwight C., 1 L.....	W. Palm Beach
Settle, Lucy B., G.....	Gainesville	Smith, Everett L., 1 B Ad.....	Micanopy
Setzer, Bill A., 1 Ag.....	Tampa	Smith, George H., 5 B Ad.....	Gainesville
Shackleford, James W., 3 EE.....	Gainesville	Smith, George R., 2 PM.....	Jacksonville
Shad, Thomas H., 2 PL.....	Jacksonville	Smith, Gerald, 4 BAE.....	Wilmington, Ohio
Shaddick, William T., 2 LD.....	Lady Lake	Smith, Helman, G.....	Jacksonville
Shafer, Paul L., 4 B Ad.....	Jacksonville	Smith, James M., Jr., 3 L.....	Reddick
Shaffer, Walter W., 3 Ag.....	Winter Park	Smith, Joseph B., Jr., 3 EE.....	Tampa
Shahinian, Manoug H., G.....	Gainesville	Smith, Joseph G., G.....	Plant City
Shands, James S., Jr., 3 AB.....	Jacksonville	Smith, Jerome M., 1 B Ad.....	Plant City
Shapiro, Sam W., 2 PL.....	Ft. Lauderdale	Smith, Kenneth H., 4 PL.....	Lakeland
Sharman, Fred B., 2 PM.....	Miami	Smith, Lester, 3 AB.....	Tarpon Springs
Sharp, Charles F., 1 B Ad.....	Miami	Smith, Lucius N., 1 PM.....	Marianna
Shave, Thomas J., 2 PL.....	Fernandina	Smith, Luell L., 3 B Ad.....	Dunnellon
Shaw, Charles R., 1 A.....	Quincy	Smith, Marshall E., 4 BS.....	Tampa
Shaw, Hubert D., G.....	Colson	Smith, Nedam E., 2 B Ad.....	Gainesville
Shaw, LeRoy, 2 B Ad.....	DeFuniak Spgs.	Smith, Otis E., 3 Ag.....	Bradenton
Shaw, Sam H., 1 Ag.....	Ft. Lauderdale	Smith, Platt T., 4 B Ad.....	Mulberry
Shearer, Welcome H., 1 B Ad.....	Jacksonville	Smith, Rhett A., 1 BS.....	Sanford
Sheftall, LeeRoy, Jr., 2 B Ad.....	Jacksonville	Smith, Simeon A., 1 PM.....	Madison
Sheldon, Harold A., 1 P.....	Tampa	Smith, Stephen P., 2 B Ad.....	Jacksonville
Shepard, Charles E., Jr., 3 Ag.....	Gainesville		
Shepard, Clyde R., 4 Ag.....	Gainesville		

Name and Classification Address

Smith, Thomas E., 4 BAE.... Panama City
 Smith, Thomas J., 3 B Ad.... Miami
 Smith, W. J., 4 B Ad.... Winter Haven
 Smyth, Horace G., 1 PM, Washington, D. C.
 Smoyer, Howard W., 2 Ch E.... St. Petersburg
 Sneed, William F., 1 BS.... Lakeland
 Snow, Perry F., 1 AB.... Ft. Lauderdale
 Soar, W. Stanton, 4 AB.... Miami
 Sobol, Hyman B., 2 L.... Gainesville
 Southwell, John L., 1 BSE.... Blountstown
 Sparkman, Heyward A., 2 Ag.... Plant City
 Sparks, Chiles E., G.... Ashland
 Sparks, Gerald C., Jr., 1 P.... Hialeah
 Spear, Mercer P., 1 L.... Apalachicola
 Spencer, Allen W., 3 P.... Sarasota
 Spencer, Herbert E., 3 B Ad.... Gainesville
 Spencer, Holmes S., 1 B Ad.... Jacksonville
 Spencer, William C., 1 PM.... Tampa
 Spurling, Julius S., 1 PM.... Miami
 Spicola, G. C., Jr., 3 B Ad.... Tampa
 Spiers, William H., 2 BSE.... Orlando
 Spitz, Charles H., 3 AB.... Trenton
 Spruill, John A., Jr., 1 AB.... Gainesville
 Spurlock, Alvin H., G.... Milton
 Stallings, Charles N., 1 PL.... Tampa
 Stansfield, Charles A., 4 BAE.... Wauchula
 Stanwix-Hay, Allen T., 3 EE.... Jacksonville
 Stapleton, John L., 2 BAE.... Greenwood
 Starbird, Sherwood F., 2 Ag.... Apopka
 Starbuck, Hal F., 1 B Ad.... Tampa
 Stark, William D., Jr., 1 B Ad.... Miami
 Stearns, Charles R., 1 Ag.... Leesburg
 Stearns, Thomas W., 2 BS.... Leesburg
 Steed, Arthur L., 1 L.... Kissimmee
 Steele, George J., 1 B Ad.... Jacksonville
 Steele, James H., Jr., 4 B Ad.... Tampa
 Stembler, John H., 1 BS.... Coral Gables
 Stephens, Willis L., 3 A.... Jacksonville
 Stevens, Andrew J., 2 BAE.... Marianna
 Stevens, Billie K., 2 HPI.... Marianna
 Stevens, Robert P., 2 J.... Ellenton
 Stevens, Thomas E., 3 EE.... Gainesville
 Stewart, Harry W., Jr., 3 L.... Jacksonville
 Stewart, Hugh H., 3 BSE.... LaBelle
 Stewart, John S., 1 E.... LaBelle
 Stewart, Robert W., 4 Ag.... Leesburg
 Stewart, Vincent E., 2 BS.... St. Petersburg
 Stillman, Sidney, 1 PM.... Jacksonville
 Stimson, John H., 2 EE.... Lake Worth
 Stirling, Walter W., 1 Ag.... Ft. Lauderdale
 Stock, Joseph C., G.... Interlachen
 Stockfish, Raymond H., 2 A.... Hollywood
 Stockstill, Dale P., 1 AB.... Sarasota
 Stokes, George H., 1 BAE.... Callahan
 Stokes, John P., Jr., 3 L.... Miami
 Stollman, John, 2 B Ad.... Brooksville
 Stolz, Charles E., 1 HPI.... Pensacola
 Stone, Leo K., 3 BS.... Pierson
 Stonebraker, John G., 1 PM.... Arcadia
 Stoun, Meyer J., 3 B Ad.... Tampa
 Stovall, Rollo P., 1 B Ad.... Miami
 Stovall, William W., 2 B Ad.... Palm Beach
 Strayhorn, Norwood R., 1 L.... Ft. Myers
 Stowers, Joseph M., 4 BAE.... Waldo
 Strickland, H. Winton, 2 HPI.... Tallahassee
 Strickland, Virgil E., 1 BSE.... Tallahassee
 Strickler, Ira W., 4 B Ad.... Miami
 Strickler, William J., 2 BS.... Miami
 Stringer, Carl L., 1 E.... Alachua
 Strohaker, Harry W., 1 E.... Lakeland
 Stroman, Watts B., 2 Ag.... Orangeburg, S. C.
 Struss, Lawrence S., 2 B Ad.... Tampa
 Stuart, Eugene D., 1 E.... Tampa
 Stubbs, George W., 2 AB.... Anthony

Name and Classification Address

Stumph, Richard M., 5 Ag.... Jacksonville
 Sturges, Wilton, Jr., 4 AB.... Ft. Lauderdale
 Sturm, G. W., 3 L.... Sarasota
 Sugarman, Sam J., 1 B Ad & L, Lynn, Mass.
 Sullivan, Charles C., 2 J.... Jacksonville
 Summers, Adolphus E., 3 L.... Alachua
 Sundry, Edward A., 1 BS.... Delray Beach
 Sutterlin, Frederick J., 1 B Ad & E....
 Miami Springs
 Sutterlin, Frank W., 1 BS.... Miami Springs
 Sutton, Richard D., 2 B Ad & L, Jacksonville
 Sutton, William H., 1 PM.... Jacksonville
 Svihra, Charles H., 1 B Ad.... Brooksville
 Swaine, Jack R., 4 Ch E.... Pensacola
 Swann, Donald M., 2 J.... Jacksonville
 Swanson, Daniel C., G.... Gainesville
 Sweat, George C., 1 BAE.... Live Oak
 Sweat, Thomas W., G.... Hawthorn
 Sweeney, James L., 2 ME.... Pensacola
 Sweeting, William I., 1 B Ad.... Miami Beach
 Swindell, Park T., 1 E.... Lakeland
 Symes, Roy F., 1 B Ad.... Sanford
 Tally, Emmett M., Jr., 2 AB.... Tavares
 Tannenbaum, Harold S., 1 B Ad & L, Miami
 Tashoff, Ronald, 5 P.... Gainesville
 Tatham, Thomas L., 2 Ch E.... Miami
 Taylor, Andrian L., 1 BS.... Mayo
 Taylor, Carney H., 3 B Ad.... Plant City
 Taylor, David L., 1 A.... Ft. Pierce
 Taylor, Frank, Jr., 1 E.... Jacksonville
 Taylor, Harold T., 1 BS.... Daytona Beach
 Taylor, Henry H., 2 PL.... Miami
 Taylor, James F., 1 B Ad.... Tampa
 Taylor, Seiss N., 1 HPI, Franklin Spgs., Ga.
 Taylor, Walter B., 1 B Ad, W. Palm Beach
 Tchakarian, Hagop H., 5 E.... Coral Gables
 Tedder, Paul M., 4 EE.... Gainesville
 Telford, John D., 2 AB.... Miami
 Templeton, Fred, 5 ME.... St. Petersburg
 Terry, Carroll B., 4 BAE.... Ocoee
 Terry, Charles E., Jr., 3 BSE.... Miami
 Thames, George W., 2 L.... Jacksonville
 Thomas, Clifford B., 2 B Ad.... Clearwater
 Thomas, Gustav A., 5 BS.... Caldwell, N. J.
 Thomas, John W., 4 P.... High Springs
 Thomas, Monroe C., 1 PM.... Palmetto
 Thomas, Napoleon B., 1 Ag.... Wauchula
 Thomas, Tyre S., 3 BAE.... Lake Butler
 Thompson, Arthur R., Jr., 3 L....
 St. Petersburg
 Thompson, Cameron, 1 J-2 BAE, Tallahassee
 Thompson, Edwin P., 1 B Ad.... Lakeland
 Thompson, Harry B., 2 EE.... Tampa
 Thompson, John C., 5 Ag.... Miami
 Thompson, Kenneth, 1 E.... Palm Beach
 Thompson, Robert A., 4 ME.... Miami
 Thompson, Robert S., 2 AB.... Tampa
 Thornton, William B., 1 B Ad.... Ortega
 Thronson, Silas M., G.... Houston, Minn.
 Tiller, Howard B., 1 PM.... Chipley
 Tillis, Rudolph E., 2 B Ad.... Clearwater
 Tod, Carrel I., 5 Ag.... Orlando
 Todd, Robert H., 2 ME.... St. Petersburg
 Toffaletti, Louis J., 3 B Ad.... Ocala
 Toland, John M., 3 B Ad.... Tampa
 Tolbert, Benjamin A., G.... Gainesville
 Tomlinson, John P., 1 B Ad.... Madison
 Tomlinson, Laurence W., 3 L.... Lake Wales
 Toole, Mike H., 3 P.... Cottondale
 Tootle, C. Edwin, 2 EE.... Okeechobee
 Toth, Gov W., 2 BSE.... Tampa
 Toribio, Leopold M., 1 E.... Tampa
 Towner, John B., G.... Homestead
 Towles, Alton M., 3 L.... Crawfordville

Name and Classification	Address	Name and Classification	Address
Townsend, Austin F., 2 Ag.	Bell	Walker, Charles H., 4 B Ad.	Pensacola
Traer, William M., 2 J.	Jacksonville	Walker, Claudius, 3 BS.	Coconut Grove
Trafficante, Frank C., 1 PM.	Tampa	Walker, Ralph J., 3 BS.	Canton, Ohio
Trapnell, Carl F., 5 B Ad.	Plant City	Walker, Robert Ellsworth, 4 EE-5 BSE	Whitney
Trapnell, Robert N., 2 B Ad.	Ozona	Walker, Thomas B., 3 B Ad.	Miami
Trapnell, W. Harold, 2 B Ad.	Ozona	Walker, Victor H., 3 B Ad.	Miami
Treadgold, Robert J., 2 B Ad.	W. Palm Beach	Walrath, Frank M., 1 PM, Keystone Heights	
Treadwell, Willard V., 1 PM.	Arcadia	Walrath, Laurence K., 1 L.	Gainesville
Trice, Andrew J., 1 Ag.	Tampa	Walsh, Stephen E., 4 HPL.	Hartford, Conn.
Trice, Robert W., 1 B Ad & E.	Tampa	Walsingham, Jack L., 2 PL.	Tampa
Trice, Stephen E., 1 B Ad.	Tampa	Walter, Frank, 1 B Ad.	Daytona Beach
Trice, William W., Jr., 3 BS.	Tampa	Walters, Paris N., 5 Ag.	Nottingham, Pa.
Trieste, Charles W., 3 EE.	Gainesville	Walters, Velton, 5 HPL.	Holopaw
Troxler, Charles E., 1 B Ad.	Ocala	Waltón, F. R., 3 A.	Daytona
Troxler, John W., 1 B Ad.	Ocala	Walton, William M., 1 L.	Pompano
Troxler, Lanas F., 2 PL.	Ocala	Wand, Richard B., 1 B Ad.	Jacksonville
Tubbs, William G., Jr., 1 E-1 B Ad & L	Melbourne	Wang, Eugene, 1 PM.	Brooklyn, N. Y.
Tubbs, Willam R., 1 AB.	Orlando	Wang, Jere Frederick, 1 BS.	Dade City
Tucker, Ben R., 2 Ag.	Safety Harbor	Wann, John L., G.	Silverwood
Tully, Albert P., 4 HPL.	Tallahassee	Wansker, Harry, 1 B Ad.	Jacksonville
Tully, Emerson G., 1 BAE.	Tallahassee	Ward, Charles W., 1 E.	Ft. Myers
Turlineton, Francis W., 1 B Ad.	Gainesville	Ward, Earl G., 2 ME.	Winter Park
Turner, August L., 1 B Ad.	Miami	Warde, John S., 2 Ag.	Orlando
Turner, Francis E. S., 4 BAE, St. Petersburg		Waring, Charles W., 4 EE.	Tampa
Turner, Jesse L., 4 HPL.	So. Jacksonville	Waring, S. B., 2 EE.	Tampa
Turner, L. Frank, 2 Ag.	DeFuniak Spgs.	Warner, Robert C., 1 HPL.	Orlando
Turner, Wilbur H., 2 CE.	Lecanto	Warnock, Harry C., 4 B Ad.	Jacksonville
Turrill, Robert F., 2 B Ad.	Miami	Warren, Edmund B., 1 P.	Newberry
Tutt, Irving S., 1 HPL.	Marblehead, Mass.	Warren, George A., 1 PM.	Key West
Twitcheell, Donald A., 1 BSE.	Orlando	Warren, Howard A., 1 E.	Ft. Pierce
Tylander, Raymond C., 1 E.	Ft. Pierce	Warren, Jesse F., 1 BS.	Apalachicola
Tyler, David L., 1 E.	St. Petersburg	Warren, Julian, 1 BAE.	Gainesville
Tyler, Neal F., Jr., 1 L.	Jacksonville	Warren, Kenneth W., 2 BS.	Perry
Tyndall, Guy C., 1 Yr Ag.	St. Cloud	Wasmund, John F., 2 Ag.	Winter Haven
Tyrrrell, Alvin F., 2 A.	Jacksonville	Watkins, John V., G.	Gainesville
Tyson, Frederick W., Jr., 1 PM, Hawthorn		Watkins, Marshall O., 1 Ag-1 AB.	Knights
Underhill, Marion R., 4 B Ad.	Barberville	Watson, Clark D., 2 CE.	Interlachen
Underwood, Robert F., 1 L.	Miami	Watson, Jack, 4 A.	Miami
Unkrich, Robert C., 4 B Ad, Daytona Beach		Watson, James F., 5 BAE.	Milton
Urann, Arthur E., 1 L.	Sullivon, Maine	Watt, Gerty, 1 B Ad & L.	Hollywood
Van Antwerp, Kenneth A., 2 ME.	Tampa	Watters, Vernon G., 1 PM.	DeSoto City
Van Arsdall, Howard E., 2 Ag.	Winter Haven	Watts, Frank E., 5 BAE.	Daytona Beach
Van Brunt, William E., 1 AB.	Tallahassee	Watts, John D., 3 AB.	W. Palm Beach
Van Brunt, Will O., 3 BS.	Tallahassee	Weaver, Alvin C., 1 J.	Bristol
Vanderipe, Henry R., 1 Ag.	Bradenton	Webb, Herbert D., 1 BSE.	Lakeland
Van Landingham, Herbert C., 3 B Ad	W. Palm Beach	Webb, Herbert M., 3 BS.	Gainesville
Van Orden, Herbert J., 1 BS.	Tampa	Webb, Thomas R., G.	Winter Garden
Vassie, J. E., Jr., 3 Ch E.	Mulberry	Webb, William P., 2 AB.	Lakeland
Vaughan, Harold E., 4 B Ad.	Gainesville	Webster, Eugene H., 1 E.	Miami
Vaughn, John S., 1 PM-1 P.	High Springs	Webster, Harvey W., 1 E.	Birmingham, Ala.
Vaughn, Paul H., 1 PM.	Winter Haven	Weeber, Armin J., 1 B Ad.	Chicago, Ill.
Veen, J. Robert, 3 BS.	Palmetto	Weed, Robert P., 3 L.	Corbin, Ky.
Verkauf, Oscar, 2 PM.	Tampa	Weeks, Howell T., 2 PM.	Trenton
Verri, Joe P., 3 B Ad.	Tampa	Weeks, Marvin, 1 BS.	Tampa
Vestal, Earle M., 1 BAE.	Jacksonville	Weeks, W. T., 3 HPL.	Gainesville
Vincent, Wirt J., 4 EE.	Lecanto	Weil, Nathan, 1 PM.	Jacksonville
Voigt, William W., 1 AB.	St. Petersburg	Weinberg, Abraham, 2 PM.	Miami
Von Dohlen, Henry W., Jr., 1 E.	Jacksonville	Weinberg, Sydney J., 1 B Ad.	Sanford
Wagg, Alfred, 2 B Ad & L.	Palm Beach	Weinstein, Julian J., 4 BS.	St. Augustine
Wagner, Chancellor P., 1 B Ad.	Newark, N. J.	Weinstein, Natalie M., 2 L.	St. Augustine
Wahl, Harold B., 3 L.	Orlando	Weintraub, Mortimer B., 1 PM.	Miami
Wahl, John H., Jr., 2 L.	Orlando	Weisner, John T., 3 HPL.	Waldo
Wahlberg, J. F., 4 BSE.	Orlando	Weiss, Shapiro S., 2 L.	St. Petersburg
Wainwright, James R., 1 PL-1 Ag.	Starke	Welch, Columbus F., 1 BSMA.	Marianna
Wakefield, George N., G.	Homestead	Weld, Benjamin R., G.	Keystone Heights
Wakefield, Homer E., 1 PM.	Holly Hill	Welles, Benjamin F., 4 B Ad.	Arcadia
Wakefield, John W., 4 CE.	Apalachicola	Wells, Franklin D., 2 BAE.	Plant City
Walcutt, William C., 5 ME.	St. Augustine	Wells, Sidney W., 4 Ag.	Florence Villa
Waldron, Jesse C., 4 BSAE.	Chieffland	Wentworth, George P., 3 AB-1 L.	Pensacola
		Wertheimer, Jack D., 2 AB.	Palm Beach
		Wesley, Arthur A., 1 BAE.	Pt. Washington
		Wesley, Edgar P., 1 BAE.	Pt. Washington
		West, James W., 1 L.	Bushnell

<i>Name and Classification</i>	<i>Address</i>	<i>Name and Classification</i>	<i>Address</i>
Westbury, Harry E., 4 BSE.....	Gainesville	Wimer, Charles A., 5 B Ad & E.	Jacksonville
Wetherington, Tullie S., G.....	Williston	Wind, Andrew E., 2 B Ad.....	Sarasota
Whaley, Marion S., 1 E.....	Rockledge	Windham, Edward F., 1 B Ad.....	Tampa
Wheeler, James A., 2 ME.....	Tampa	Wingate, Homer D., 5 B Ad.....	McIntosh
Whichard, Henry W., 1 J.....	Norfolk, Va.	Winters, A. E., 2 BS.....	St. Petersburg
Whilden, John W., 2 B Ad & L.....	Homosassa	Wishart, Edna W., 5 A.....	Tampa
Whitcomb, Charles F., 2 ME.....	Umatilla	Wishart, James F., 5 B Ad.....	Gainesville
White, John R., 2 B Ad & L.....	Jacksonville	Withrow, Harry C., 1 B Ad.....	Bradenton
White, Kenneth P., 1 B Ad.....	Jacksonville	Witt, Alton C., 1 BAE.....	Fort White
White, William L., 2 B Ad.....	Miami	Witt, Frederick K., 2 BAE.....	Lake City
Whitener, Robert C., 2 B Ad.....	Williston	Wittenstein, Joseph, 1 Ag.....	Orlando
Whiteside, Thurman A., 1 L.....	Miami	Witters, R. Gordon, 2 EE.....	Coral Gables
Whitfield, Gharod, 3 Ag.....	Bell	Wiygul, Roland B., 2 B Ad.....	Winter Garden
Whitfield, William K., 1 L.....	Tallahassee	Wolcott, John L., G.....	Orlando
Whitlock, William E., 2 BS.....	High Springs	Wolf, Samuel J., 1 PM.....	W. Palm Beach
Whitmarsh, Raymond D., 1 A.....	DeLand	Wolfe, James C., 5 Ag.....	Howey
Whittaker, Heskin A., 3 B Ad & L.....	Jacksonville	Wolfe, Jasper J., 5 Ag.....	Howey
Whitton, Frank C., 1 L, 4 BAE.....	Plant City	Wolfe, Lyndsay C., 1 E.....	Clermont
Wiersteinder, Richard A., 2 PL.....	St. Petersburg	Wolff, George R., G.....	Orlando
Wiese, Oliver F., 3 AB.....	Tampa	Wolfson, Jack D., 1 B Ad.....	Lakeland
Wiggert, Dohren W., 5 CE.....	Gainesville	Womack, M. Kenan, 1 BS.....	Havana
Wiggins, Paul M., 1 B Ad & L.....	Tampa	Womble, Donald R., 5 B Ad.....	Center Hill
Wigginton, John T., 3 L.....	W. Palm Beach	Wood, Delmont E., 2 ME.....	Panama City
Wilcox, Charles A., 1 Ag.....	Clearwater	Wood, Fred W., 3 Ag.....	Evinston
Wildner, Lesley, 2 B Ad & L.....	Tampa	Wood, George O., 2 B Ad.....	Campbellville, Ky.
Wilensky, Joseph S., 1 E.....	Jacksonville	Wood, Louis T., 1 HPI.....	Clearwater
Wilkes, John F., 3 Ch E.....	Jacksonville	Wood, Melville C., 1 E.....	Sag Harbor, N. Y.
Wilkins, Colbert W., 4 Ch E.....	Hawthorn	Wood, Oresta, 3 BSE.....	Baker
Wilkinson, Carrol W., 4 BSE.....	Hastings	Wood, Richard L., 1 HPI.....	Bartow
Wilkinson, Robert W., 4 BSE.....	Jasper	Woodruff, Fay C., 5 AB-5 B Ad.	Geneva, N. Y.
Willard, Theodore H., 2 Ag.....	Alachua	Woods, James P., 4 BAE-2 L.....	Perry
Willecoxon, Ernest L., 1 Pg.....	Arcadia	Woodward, Walter H., 1 L.....	Marianna
Williams, Abner D., 1 B Ad & L.....	Crystal River	Woolery, William S., 1 B Ad & E.....	Jacksonville
Williams, Broward, 1 E.....	Ocala	Woolslair, John K., 2 L.....	Fort Myers
Williams, C. M., G.....	Baxley, Ga.	Woolwine, Vernon V., 2 EE.....	Palatka
Williams, David E., 2 J.....	Hawthorn	Wooten, Robert B., G.....	Lewis Turnout, S. C.
Williams, Donald G., 2 PM.....	Tampa	Wooten, Silas I., 1 PL.....	Brewster
Williams, Donald K., 3 B Ad.....	Tampa	Workizer, John C. W., 4 BAE.	St. Petersburg
Williams, Edwin L., G.....	Ft. Meade	Worley, Robert M., 2 Pg.....	Gainesville
Williams, Gordon L., 4 CE.....	Jupiter	Worth, F. J., 1 B Ad.....	So. Jacksonville
Williams, Guy V., 3 AB.....	Miami	Wotitzky, Leo, 3 BSE.....	Punta Gorda
Williams, Harold C., 1 PM.....	Dunnellon	Wright, James D., 1 Ag.....	Alturas
Williams, Hayward A., 1 A.....	Gainesville	Wright, Thomas C., 2 B Ad.....	Jacksonville
Williams, James E., 2 B Ad.....	Davenport	Wright, William T., 1 PL.....	Miami
Williams, John C., 1 AB.....	Lakeland	Wulf, Robert F., 4 BS.....	Gainesville
Williams, John D., 1 E.....	Ocala	Wurm, Leon, 1 PL.....	Jacksonville
Williams, Neil K., 1 Ag.....	Jupiter	Wynn, Walter P., 3 BS.....	Laurel Hill
Williams, Nolan D., 2 BAE.....	Bonifay	Yancey, Charles B., 2 L.....	Umatilla
Williams, Reginald L., 1 L.....	Tampa	Yarbrough, Curtis F., 2 L.....	Gainesville
Williams, Thomas H., 3 L.....	Lake City	Yarnall, William D., 3 HPI.....	Winter Park
Williams, Thomas S., 1 BS.....	Starke	Yates, Chester R., 4 BAE.....	Plant City
Williamson, Charles C., 2 B Ad.....	Tampa	Yaun, Frank D., 2 Ag.....	Penney Farms
Williamson, Henry E., 2 HPI.....	Tallahassee	Yeager, William J., 2 B Ad.....	Tampa
Williamson, Jerry D., 3 B Ad.....	Tallahassee	Yeats, Victor B., 2 B Ad.....	Tampa
Willits, Ralph C., 3 CE.....	Stuart	Yedvob, Reuben C., 3 BSE.....	Meriden, Conn.
Wilmot, Royal J., G.....	Loughman	York, D. B., 1 PM.....	Tampa
Wilson, Alfred E., 5 ME-1 AB.....	Tampa	York, John B., 1 BS.....	Arcadia
Wilson, Claude L., 1 BSAE.....	Madison	York, M. A., 2 BAE.....	Lake Placid
Wilson, Clyde H., 1 L.....	Sarasota	Young, Douglas M., 1 A.....	Jacksonville
Wilson, Delmar G., 1 AB.....	Tampa	Young, John W., 2 AB.....	Palm Beach
Wilson, Glenn C., 1 B Ad & L.....	Orlando	Young, Paul W., 1 P.....	Narcossee
Wilson, Henry Y., G.....	Urichsville, Ohio	Young, Rogers, W., G.....	Tallahassee
Wilson, John W., G.....	Sanford	Yunes, Raphael, 1 PM.....	Miami Beach
Wilson, Millard F., 2 BAE.....	Jacksonville	Zimmerman, Mike G., 1 E-1 BAE.....	Anthony
Wilson, Reaves A., 2 ME.....	Sarasota	Zimmerman, Paul A., 4 BS.....	Miami
Wilson, Wesley W., 2 PM.....	Tampa	Zorian, John J., 1 E.....	Orlando

STUDENT ROLL

SUMMER SESSION, 1932

The Colleges in which the students are enrolled are indicated by the following abbreviations:

Agriculture—Ag; Architecture and Allied Arts—A; Arts and Sciences—A & S; Commerce and Journalism—C & J; Education—Ed; Engineering—Eng; Graduate—G; Law—L; Pharmacy—P.

<i>Name and Classification</i>	<i>Address</i>	<i>Name and Classification</i>	<i>Address</i>
Abbott, Beulah W., G	St. Petersburg	Baker, Mrs. Mary Robertson, (W.L.)	Ed
Abbott, Richard Edward A & S,	Gainesville		Tallahassee
Abram, Pearl Hannah, Ed	Gainesville	Baker, Roxie, G.	Tampa
Acosta, Pedro, F., Ed	Cuba	Baker, Mrs. Willie Chamberlin, (H.L.)	Ed
Adams, Clarice L., Ed	Trenton		Hawthorn
Adamson, Annie Mae, Ed	Day	Balkom, Jeanne Ina, Ed	Bay Harbor
Adkins, Dorothy Corinne, Ed	Hawthorn	Barcham, Irene Florence, Ed	Augusta, Ga.
Adkins, Hazel, Ed	Starke	Barlar, Mrs. Ella, Ed	High Springs
Aikin, Alyson L., Ed	Jacksonville	Barnes, Ruth, Ed	Tampa
Akerman, William Y., A & S	Orlando	Barnett, Lucian P., Ed	Tarpon Springs
Albertson, Lottie Mae, Ed	Weirsdale	Barnett, Margaret, Ed	Hawthorn
Albury, Charles C., Ed	Islamorada	Barnhill, William B., Ed	Baker
Alderman, John Daniel, C & J,	Jacksonville	Barrette, Edna Marie, Ed	Clearwater
Alexander, Mildred Inez, Ed	Orlando	Barrow, Tom Lee, C&J	DeSoto City
Alison, John Richardson, Eng	Gainesville	Barchell, Frederick Herbert, G.	Avon Park
Allen, Alberta, Ed	Lecanto	Barton, Thomas Bryan, C&J	Orlando
Allen, Dan George, C&J	Tampa	Bass, Clayton Claude, L.	Live Oak
Allen, Vivienne Grace, G.	Miami	Bass, Clyde, Ag	Live Oak
Alonso, Eva Melbourne, Ed	Gainesville	Bass, Nettie Mae, Ed	Live Oak
Altman, Mrs. Carrie R., (R.D.), Ed	Ed	Batey, Marguerite Aline, A&S	Gainesville
	Vauchula	Baxley, Virginia, A&S	Gainesville
Altman, Lenore, Ed	Sopchoppy	Baxter, Francis Shelton, Ed	Gainesville
Altman, Robert Davis, Ed	Vauchula	Bazemore, Mrs. Ruth Edwards, (O.S.)	Ed
Amason, Horace Holton, Ed	Cedar Key		Plant City
Anchors, Lorraine Mildred, Ed	Niceville	Beach, Richard Howard, Ed	Daytona Beach
Andersen, Hans Olaf, Ed	Pierson	Beadle, Melissa Louise, G.	DeLand
Anderson, Angela, A&S	Gainesville	Beard, Mrs. Merta E., (A.G.)	Ed
Anderson, Clara Elna, Ed	Green Cove Spgs.		St. Petersburg
Anderson, George W., A&S	Gainesville	Beardsley, Belle Sperry, Ed	Ed
Anderson, Jane Sullivan, A&S	Gainesville		New Preston, Conn.
Anderson, Mary Lou, A&S	Monticello	Beatty, Maxine Lavan, Ed	Pensacola
Anderson, Wallace B., C&J	Tampa	Beauchamp, Ottis Woodrow, Ed	Trenton
Andrews, Sara Louise, A&S	Fort White	Beck, Dow Gary, G.	Ocala
Andrews, Byron Knight, Ed	Ed	Beckham, Mrs. Laura Melton, (J.A.)	Ed
	Green Cove Springs		Jacksonville
Andrews, Louise, Ed	Lake Butler	Begg, Rose Gradick, Ed	Jacksonville
Applegate, Frederick Wilkinson, L.	Ed	Bellerby, Mrs. Katharine Charles, Ed	Ed
	St. Petersburg		St. Petersburg
Archibald, Robert Burns, L.	Jacksonville	Bellinger, Beauford, A&S	Tampa
Argo, Mary Emma, Ed	Ocoee	Bennett, Elsie Marie, Ed	Port Orange
Armstrong, Leo H., Ed	Manatee	Bennett, Mrs. Kathryn R., (J.A.), Ed	Miami
Arnold, Elva, G.	Groveland	Bennett, Majorie Alice, Ed	Ocoee
Arnold, John I., G.	Groveland	Benson, Mrs. Bess Hill, (Y.R.), Ed	Bunnell
Arnold, Lourie James, G.	Lake City	Benson, George Royal, Ed	Bunnell
Arnow, Matthew, A&S	Hawthorn	Benson, J. Harry, Ed	Bunnell
Ash, Albert Lynn, Ed	Tarpon Springs	Benton, Mrs. Edna Clemons, Ed	Plant City
Asson, Thomas, Ed	Baldwin	Bergman, Mollie Ray, Ed	Tampa
Atkinson, A. W., Ed	Doctors Inlet	Berkstresser, Mary Elizabeth, Ed	Ed
Atkinson, Mary Crawford, Ed	Williston		Hawthorn
Austin, Merton Jesse, C&J	Orlando	Berry, Frances, A&S	Dade City
Avent, Robert M., L.	Jacksonville	Bothea, Giles W., Ed	Sanderson
Aycock, Pearl, A&S	Micro, N. C.	Bevis, N. Broward, Ed	Bascom
Ayres, Willard Wood, Ed	Gainesville	Bialolenki, André Scara, Ed	Ed
Babers, H. J., A&S	Gainesville		Long Island City, N. Y.
Babich, Peter, G.	Greensboro	Biddle, Homer Monroe, Ed	Bunnell
Badger, Louie Fredrick, C&J	Gainesville	Bielling, Alberta N., Ed	Lake Butler
Baer, Allan O., G.	Gainesville	Bilderbeck, James Lorin, G.	Newberry
Bailey, Annie Beatrice, Ed	Port Tampa	Billman, Mrs. Florence, Ed	St. Petersburg
Bailey, Mrs. Miriam H., A&S	Fort Myers	Birmingham, George W., G.	Ed
Bailey, Mrs. Thelma, Ed	Jacksonville		Jamestown, N. D.
Bair, Russell Owen, Ed	Ft. Lauderdale	Bisant, Oscar M., L.	Jacksonville
Baker, Mrs. Genevieve, Ed	Lake Worth	Bishop, Grace Louise, Ed	Cedar Key
Baker, Ira L., Ed	Delray Beach		

<i>Name and Classification</i>	<i>Address</i>	<i>Name and Classification</i>	<i>Address</i>
Bishop, Mrs. Hattie Beatrice, (E.E.), Ed	Tampa	Brown, Mrs. Loula Bell, (D.C.), Ed.	So. Jacksonville
Bishop, Howard Wayne, Ed.	Gainesville	Brown, Mary Fayrce, Ed.	Lake Butler
Bishop, Rebecca, Ed	Reddick	Brown, Mercedes, Ed.	Daytona Beach
Bishop, Robert Jefferson, Ag.	Bishopville	Brown, Merritt, Ed.	Panama City
Bishop, Mrs. Rodney L., (H.W.), Ed.	Gainesville	Brown, Nancy Knox, Ed.	Orlando
Blackburn, Maude Lillian, Ed.	Bowling Green	Brown, Ruby Lenora, Ed.	Live Oak
Blackwell, Mrs. Myra T., (N.F.), Ed.	Gainesville	Browne, Fae Regina, Ed.	Lake Wales
Blair, Collis Cyrus, A&S.	Quincy	Brumley, George William, A&S.	Gainesville
Blake, Robert George, Ed.	Tallahassee	Brunk, Lloyd Sandy, Ag.	Sebring
Blanchet, Mrs. Marie H., (J.L.), Ed.	Alva	Brunson, Homer Earl, A&S.	Pensacola
Blankner, Leonard F., Jr., C&J.	Orlando	Brunson, Reuben Edward, Ed, Gifford, S. C.	Bryan, Joseph Edwin, Jr., C&J.
Bledsoe, Mrs. Debbie Edith, (A.L.), Ed	Lithia	Bryan, Margaret, C&J.	Jacksonville
Bleier, Thco Joseph, Ed.	Coral Gables	Bryant, Alma Mae, Ed.	Lamont
Bloeker, Frank Eugene, Ed.	Blanton	Bryant, Mrs. Esther Howell, (B.W.), Ed	Gainesville
Bondi, Phillip Charles, Ed.	Tampa	Bryant, Ila Mae, Ed.	Gainesville
Bone, Elmer Edward, Ag.	Gainesville	Buchanan, Frances Webb, Ed.	Sarasota
Boney, Sallie Ellen, C&J.	Wauchula	Buchanan, Loy M., Ed.	Gainesville
Boon, Thelma Fern, Ed.	Jacksonville	Buchanan, Mary Frances, Ed.	Lakeland
Boone, Mrs. Lillian Beaty, Ed.	Tampa	Buehholz, Albert Wallace, Ed.	Tampa
Boore, Mrs. Gussie Mae, (R.H.), Ed.	Starke	Buehholz, Frederick W., G.	Gainesville
Boswell, Mary Ruth, Ed.	Lakeland	Buckley, John Albert, Ed.	St. Petersburg
Botts, Guy Warren, Ed.	Jay	Buckley, Thomas Heartwell, C&J.	Pensacola
Bowden, Evelyn Willa, Ed.	Leesburg	Bulerdiek, Mrs. Margaret E., Ed.	W. Palm Beach
Bowers, Edward Lee, Ed.	Gainesville	Burgess, Josephine Schaffer, Ed.	St. Augustine
Bowles, Mrs. Florida Odum, Ed.	DeLand	Burnett, Minnie Mae, Ed.	New Smyrna
Bowling, Mrs. Alice Portner, (R.E.), G	Naples	Burns, D. F., Ed.	Carrabelle
Bowman, Marion F., G.	St. Leo	Bussard, Mrs. Emma McGheehee, (H), Ed	Lake Wales
Bowyer, Ernest Jerome, Ed.	Lakeland	Bussard, Margie Mildred, Ed.	Babson Park
Boyd, William Daniel, Ed.	Jacksonville	Butt, Thomas Cecil, A&S.	Orlando
Boyte, James Durand, Eng.	Leesburg	Butts, John L., G.	Miami
Bozorth, Frances, A&S.	Gainesville	Cadwell, Catherine, Fd.	Bartow
Brauto, Peter, G.	Gainesville	Cain, John Carlton, Ag.	Perrine
Braddock, Mrs. Anna Dorothy, (A.L.), Ed	Clermont	Caldwell, Charles Barrett, Ed.	DeLand
Braddock, Wilton Lee, Ed.	Callahan	Caldwell, John Erwin, Ed.	Orange City
Bradley, Clara Belle, Ed.	Jacksonville	Calhoun, Paul White, G.	Madison
Brandon, Avis, Ed.	Limona	Callaway, Rosa, A&S.	Jacksonville
Brannon, Raymon Hatton, A&S, Kissimmee		Callen, Gertrude Vera, Ed.	Tampa
Brantley, Bruce Thomas, Ed	So. Jacksonville	Callis, Elizabeth, Ed.	Tampa
Brantley, Isabelle, Ed.	Jacksonville	Calmes, Claud Clark, Eng.	Gainesville
Brantly, Margaree, Ed.	Clermont	Calmes, Glenn B., C&J.	Gainesville
Bratcher, Leah Jean, Ed.	Pine Castle	Calvo, John Francis, C&J.	Jacksonville
Bremer, Dela Wilmore, Ed.	Jacksonville	Cameron, Pearl, Ed.	Jacksonville
Brenner, Amy Marie, Fd.	Davenport	Camp, Doris Agatha, Ed.	Mt. Dora
Brewster, S. Cordell, Ag.	Hilliard	Camp, Twin Aletha, Ed.	Mt. Dora
Bridges, Claude F., Ed.	Trenton	Campbell, Erma Leona, C&J.	DeLand
Bridges, George Ford, A&S.	Gainesville	Campbell, Harry G., Ed.	Hilliard
Bridges, Idena Marguerite, Ed.	Trenton	Campbell, Hazel Aline, Ed.	Hastings
Bridges, Lauretta Ellen, Ed.	Trenton	Campbell, Lulu Mae, Ed.	Hastings
Bridges, Mary Kathleen, G.	Blountstown	Campbell, Monroe, Jr., G.	Pensacola
Bridges, Sarah, Ed.	Sumner, Ga.	Campbell, Nettie Mae, Ed.	Hastings
Brockett, George Gordon, C&J.	Titusville	Campbell, William Lambert, Ed.	Kissimmee
Brodnax, Mrs. Stella B., (H.E.), Ed.	Daytona Beach	Cannon, Carl W., Ed.	Tampa
Broer, Billie, Ed	Wauchula	Caraballo, Martin, Jr., L.	Tampa
Broer, Dullye, Ed	Wauchula	Carlisle, Minnie Lee, Ed.	Ocala
Brook, Mrs. Myrtle Davis, (T.E.), Ed	Jacksonville	Carlisle, Ralph Cary, G.	Sneads
Brooks, Wilma Jane, Ed.	Tampa	Carlisle, William M., A&S.	Jacksonville
Brough, Mrs. Mabel L., (F.G.), Ed.	Ft. Myers	Carlton, Doyle Ivan, A&S.	Cocoa
Brown, Bennie Arden, Ed.	Miami	Carn, Mary, Ed	Citra
Brown, Mrs. Eileen Finkle, (C.C.), C&J	Gainesville	Carnes, Carl Clinton, G.	Gainesville
Brown, H. Drennen, Ed.	Leesburg	Carr, Archie F., A&S.	Umatilla
Brown, Jeannette, Ed.	Lake Butler	Carrigan, Richard Alfred, Ed.	Miami
		Carroll, Murray C., Ed.	Cottondale
		Carson, Thelma K., A&S.	Tampa
		Carter, Edgar White, G.	Oxford
		Carter, Ellie, Ed	St. Augustine
		Carter, Estella Mae, Ed.	Gainesville
		Carter, Ira Judson, Jr., Ed.	Newberry

<i>Name and Classification</i>	<i>Address</i>	<i>Name and Classification</i>	<i>Address</i>
Carter, Mrs. Nora A., (E.P.), Ed.	Palatka	Conoly, Flora Elizabeth, Ed.	Green Cove Springs
Carter, Ralph Edward, Ed.	Micanopy	Coody, Callie M., Ed.	Jacksonville
Caruthers, Thomas W., Ed.	Coleman	Coody, Willie Mae, Ed.	Jacksonville
Casebier, Martha A., A&S.	Kathleen	Cook, Mrs. Eddie Rawls, Ed.	Gainesville
Cashel, Raymond LeRoy, A&S.	Tampa	Cook, Erben, Ed.	Miami
Cawthon, Beatrice, Ed.	Bonifay	Cook, Frederick Edward, G.	Ocala
Chamberlain, Robert F., Ag. W. Palm Beach	Chamberlain, Mrs. Ruth Marie (E.R.), Ed.	Cooksey, Carrie, Ed.	Monticello
Chamberlain, Mrs. Ruth Marie (E.R.), Ed.	Mt. Dora	Cooksey, Kate Juanita, Ed.	Monticello
Chambliss, Henry Hollingsworth, A&S	Jacksonville	Copland, A. W., Eng.	Tampa
Champion, Irene Frances, Ed.	Perry	Copland, J. Dewberry, G.	Gainesville
Chapman, J. B., C&J.	Jacksonville	Cornelius, Thomas Bureh, Ed.	Gainesville
Cheney, Virginia Margaret, G.	Gainesville	Cornwall, Carroll, A&S.	Gainesville
Cheney, Waldo Berry, A&S.	Gainesville	Cotten, Mrs. Lucile Frohoek, (J.J.), Ed.	Perry
Cherry, Mrs. Mildred R., Ed.	Leesburg	Cox, Guy, G.	Lake City
Chessey, Loula, Ed.	Avon Park	Coy, Fred Elmer, Ag.	Gainesville
Chester, William Valentine, Ag.	Palatka	Crabtree, Clyde, Ed.	Largo
Chilson, Francis A., Ed.	Bradenton	Crabtree, Raymond Oscar, Ag.	Jacksonville
Christie, Minnie Ruth, Ed.	Jasper	Craft, Donald Goddard, L.	Live Oak
Church, Alice L., Ed.	Eustis	Craft, Mrs. Loyce Willis, (D.G.), Ed.	Gainesville
Clark, Frank W., Ed.	Indian River City	Crago, Jean Monfort, Ed.	Gainesville
Clark, Jefferson Davis, Ed.	Lake Wales	Crago, Mrs. Laura Monfort, Ed.	Gainesville
Clark, Vernon W., G.	Bradenton	Craig, J. A., Eng.	Miami
Clarke, E. M., L	Gainesville	Creamer, Betty, Ed.	W. Palm Beach
Clay, Irby Elizabeth, G.	Alva	Creel, Marion Catherine, Ed.	Bonifay
Clayton, Archibald Lewis, Jr., Ed.	Jacksonville	Crews, Edwin Hatcher, Ed.	Gainesville
Clement, Rhoda Gertrude, Ed.	Bartow	Crews, James Turner, Ed.	Gainesville
Clemons, Mrs. Marguerite Ross (M.E.), Ed.	South Bay	Crews, Lester T., A&S.	Venus
Clemons, W. N., Ed.	Tallahassee	Crews, Verdie I., C&J.	Jasper
Cliver, Virginia, Ed.	St. Petersburg	Crews, William Hilton, A&S.	Gainesville
Clubbs, Occie, G	Pensacola	Crook, Frances Elizabeth, Ed.	Milton
Cluxton, Mrs. Estelle Bodiford (C.A.), Ed.	Cross City	Croom, Hardy C., Eng.	Jacksonville
Clyatt, Marie Agnis, Ed.	Micanopy	Crow, Allen R., A&S.	Ft. Pierce
Clymore, Charles Nelson, A&S.	Gainesville	Crow, Lon Worth, Jr., A&S.	Miami
Coarsey, John W., A&S.	Bradenton	Crowell, Mrs. Bessie M., (J.M.), Ed.	Wauchula
Cobbe, Charles Thomas, Ed.	Gainesville	Crowell, John M., G.	Wauchula
Cochran, Frances Catherine, Ed.	Key West	Crowell, John Murphy, Ed.	Wauchula
Cockrell, Caroline Brevard, Ed.	Gainesville	Cullen, Ralph Osborne, L.	Ocala
Cockrell, Robert Spratt, L.	Gainesville	Cullen, Spencer Lanier, A&S.	Ocala
Cody, James Alden, A&S.	Penney Farms	Cumbie, Myrtle Estelle, Ed.	Clarcona
Cody, Lawrence Sidney, Jr., Eng.	Bunnell	Cunningham, Roy Lewis, Ag.	St. Cloud
Cogburn, M. Ben, C&J.	Sanford	Curry, Earl Smith, Ed.	St. Petersburg
Cohen, Cecil J., Ed.	Jacksonville	Curry, Mrs. Ruth Ball, (B.W.), Ed.	Palatka
Cohoe, Robert William, C&J.	Gainesville	Curry, Stella Virginia, Ed.	Jacksonville
Coil, Hugh, Ed.	Clearwater	Daffin, Frank Cecil, Ed.	Marianna
Coker, Shault L., Ed.	Lanton, Ga.	Dale, Mrs. Essie Winn, (H.R.), Ed.	Kissimmee
Colbert, Paul F., Ed.	Tavares	Dale, Neal Waldo, A&S.	St. Augustine
Coldwell, Walter Amze, Ag.	Daytona Beach	Dankwertz, Louis F., Ed.	Summerfield
Cole, Alberta Eleanor, Ed.	Tampa	Dauer, Mrs. Martha Fitts, G.	Tampa
Cole, Allen T., G.	Minnesota Lake, Minn.	Daughtrey, Mrs. Blanch Harvey, (J.H.), Ed.	Bradenton
Cole, Mrs. Mabel Alcorn, (E.J.), Ed.	Tampa	David, Mrs. Agnes McCrory, (J.A.), Ed.	Daytona Beach
Coleman, John M., G.	Gainesville	David, James B., G.	Jacksonville
Coleman, Mrs. Mabel Cantrell, Ed.	Jacksonville	Davidson, Mrs. Evelyn B., (W.P.), Ed.	Bushnell
Coles, Mrs. Lillie Bates, (F.F.), Ed.	Tampa	Davidson, Roy Allyn, Ed.	Fairplay, Colo.
Coley, Herbert S., A&S.	Pensacola	Davidson, Watson Perry, G.	Bushnell
Coley, Kate Willard, Ed.	Bluff Springs	Davis, D. M., Ag.	Frostproof
Collins, Eldridge Ruthren, A&S.	Fort White	Davis, Dorothy Delaney, Ed.	Miami
Collins, Sarah Lucille, Ed.	Jacksonville	Davis, F. Loca, Ed.	Frostproof
Collins, Theron Otis, Ed.	Fort White	Davis, Hinton, Ed.	Macon, Ga.
Collins, Vesta Elithe, Ed.	Gainesville	Davis, Isabelle, Ed.	Jay
Colson, Dorothy, Ed.	Trenton	Davis, John Ellison, Ed.	Inverness
Colson, Frances M., A&S.	Gainesville	Davis, Joseph Irving, L.	Miami
Colvin, Cecil Clyde, Ed.	DeFuniak Springs	Davis, Kate, Ed.	DeFuniak Spgs.
Cone, Mrs. Elizabeth Maney, (C.L.), Ed.	Tampa	Davis, Mrs. Leona Snyder, (J.R.), Ed.	Babson Park
Connell, Margaret Emmie, Ed.	Manatee	Davis, Sara M., Ed.	DeLand
Connell, Willie May, Ed.	Manatee	Day, Verna Emma, G.	Pensacola
Connor, Mrs. Elizabeth, (J.A.), A&S.	Pensacola		

<i>Name and Classification</i>	<i>Address</i>	<i>Name and Classification</i>	<i>Address</i>
Dayson, A. Raymond, Eng.	Gainesville	Ellis, Lucile, Ed.	Alachua
Dayton, George Cheek, L.	Dade City	Ellis, Mabel, Ed.	Miami
Dayton, Orvil L., L.	Dade City	Elmore, Martha Elizabeth, Ed.	St. Petersburg
Dean, Mrs. Maud L., (W.E.), A&S.	Monticello	Elsberry, Harold Edward, A&S.	Wimauma
Dechman, Stephen, A.	Jay	Elston, Annie Laurie, Ed.	Williston
Dees, Clayton Clyatte, Ed.	Day	Ermelhainz, Edgar Allen, Ed.	Bradenton
Dees, Lottie Mae, Ed.	Jasper	English, Rowena Mabel, Ed.	Plant City
DeGrove, Mrs. Edythe Helen, (J.M.), Ed.	Jacksonville	Ennis, Hettie Mae, Ed.	Jacksonville
Degtoff, Walter A., G.	Miami	Epperson, Kathryn, Ed.	Lake Butler
DeHaven, Mrs. Mabel Halcomb, Ed.	Palatka	Espenlaub, Mrs. Rena Plaine, (W.J.), Ed.	Venus
Dekle, James O., Jr., A&S.	Gainesville	Espinosa, Fernando Jose, C&J.	Tampa
Delaino, Doris Wilma, Ed.	Cedar Key	Etheridge, F. O., A&S.	Tavares
Delavan, Paul Tuttle, G.	Dade City	Evers, Mrs. Mollie, Ed.	Brandon
Dell, Mrs. Mildred Mathews, (H.T.), Ed.	Jacksonville	Evile, Mary Jane, Ed.	High Springs
Dell, Virginia Mae, Ed.	Jacksonville	Fagan, Henry L., Ag.	Gainesville
Denham, W. D., A&S.	Bartow	Fain, Leo B., Ed.	W. Palm Beach
Denton, Dorothy, Ed.	Micanopy	Fairbanks, William Ernest, A&S.	Jacksonville
DeShong, Virginia S., Ed.	Tampa	Fairlie, Margaret Carrick, Ed.	Jacksonville
DeVane, Charles Albritton, C&J.	Plant City	Farabee, T. N., G.	Wauchula
Dickenson, Mrs. T. E., Ed.	Ocala	Farmer, Mrs. Mattie Hugh, (J.W.), Ed.	Ocoee
Dickinson, Wm. B., A&S.	Tampa	Farnsworth, Lucile S., Ed.	Plant City
Dickinson, Mrs. Carlana, (W.N.), Ed.	Madison	Farnsworth, Mrs. Vera Myres, (F.W.), A&S.	Gainesville
Dishong, William W., L.	Arcadia	Farrior, J. Brown, A&S.	Tampa
Dodd, Mrs. Rebecca B., (E.B.), L.	Hastings	Farun, Fred N., G.	Palestine, Jerusalem
Dodson, Charles Lewis, G.	Gainesville	Fatic, Mrs. Lillian, (R.), A&S.	Sarasota
Dominy, Grace Grant, Ed.	Sopchoppy	Fayard, Marie, C&J.	Tampa
Donnelly, Wallace Oliver, G.	Gainesville	Feagle, William Barnett, Ed.	Madison
Dorchester, Clara Elizabeth, Ed.	Tampa	Feinberg, Marx, A&S.	Miami
Dorman, Ethelyn, Ed.	Bartow	Felt, Rena Blount, Ed.	Tampa
Dorman, Napoleon I., Ed.	Sanderson	Felts, Marcus R., C&J.	Jacksonville
Douglas, Eleanor, C&J.	Weirsdale	Fenn, Wm. Browning, C&J.	Miami
Douglas, Lawrence Young, Ed.	Dunedin	Ferguson, John Vernon, C&J.	W. Palm Beach
Dreher, Mrs. Mary Z., Ed.	Micanopy	Fetzer, Mrs. Amy Steen, (W.H.), C&J.	St. Petersburg
Drennan, Mrs. Etta Watkins, (W.), Ed.	Putnam	Ficquette, Arthur W., Ag.	Winter Garden
Driggers, Vaughan Wendell, G.	Eustis	Ficquette, Mrs. Mildred Louise Scott, (A.W.), Ed.	Ocoee
Duchesney, Pearl W., Ed.	Jacksonville	Field, John Walker, Ag.	Miami
Dudley, Edna, Ed.	Newberry	Field, Stanton Norton, C&J.	Miami
Duff, Lyle E., C&J.	Mims	Fifield, Harry A., A&S.	Jacksonville
Dugger, Lonnie Lee, G.	Macclenny	Finch, Edna Pearl, Ed.	Jacksonville
Dugger, Mrs. Marguerite Virginia, (E. D.), Ed.	Macclenny	Fine, Caroline, Ed.	Tampa
Dukes, Alva, Ed.	Dukes	Finlayson, Dorothy Blair, Ed.	Lake City
Dukes, Ethel, Ed.	Dukes	Finnan, Mrs. Miriam Rachel, (B.J.), Ed.	Tampa
Dukes, Hugh, Ag.	Dukes	Fitch, Juanita, Ed.	Live Oak
Dunbar, Martha Louise, Ed.	Crossville	Fitzgerald, Mrs. Louise Mathis, (E.W.), Ed.	Palmetto
Duncan, Carrie Etta, Ed.	Fort White	Flanagan, John Barnard, A&S.	Lakeland
Duncan, Wm. C., G.	Tampa	Fleming, James Monroe, A&S.	Pensacola
Dunham, Donald, Jr., A&S.	St. Augustine	Flowers, Ernest Clyde, Ed.	DeLand
Dunn, Charlotte D., Ed.	Gainesville	Flowers, Mrs. Madie Martin, (L.A.), Ed.	Campville
Dunscombe, Aubrey Elsworth, Ag.	Gainesville	Floyd, Clara Beckus, L.	Hawthorn
Durrance, Mrs. Augusta Winn, (H.G.), G.	Kissimmee	Floyd, Cyril J., Ed.	Summerfield
Durrance, Erna Lee, Ed.	Wauchula	Folsom, Dorothy Lee, Ed.	Leesburg
Durrance, Mary Ruth, Ed.	Brewster	Folsom, Mildred Louise, Ed.	Daytona Beach
Dye, Paul E., A&S.	Ft. Lauderdale	Forbes, Mrs. Willie Mae, (G.D.), Ed.	Ocala
Dyess, Lois Winifred, Ed.	St. Petersburg	Forehand, Eva, Ed.	Bonifay
Dyson, Annie Belle, Ed.	Sanford	Forsee, William Thomas, G.	Owenton, Ky.
Eagan, Mrs. Bessie Mullens, Ed.	Key West	Foster, Leo L., Ed.	Monticello
Easters, Mary Elizabeth, Ed.	St. Petersburg	Fountain, John Henry, Ed.	Miami Beach
Eastland, Mark Wilson, L.	Tampa	Fouraker, Mrs. Mary Norman, (N.B.), Ed.	Jacksonville
Edwards, Frances, Ed.	Thonotosassa	Fournier, Elizabeth Easterlin, Ed.	Gainesville
Edwards, George Wilkinson, A&S.	Orlando	Fowler, Nina Finn, Ed.	Miami
Edwards, Wm., C&J.	Ocala	Foxworth, Teety, Ed.	Hilliard
Edwards, William Thomas, Ed.	Eau Gallie		
Eif, Samuel, G.	St. Augustine		
Einig, Mrs. Ethie, Ed.	Miami		
Einsel, Barbara Virginia, Ed.	DeLand		

<i>Name and Classification</i>	<i>Address</i>	<i>Name and Classification</i>	<i>Address</i>
Franklin, Benjamin Otis, Jr., C&J.....	Micanopy	Griffin, E. Z., A&S.....	Winter Haven
Frazier, Frank James, Jr., A&S.....	W. Palm Beach	Griffin, Julianna, Ed.....	New Smyrna
French, Mrs. Katherine Farr, Ed, St. Cloud		Griffin, Margaret Pearl, Ed.....	Sarasota
Friedberg, Arthur, A&S.....	Tampa	Griffin, Robert C., C&J.....	Gainesville
Friedman, Julius Lewis, C&J.....	Dade City	Griggs, Mrs. Cora C. (L.A.), Ed.....	Oeklawaha
Frison, Vivian Jane Marie, Ed.....	DeLand	Griggs, Orvis B., Ed.....	Rockledge
Frison, C. Gerard, G.....	Titusville	Grimaldi, Theodora, Ed.....	Tampa
Frochok, Madena, Ed.....	Shady Grove	Grinsted, Alan Douglas, G.....	Orange, N. J.
Fugate, Lena, Ed.....	Orlando	Groom, Stewart B., Ed.....	Apalachicola
Fugate, Mamie L., Ed.....	Orlando	Groover, Mary, G.....	Lake City
Fugate, Mrs. Maude Clark, (W.R.), Ed.....	Williston	Guito, Mrs. Anna Shepherd, (F.H.), Ed.....	Key West
Fulford, Tynie T., Ed.....	Groveland	Guito, Francisco H., Ed.....	Key West
Fulton, Charles Britton, L.....	Lake Worth	Haase, G. H., A&S.....	Miami
Furen, Dorothy A., Ed.....	New Smyrna	Hack, Mrs. Bernice Mansfield, (G.O.), Ed.....	Gainesville
Futch, Mabry Delisle, Ag.....	Alachua	Hackney, Walter M., C&J.....	Lake City
Gale, Ivah Louise, Ed.....	Bellevue	Hagen, John Gordon, Eng.....	Jasper
Gall, Owen Edward, Ag.....	Zephyrhills	Hagler, H. D., Ed.....	Malone
Galloway, Pauline Elizabeth, Ed.....	Tampa	Hagler, John Tolbert, Ed.....	Bascom
Gant, Mrs. Gertrude, Ed.....	Bell	Hagler, Mrs. Mary Francis, (H.D.), Ed.....	Malone
Gant, Janet V., Ed.....	Webster	Hague, Mrs. Rosa Hiers, (T.), Ed, Chiefland	
Gautier, Ernest William, Ed.....	St. Petersburg	Haile, James Graham, Eng.....	Jacksonville
Gaylord, Mrs. Eleanor M., Ed.....	Tampa	Haile, Mrs. Jennie Rogers, Ed.....	Jacksonville
George, Josie, Ed.....	High Springs	Hales, Gladys, Ed.....	Ocala
Gerhard, Anna, Ed.....	Reddick	Hall, Beulah Touchton, Ed.....	Cross City
Getch, Lucy Belle, Ed.....	Tampa	Hall, Elsie, Ed.....	Ocala
Getzen, Annette Gist, Ed.....	Newberry	Hall, Emma, C&J.....	Cocoa
Giglia, Henry C., A&S.....	Tampa	Hall, Ethel, C&J.....	Green Cove Spgs.
Gilbert, Margaret Ellen, Ed.....	Orange City	Hall, Mrs. Ethel W., (F.E.), Ed.....	Tarpon Springs
Gillette, Gardner Talcott, C&J.....	Jacksonville	Hall, Inez, Ed.....	Bushnell
Gilley, Thelma Alleyne, Ed.....	Williston	Hall, Janie Pauline, Ed.....	Orlando
Glidewell, Grace Melvin, Ed.....	Jacksonville	Hall, Mary Catherine, Ed.....	Bartow
Godfrey, Frederick E., Jr., C&J.....	Orlando	Hall, Mrs. Nadia Venable, (H.P.), Ed.....	Center Hill
Godwin, Mrs. Helen White, (T.R.), Ed.....	St. Augustine	Hall, Pauline, Ed.....	Oxford
Goff, Oleta L., Ed.....	Live Oak	Hall, Mrs. Pearl F., (R.W.), Ed, Gainesville	
Goit, Mrs. Margaret Lindsay, (E.), Ed.....	Geneva	Hall, Robert M., Ed.....	Tavares
Goldstein, Arthur, P.....	Gainesville	Hamilton, Earl E., Ed.....	Pierson
Goodbread, Royce E., Ed.....	St. Petersburg	Hamlin, Edward Payne, A&S.....	Tavares
Goodrich, Mary Jane, G.....	City Point	Hammond, Ella Elizabeth, Ed.....	Hawthorn
Goodwill, Allen Bedell, Eng.....	Jacksonville	Hampton, Frankie Lucille, Ed.....	La Belle
Gordon, Donald P., A&S.....	Middletown, N. Y.	Hamrick, Wynona, Ed.....	Umatilla
Gordon, Mrs. Marie Cassidy, (D.P.), Ed.....	Miami	Hannon, Thelma Gray, C&J.....	Gainesville
Gordon, Sydney Hill, A&S.....	Ft. Lauderdale	Harbert, Ralph Edgar, C&J.....	Bunnell
Gore, Anna Mae, Ed.....	Ocoee	Hardaker, Marjorie Ella, Ed.....	Galloway
Gormly, Raymond E., Jr., Eng, Jacksonville		Hardee, Cola, Ed.....	Trenton
Gornro, Mrs. Eva Sullivan, (F.), Ed.....	Pompano	Hardee, Inez Velma, Ed.....	Chiefland
Gould, Robert Howard, Ed.....	DeLand	Hardee, Vida, Ed.....	Trenton
Gourley, Roy Clark, A&S.....	St. Petersburg	Harden, Mary Jane, Ed.....	Orange City
Gower, Oscar Samuel, C&J.....	St. Petersburg	Hare, Mrs. Edna Pardee, (J.L.), Ed.....	Micanopy
Grady, George Robert, Ag.....	High Springs	Hare, Virginia Caroline, Ed.....	Micanopy
Graham, Lenore May, Ed.....	Jacksonville	Harllee, Eleanor S., Ed.....	Tampa
Grand, Mrs. Eugenie M. Y., (P.E.), A&S.....	Orlando	Harllee, Mary Amelia, Ed.....	Tampa
Graves, Mrs. Marie Murphy (J.B.), Ed.....	Jacksonville	Harper, Elizabeth Jane, Ed.....	DeLand
Graves, Thelma Gertrude, Ed.....	Lake City	Harrell, Mrs. Irene W., (O.T.), Ed.....	Fort White
Green, E. Ames, C&J.....	Mims	Harrell, Ruby Florene, Ed.....	Bristol
Green, Eva L., Ed.....	Cortez	Harrell, William Keener, Ed.....	Marianna
Green, Gussie, Ed.....	Wildwood	Harris, Bessie Lucile, Ed.....	Gainesville
Green, Lucy, Ed.....	Graceville	Harris, Carl H., G.....	Jacksonville
Green, Sam, L.....	St. Petersburg	Harris, Clyde Edison, A&S.....	Lake Worth
Green, Wilson Payne, Ed.....	Reddick	Harris, F. Arthur, Eng.....	Sulphur Springs
Greene, Ellis Park, G.....	Boca Grand	Harris, Mrs. Jennie Newell, (S.S.), Ed.....	Orlando
Greenlaw, Mary Louise, Ed.....	St. Petersburg	Harris, Mrs. Nina McAllister, (Ed.), G.....	St. Petersburg
Greenman, John Roosevelt, G.....	Gainesville	Harris, Robert Ennis, G.....	Orlando
Greer, J. Dayton, Ag.....	Miami	Harris, Rubie Lee, Ed.....	Winter Garden
Gregory, Harbert C., A&S.....	Quincy	Harris, Samuel Jay, Eng.....	Miami Beach
Griffin, Carolyn, Ed.....	Palatka		

<i>Name and Classification</i>	<i>Address</i>	<i>Name and Classification</i>	<i>Address</i>
Harris, Sarah Satterwhite, G.	Jacksonville	Hodges, James Arthur, Ed.	Waldo
Harris, Mrs. Virginia B., (C.J.), C&J	Gainesville	Hodges, Jeannette Julia, Ed.	Miami
Harrison, Marvin Oziel, Ed.	Greensboro	Hodler, Charles Nathan, Ed.	Mango
Harrison, Mrs. Ruth M., (J.T.), Ed.	Tampa	Hoffman, George N., Eng.	Tampa
Harrison, Mrs. Elsie Boone, A&S.	Callahan	Hoffman, George P., Ed.	St. Petersburg
Hart, Allen Ethrel, Ed.	Gainesville	Hogan, Della, Ed.	Trenton
Hart, Mrs. Edna M., (W.H.I.), Ed.	Starke	Hogan, I. W., Ag.	Trenton
Hartsaw, Joseph Kenneth, A&S.	Orlando	Hogenauer, Eugene Francis, Ed.	St. Augustine
Hartsook, Richard Frost, Ag.	Danville, Ill.	Hohnadel, Mrs. Elizabeth M., (F.J.), Ed.	Tampa
Harvey, J. L., C&J.	Chipley	Holbrook, Gladys, Ed.	Jacksonville
Harwell, Mrs. Edna Mae, (L.C.), Ed.	Jacksonville	Holland, Richard Brevard, C&J.	St. Petersburg
Harwell, Grace, Ed.	Anthony	Holliday, Zola Padgett, Ed.	Coral Gables
Harwell, Hettie Redford, Ed.	Anthony	Holly, Carrie Blanch, Ed.	Ocala
Harwell, Lovell C., Ed.	Jacksonville	Holt, Eva Ellen, Ed.	Fort Meade
Haskell, Harold Notman, Ed.	Gainesville	Homan, Mrs. Lelia V., Ed.	Leesburg
Haskew, Reuel Finley, Ed.	La Belle	Hood, Bertha F., Ed.	Tampa
Hastings, Margaret Frances, Ed.	New Smyrna	Hooten, George M., Eng.	Jacksonville
Hatcher, Fritz, L.	St. Augustine	Hoover, Helen Mary, Ed.	St. Petersburg
Hatfield, James Stanfield, A&S.	Orlando	Hopper, Roland Otho, Ed.	Cleveland
Hatfield, John R., A&S.	Orlando	Horne, Sidney L., G.	Monticello
Hathaway, Harold C., A&S, Mt. Vernon, Ill.		Horovitz, Abe, C&J.	Jacksonville
Hawkins, G. A., G.	Bay Harbor	Horrel, James Gordon, L.	Orlando
Hayes, Helen B., Ed.	Webster	Hotchkiss, Mrs. Blanche R., Ed.	Orlando
Hayes, Mrs. Veronica M., (J.B.), Ed.	Palatka	Houle, Cyril O., Ed.	Sarasota
Haynes, Mrs. Lula M., (O.L.), Ed.	Ft. Meade	Houser, Mike Samuel, Ed.	Jacksonville
Hays, Mrs. John Allen (Lora Belle), Ed.	Ft. Myers	Howard, Alvan Roscoe, Ag.	Chiefland
Head, Charles, C&J	Plant City	Howard, Lettie Jean, Ed.	Gainesville
Heagy, J. Lucile, Ed.	Archer	Howard, Mrs. Mary Oni, (W.P.), Ed.	Island Grove
Hearn, Vernice Law, G.	Miami	Howarth, Catherine Stewart, A&S, DeLand	DeLand
Heath, Mrs. Errah D. S., (F.H.), Ed.	Gainesville	Howe, Mrs. Jessie Weir, (J.L.), Ed.	Williston
Hedges, Mrs. Susie Corn, (W.B.), Ed.	New Smyrna	Hubbard, Spence Ose, A&S.	Mulberry
Hedrick, Mary Ella, Ed.	Jacksonville	Huddleston, Paul Dumont, Ed.	Key West
Heisler, Myrtis Monette, Ed.	Graceville	Hudson, Fortune M., Ed.	Chiefland
Helms, Mrs. Mildred Turner, (E.L.), Ed.	Largo	Hudson, Iola, G.	W. Palm Beach
Helms, Mrs. Vera Hampton, (C.C.), Ed.	La Belle	Hudson, James Andrews, Ed.	Homestead
Henderson, Ethel Alene, Ed.	Jacksonville	Hudson, Margaret E., G.	W. Palm Beach
Henderson, John Jacob, L.	St. Augustine	Huffstetler, Wm. Preston, A&S.	Miami
Henderson, John Ward, A&S.	Tallahassee	Huffstetler, Fred Elmer, A&S.	Lebanon, Ill.
Henderson, Major J., A&S.	Baker	Hughes, Florence L., Ed.	Jacksonville
Hendrix, Helen Virginia, Ed.	Micanopy	Hull, Helen G., Ed.	Daytona Beach
Hendrix, Hettie, Ed.	Micanopy	Hull, Mrs. Margaret Lush, (F.H.), C&J	Gainesville
Hendrix, Ruby Estelle, Ed.	DeLand	Hunt, Jean Partin, Ed.	Titusville
Henley, Arlington M., Ag.	DeFuniak Spgs.	Hunter, James H., P.	Wewahitchka
Hentz, John G., Ag.	Bristol	Hunter, Mrs. Jessie Peeler, (B.O.), Ed.	Fort White
Hess, Charles Robert, L.	Jacksonville	Hunter, Rhea Della, Ed.	Gainesville
Hess, Martha Louise, Ed.	W. Palm Beach	Hurlbert, Mrs. Clara Belle, (J.J.), Ed.	Jacksonville
Hester, Robert Lewis, C&J.	Miami	Hurt, James L., A&S.	Gainesville
Heyman, Louis Henry, Ag.	Daytona Beach	Hutchinson, Arnold G., Ag.	Gainesville
Higgins, Jimmy Frank, Ed.	Gainesville	Hutzler, Damon Alden, Ed.	Orsino
Hill, Edward J., Ed.	Tallahassee	Hyman, Mrs. Orrie Virginia, (H.), Ed.	Palma Sola
Hill, J. Clarence, Ed.	Brantford	Ives, Selwyn Callaway, Ed.	Lake City
Hill, J. D., A&S.	Lake City	Ivey, Mrs. Frances, (A.R.), Ed.	New Smyrna
Hill, Maoma Frances, G.	Dade City	Jackson, Andrew Edwin, Ed.	Perry
Hillman, Mrs. Augusta Dodd, (J.C.), Ed.	Ocala	Jackson, Arthur E. A., Ag.	W. Palm Beach
Hills, Paul Williams, A&S.	Panama City	Jackson, Flora Bell, Ed.	Baconton, Ga.
Hilton, Rosa Nalle, Ed.	Baker	Jacobsen, Olaf, A&S.	Pensacola
Hiner, Lovell David, G.	Gainesville	Jahn, Fred Stephen, G.	New Port Richey
Hocking, George M., G.	Gainesville	Jaudon, Alva L., C&J.	Tampa
Hodges, Mrs. Dora B., (B.C.), Ed.	Orange City	Jeffers, George Arthur, Ed.	Jacksonville
Hodges, Mrs. Edna Freeman, (W.J.), Ed.	Tampa	Jelks, Marie, G.	Pompano
Hodges, Gladys, Ed.	Lake City	Jenkins, Joe, C&J.	Leesburg
		Jenkins, Joe Clint, L.	Gainesville
		Jenkins, Wm. S., Ed.	Jacksonville
		Jennings, Francis C., G.	Jacksonville

<i>Name and Classification</i>	<i>Address</i>	<i>Name and Classification</i>	<i>Address</i>
Jennings, Susan Jane, Ed.	Detroit, Mich.	Kelsey, Geo. A., Ed.	Lake Placid
Jenkins, Mrs. Anne E., (W.F.), Ed.	St. Petersburg	Kelso, Mabel Marie, Ed.	St. Petersburg
Jernigan, Effie L., Ed.	Wellborn	Kemp, William David, A.	New Berlin
Jernigan, Mrs. Iva N., (W.B.), Ed.	Tampa	Kennington, James B., Ed.	Ponce de Leon
Jester, Margaret Elizabeth, A&S.	Birmingham, Ala.	Kennington, Lyndell, Ed.	Ponce de Leon
Johns, Henry Lamar, Ed.	Wellborn	Kent, Mrs. Mary Louise, (H.), Ed.	Tampa
Johns, Ina Mae, Ed.	Live Oak	Kerr, Margaret Albury, Ed.	Tarpon Springs
Johnson, Alex Ralph, G.	Sanford	Kicklighter, John D., Eng.	Sarasota
Johnson, B. Alexander, L.	Lake Wales	Kicklighter, Mrs. Matera F., (J.F.), Ed.	Sarasota
Johnson, Clara E., Ed.	Bonifay	Kickliter, Henry Grady, Ed.	Tampa
Johnson, Clifton Drew, G.	Clearwater	Kilgore, Janie Massey, Ed.	Jacksonville
Johnson, Dora, Ed.	Lake Butler	Kimbrough, Blanche Martha, Ed.	Jacksonville
Johnson, Elizabeth J., A&S.	Eustis	Kinard, Florace, Ed.	Ft. White
Johnson, Ethel Dorothy, Ed.	St. Petersburg	King, Ethel Mary, Ed.	Tampa
Johnson, Eva Crawford, Ed.	Evinston	King, Linda Lee, Ed.	Sarasota
Johnson, Mrs. Florence Lorena, (L.E.), Ed.	Jacksonville	King, Ruby Evelyn, Ed.	Tampa
Johnson, Georgia, Ed.	Hawthorn	Kingry, Johnnie Reba, Ed.	Blountstown
Johnson, Henrietta Bird, G.	Tampa	Kinkade, Mrs. Robbye W., (E.T.), Ed.	Fort Pierce
Johnson, Mrs. Jessie W., (L.T.), Ed.	Trenton	Kinsaul, William Walter, Ed.	Gainesville
Johnson, Mrs. June Billings, (T.J.), Ed.	Tampa	Kinsey, Russell William, Ed.	Aucilla
Johnson, Lois A., Ed.	Hawthorn	Kinzie, Norman Francis, Ed.	Fort Myers
Johnson, Lorena H., Ed.	Jacksonville	Kipp, Robert Earl, Ed.	Sanford
Johnson, Mrs. Mary Burnham, (A.L.), Ed.	Milton	Kirby-Smith, Reynold Marvin, Jr., Eng.	Jacksonville
Johnson, Mrs. Mary Ivey, Ed.	W. Palm Beach	Kirton, Mrs. Laura S., (J.S.), Ed.	Winter Garden
Johnson, Mrs. Queenie Herlong, (C.D.), Ed.	Clearwater	Knight, Mrs. Elva W., Ed.	Floral City
Johnson, Mrs. Rubye Groom, (S.S.), Ed.	Monticello	Knight, Fred Key, G.	Cresecent City
Johnson, William Longley, C&J, Key West	Jay	Knight, Marjorie, Ed.	Russell
Johnson, Willie A., Ed.	Inverness	Knight, Mrs. Mizelle, Ed.	Lake Butler
Johnston, Nellie Lorraine, Ed.	Wimauma	Knight, Mrs. Viola Nash, (T.J.), Ed.	Jacksonville
Jolley, Dorothy, Ed.	Ocala	Knight, Zelma Emogene, Ed.	Green Cove Springs
Jones, Agnes Gray, Ed.	Alma, Ga.	Knott, James Robert, C&J.	Tallahassee
Jones, Bessie Lee, Ed.	Old Town	Knox, Iris Nodine, Ed.	St. Petersburg
Jones, Carmel A., A&S.	Trenton	Koegler, Wm. Frederick, L.	Miami
Jones, Mrs. Dorcas Brown, (J.T.), Ed.	Floral City	Koester, Frieda Erna, Ed.	DeLand
Jones, E. Ulman, Ed.	Gainesville	Kolb, Bertha, Ed.	Aripeka
Jones, Elise Cecile, G.	Blakely, Ga.	Kramer, Geo. W., Ag.	Winter Haven
Jones, Ella, Ed.	DeLand	Kreher, Alma Elizabeth, Ed.	Tampa
Jones, Emily Capers, G.	Newberry	Kromer, Arthur Edward, Jr., Ed.	Tarpon Springs
Jones, Lucile, Ed.	Newberry	Kuhl, Henrietta, C&J.	Shiloh
Jones, Mary Mildred, Ed.	DeLand	Kuhlman, Eleanor Pauline, Ed.	Aripeka
Jones, Patricia Niles, G.	Jacksonville	Kyle, Mrs. Mary, (C.E.), Ed.	Winter Haven
Jones, Phyllis Kathriene, Ed.	Tampa	LaBree, Mrs. Elise Henson, (L.W.), Ed.	Jacksonville
Jones, Mrs. Ruby Sasser, (W.W.), Ed.	St. Petersburg	Lagano, Albert A., Ed.	Gainesville
Jones, Thomas Capers, Ed.	Old Town	Laird, Conrad Solomon, Ed.	Shady Grove
Jones, Violet Louise, Ed.	Ocala	Laird, Emma A., Ed.	Greenville
Justen, Mrs. Mary Louise, Ed.	Tampa	Laird, Mrs. Gladys O'Neal, Ed.	Tampa
Kanner, Samuel J., Ed.	Miami	Lamb, Mrs. Dorothy, (T.G.), Ed.	Anthony
Kannon, Mrs. Sudie Wilkes, (A.B.), Ed.	Winter Garden	Lamond, Ira Athel, Eng.	Fort Pierce
Katz, Ely, C&J.	St. Petersburg	Lamphere, Joel Ralph, C&J.	Plant City
Kea, J. W., Ag.	Hawthorn	Lander, David L., C&J.	Lakeland
Keck, Vera Harriett, C&J.	Orlando	Landers, Margaret Carolyn, Ed.	Jacksonville
Keel, Walker, A&S.	Mulberry	Landers, Mrs. Margaret Hix, A&S.	St. Petersburg
Kelley, Aline, Ed.	Gainesville	Landrum, Tom J., L.	Tampa
Kelley, Forrest M., Jr., A&S.	Gainesville	Laney, E. J., Ed.	Oviedo
Kelley, Gayle, Ed.	Haines City	Laney, Harrison J., G.	Oviedo
Kelley, J. B., Ed.	Lake Wales	Laney, Marion Gray, Ed.	Oviedo
Kelley, J. T., Ed.	Haines City	Langford, Mrs. Myrtle Wood, (J.O.), Ed.	Alachua
Kelley, Laura May, Ed.	Gainesville	Langston, Mary E., Ed.	Jacksonville
Kelly, Mrs. Birdie L., (J.H.), Ed.	Gainesville	Larson, John Edwin, L.	Keystone Heights
Kelly, Cornelia Eleanor, Ed.	Gainesville	Larson, Lawrence John, G.	Winter Haven
Kelly, Hazel Dorothy, Ed.	Gainesville	Laslie, Kate, Ed.	Cross City
Kelly, Mildred, Ed.	Perry	Lastinger, Allen Lane, Ag.	Sulphur Spgs.
		Lau, Earl W., C&J.	Winter Garden

<i>Name and Classification</i>	<i>Address</i>	<i>Name and Classification</i>	<i>Address</i>
Lau, Lorene Clarice, Ed.	Gotha	McCoy, Robert Collins, C&J.	Winter Haven
Lavery, Harry James, Eng.	Gainesville	McCracken, Ernest M., G.	Gainesville
Lavin, Charles G., Ed.	Sarasota	McCrory, Seaborn M., Jr., Ed.	W. Palm Beach
Lavin, John S., C&J.	Sarasota	McDaniel, Oma E., Ed.	Chiefland
Lawrence, Fred Parker, Ag.	Gotha	McDaniell, Mrs. Mary Floyd, (S.R.), Ed.	Gainesville
Lawson, Lois Mae, G.	Lake Wales	McDonald, Frank Anderson, A&S.	Tampa
Leaird, George Wilson, L.	Ft. Lauderdale	McDonald, Katie Alice, Ed.	Bonifay
Leard, Louise, Ed.	Tampa	McDonald, Pauline F., Ed.	New Smyrna
Lee, Mary Lou, Ed.	St. Augustine	McDonald, Walter Handley, Ed.	Jacksonville
Leffers, Richard, C&J.	Lakeland	McEwen, Maude O., G.	Zellwood
Leitner, Kathleen Alma, Ed.	Micanopy	McFarlin, Mrs. Joe M., (J.P.), Ed.	Moore Haven
Leto, Ateo Philip, Ed.	Tampa	McGarity, Mrs. Carol Virginia, (F.V.), Ed.	Fort Pierce
Lewis, Mrs. Claire, Ed.	Coleman	McGarity, Mary Carolyn, A&S.	Fort Pierce
Lewis, Kathleen, Ed.	Tampa	McGarragh, Nell, Ed.	Gainesville
Lewis, Mittie Clyde, Ed.	Pelham, Ga.	McGrath, Blanche B., Ed.	St. Petersburg
Lindsey, Muriel Eunice, Ed.	Trenton	McGraw, Elizabeth Mae, Ed.	Jacksonville
Lindsey, X. L., Ed.	Alachua	McIntire, James Edgar, G.	Trenton
Link, H. Milton, Ag.	Orlando	McIntire, Mrs. Mildred Louise, (J.E.), Ed.	Trenton
Link, Nathan Harold, C&J.	Manatee	McJunkin, Della Kathryn, Ed.	Baker
Lipe, Rena B., Ed.	Daytona Beach	McKenzie, David Myron, A&S.	Bunnell
Littig, S. Kent, A&S.	Tallahassee	McKeown, Charles William, A&S.	Gainesville
Little, Leavitt Webster, Ed.	Tarpon Springs	McKinley, Frank Hubert, Eng.	Gainesville
Livingston, Mattie Frances, Ed.	Carbur	McKinney, Doris L., Ed.	Bushnell
Lloyd, Mrs. Aurora Leto, (W.F.), Ed.	Tampa	McKinney, Eula Lee, Ed.	Archer
Lloyd, William F., Ed.	Tampa	McKinney, J. M., Ag.	Cross City
Lockett, Robert Winfrey, Ed.	Jacksonville	McKnight, Reuby Reno, Ed.	Leesburg
Lockwood, Ida Florence, Ed.	Tampa	McLane, Eldridge F., G.	Brandon
Loften, Wm. T., G.	Alachua	McLaughlin, Randolph A., A&S.	Tampa
Lopez, Mrs. Minie A., (A.L.), Ed.	Tampa	McLean, Mrs. Ruth Patterson, (W.S.), Ed.	Tampa
Lord, Mills M., Jr., G.	Sanford	McLendon, Altha Lea, Ed.	Jacksonville
Loughren, Edith Louise, Ed.	Tampa	McLendon, Ida Ruth, Ed.	Jacksonville
Love, Bertha Lee, Ed.	Trenton	McLin, Vivian, Ed.	Tampa
Love, Cecil Elmer, A&S.	High Springs	McMillan, Ann Averil, Ed.	Gainesville
Love, Wm. Knox, A&S.	Lakeland	McMullen, Mrs. Clemmie Whittle, (D. H.), Ed.	Dunedin
Lovell, Mrs. Flora Estha, Ed.	Seffner	McMullen, John L., Ag.	White Springs
Lowe, Jessie M., A&S.	Holly Hill	McNeill, Mrs. Emma M., (J.P.), Ed.	Lumberton, N. C.
Lowman, Mrs. Cora Lina, (A.I.), Ed.	Tampa	McPherson, Ruth Adams, Ed.	Gainesville
Lucius, Agnes Faye, Ed.	Gainesville	McRae, Elizabeth K., Ed.	Tampa
Ludwig, Gerald Edward, G.	Sarasota	Mack, Edward Reed, A&S.	Lakeland
Luffman, Ida Lena, Ed.	Ocala	Maekie, Walter H., C&J.	Lake Worth
Lunn, Mrs. Annie Lee, (B.L.), Ed.	Lake Alfred	Maddox, Mrs. Mildred Irene, (R.C.), Ed.	Gainesville
Luttrell, Karl F., Ed.	Brooksville	Maddox, Russell C., Ed.	Gainesville
Lynch, Harold John, G.	Gainesville	Magill, Robert R., Eng.	La Belle
Lytle, Mrs. Caroline P., (E.J.), Ed.	East Lake	Mahon, Daisy Belle, Ed.	Arcadia
McAdam, Charles B., G.	Pensacola	Mahon, Edna, Ed.	Arcadia
McAfee, Helen Vivian, Ed.	Tampa	Maines, Orlando M., Ag.	Gainesville
McAllister, Elizabeth Jane, G.	St. Petersburg	Makowsky, William Steven, Ed.	Artesia
McAnally, Mrs. Selma D. Thompson, (O.Z.), Ed.	Melbourne	Mann, Don T., G.	Newberry
McArthur, Hugh Lynn, L.	Tampa	Mann, Francis Stuart, Ed.	Gainesville
McArthur, Owen Page, C&J.	Gainesville	Manning, Mrs. Janie Stroud, (E.M.), G.	Lakeland
McCall, Allen D., Ed.	Bagdad	Marlowe, Mabel Mina, Ed.	Newberry
McCall, Byrd Moody, Ed.	Jasper	Martin, Annie Mae, Ed.	Hawthorn
McCall, Chloe Frances, Ed.	High Springs	Martin, Claudia E., Ed.	Gainesville
McCall, Georgie E., Ed.	Lake City	Martin, Edyth Vera, Ed.	Moss Bluff
McCall, Mary Eva, Ed.	Sarasota	Martin, Mrs. Grace Hope, Ed.	Howey-in-the-Hills
McCaul, Thomas Vaden, Jr., L.	Gainesville	Martin, Mae Belle, Ed.	Sarasota
McClane, James Huston, A&S.	Gainesville	Martin, Mrs. Mary L. (G.B.), Ed.	Palatka
McClellan, James A., Ag.	Monticello	Martin, Memory, Ed.	Gainesville
McClellan, Josie Lee, Ed.	Monticello	Martin, Miriam J., C&J.	Gainesville
McClinton, Annie L., Ed.	Fort White	Martin, Olive Frances, A&S.	Orange City
McClinton, Edith Lillian, A&S.	High Spgs.	Martin, Roe M., G.	Gainesville
McCloud, Daniel David, Ag.	Bradenton	Martin, Swan, Ed.	Gainesville
McClure, Wanda Virginia, Ed.	Bradenton		
McClurg, Ernest C., C&J.	Lakeland		
McCollum, Malcolm S., Ed.	Bushnell		
McCormick, Elizabeth Jane, Ed.	Eau Gallie		
McCormick, Mrs. Nannie Curtis R. M., (L.M.), Ed.	Gainesville		
McCormick, Rayford Charles, Ed.	Gainesville		

<i>Name and Classification</i>	<i>Address</i>	<i>Name and Classification</i>	<i>Address</i>
Martineau, Edward Arthur, A&S,	Saint Leo	Moore, John P., A&S	Ocala
Mashburn, Mansel Malone, Ed.,	Youngstown	Moore, Mrs. Leila Carter (J.M.), Ed.	Tampa
Massengill, Joseph Warren, Ed.,	Alachua	Moore, Lizzie V., Ed.	Laurel Hill
Massey, Euda, Ed.,	New Smyrna	Moore, Otto Franklin, Ed.	Lakeland
Masters, Edna D., Ed.,	Middleburg	Moore, Robert Julian, A&S	Lake City
Masterson, Mrs. Nettie May, (W.G.),	Ocala	Moore, Sara Elizabeth, Ed.,	Bishopville, S. C.
Ed.	Madison	Moore, Mrs. Sue M., (S.M.), Ed.,	Marathon
Matheny, Candler Calhoun, Ed.,	Leesburg	Moore, Vivien Dennis, Ed.	Jay
Mathews, Reuben Rennolds, C&J,	Leesburg	Moorman, John H., G.	Winfield, Iowa
Matthews, Mrs. Elizabeth Seale, (J.R.),	Hawthorn	Moreland, Hazel Pauline, Ed.	Fort White
Ed.	Ponce de Leon	Moreland, Winnie Louise, Ed.	Fort White
Matthews, Howard A., Ag.	Sanford	Morford, Cora Edna, Ed.	Port Orange
Maxwell, Jean, Ed.	Inverness	Morgan, Dorothy Mae, Ed.	Jacksonville
May, Florence Camille, Ed.	LaCrosse	Morgan, Lillian Claire, Ed.	Micanopy
May, Mrs. Leona M., (W.A.), Ed.,	Jacksonville	Morgan, (Nina) Annetta, Ed.	Jacksonville
Mayo, Wm. Thomas, L.,	So, Jacksonville	Morgan, Wynne Harold, A&S	Miami
Meadows, Mrs. Carolyn Harris, G.,	Umatilla	Morris, Alice Mae, Ed.	W. Palm Beach
Meadows, Claire, Ed.	Citra	Morris, Frances Clyde, Ed.	Bushnell
Means, Ethel K., Ed.	Tampa	Morris, Mrs. Harold A., Ed.	Largo
Mears, Bert Irwin, Ed.	Clearwater	Morris, Margaret McLeod, Ed.	Bushnell
Meffert, Mabel, Ed.	Ocala	Morrison, Mathew E., Ed.	St. Petersburg
Mehlman, George Black, L.,	Jacksonville	Morrow, Albert Roy, Ed.	Alachua
Mellen, Frederick Churchill, L.,	Pensacola	Morrow, Mrs. Barnard, (A.R.), Ed.	Madison
Melton, Mrs. Myrtle Carter, (H.J.), G	Tampa	Morrow, John Albert, G.	Gainesville
Ed.	Tampa	Morrow, Russell Oliver, L.	Lake Worth
Mendez, G. H., Ag.	Pensacola	Morse, Clara Marguerite, Ed.	Clearwater
Merbler, Adam Albert, Ed.	Pensacola	Morton, Mrs. Merle Poetting, (C.W.),	So, Jacksonville
Merchant, Thomas Curry, A&S	Madison	Ed.	Palatka
Metcalfe, Mrs. Willie A., (H.G.), Ed.	Gainesville	Mott, Sara Myrtle, Ed.	Gainesville
Ed.	Wabasso	Mott, Thelma Peggv, G.	Lynn Haven
Mikell, Ila Estelle, Ed.	Olustee	Mowat, Donald D., Ag.	Tallahassee
Mikell, Wm. Owen, Ed.	Jacksonville	Moyal, Abraham, Ag.	Tallahassee
Miller, Charles, L.,	Bay Harbor	Murphy, James A&S	Ponce de Leon
Miller, Clara Pearl, G.	Melbourne	Murray, Robert, Ed.	Mynihan, Margaret Mary, Ed.
Miller, E. H., Ed.	Miami	Ed.	So, Jacksonville
Miller, Edward Loring, Ed.	Ft. Pierce	Myres, Franklin K., A&S	Gainesville
Miller, Helen Mary, Ed.	Gainesville	Nalle, Mrs. Maude Chester, (D.S.), Ed.	Jacksonville
Miller, Mrs. Ruby Albright, Ed.	Palatka	Nash, Mrs. Gladys Margaret, (S.R.), Ed.	Clearwater
Millican, James Henry, L.	Jacksonville	Nation, Mrs. Clyde Hicks, (G.W.), Ed.	Ft. Myers
Milligan, Marcella, Ed.	Madison	Ed.	Neck, Mrs. Mae Helen, (R.E.), Ed.
Millnor, Myrtice, Ed.	Live Oak	Neel, Marguerite T., Ed.	Wauchula
Mills, Brantley Rees, Ag.	Archer	Nelson, Elma, Ed.	Chipley
Mills, H. M., Ed.	Archer	Nelson, Flora A., Ed.	Gainesville
Mills, Mrs. Juanita Wiles, (B.E.), Ed.	Archer	Nesbitt, Melanie, A&S	St. Augustine
Ed.	Archer	Newberg, E. Albin, L.	Ocoee
Mills, Mrs. Marion Emma, (H.N.), Ed.	Branford	Newberg, Mrs. Evelyn Amanda (E.A.),	Ocoee
Ed.	Macclenny	Ed.	Jacksonville
Mills, Mrs. Ruth Ora, Ed.	Marianna	Newsom, Sheldon M., Ed.	Winter Garden
Milton, Augusta G., Ed.	Macclenny	Newton, Laura Alice, Ed.	Live Oak
Milton, John Dekle, A&S	St. Petersburg	Newton, Nelle Elizabeth, Ed.	Bonifay
Milton, Van Oscar, Ed.	W. Palm Beach	Newton, Vella Elizabeth, Ed.	Lakeland
Minor, Leonidas Corby, Ed.	High Springs	Nickerson, Bernice M., Ed.	Lakeland
Miscally, Elizabeth, Ed.	Live Oak	Nixon, Mrs. Vivian McNeill, (R.McA.),	Eustis
Mitchell, Mrs. Faustine Humphries, (H. F.), Ed.	Gainesville	Ed.	St. Petersburg
Mitchell, Horace Franklin, G.	Gainesville	Noel, Leon William, C&J	Bascom
Mitchell, Janice Anita, Ed.	Gainesville	Nordan, Curtis R., Ed.	Greenwood
Mitchell, Mrs. Jean Oltman, (W.K.),	Arcadia	Nordan, Ralph Willard, Ed.	Gainesville
Ed.	Daytona Beach	Norfleet, Joe H., Ed.	Miami
Mitchill, Mrs. Orlin Rencher, Ed.	Daytona Beach	Northrop, Floyd Lorrain, G.	Panama City
Mizell, Mrs. Caroline G., Ed.	Daytona Beach	Norton, Bessie Amanda, G.	Winter Haven
Mizell, Charles Glenn, Ed.	Daytona Beach	Norton, Elizabeth, G.	Jacksonville
Mizrabi, Ralph Seymour, A.	Missoula, Mont.	Norton, Frances Caroline, Ed.	Oberdorfer, Douglas Wallace, A&S
Mobley, Mrs. Martha Ivey, (Roy), Ed.	Missoula, Mont.	Ed.	Jacksonville
Ed.	Plant City	O'Brien, Marion Patricia, A&S	Miami
Moesser, Katherine Elizabeth, Ed.	Gainesville	O'Bryant, Horace, G.	Oxford
Ed.	Daytona Beach	O'Bryant, Violet, Ed.	Oxford
Moesser, William J., Eng.	Daytona Beach	Oxden, Lillie Mabel, Ed.	Old Town
Mollet, Charles E. F., G.	Missoula, Mont.	O'Hara, Marion A., Ed.	Live Oak
Montgomery, James Douglas, Ed.	Gainesville		
Moody, T. Edwin, C&J	Plant City		
Moon, Robert Cary, G.	Gainesville		
Moore, Francis Earle, C&J	Anthony		
Moore, Mrs. Haidie Nichols, (V.D.), Ed.	Jay		

<i>Name and Classification</i>	<i>Address</i>
O'Hara, Milrey Elizabeth, Ed.	Ellanville
O'Hara, Mrs. Sallie Rubye, (J.W.), Ed	Macclenny
Oliver, Lanora Elizabeth, Ed.	Gainesville
Olsen, Emma Olivia, Ed.	Punta Gorda
O'Neal, Patricia M., A&S.	Gainesville
Ormsby, Helen Eva, Ed.	St. Petersburg
Orr, James Lawrence, Ed.	Ft. Myers
Orr, Reuben Bennett, G.	Gainesville
Ortiz, Carmelita Louise, Ed.	Jacksonville
Osteen, Mrs. Bernice, (W.F.), Ed.	Bronson
Osteen, W. F., Ed.	Bronson
Outzs, Eunice A., Ed.	Aucilla
Overstreet, Anne Emeline, Ed.	Jacksonville
Overton, Edith Emma, Ed.	Miami
Owen, Mildred, Ed.	Oxford
Owens, Thomas Andrew, Ed.	Clearwater
Paderewski, Alexander, A&S.	Arcadia
Page, Mrs. Gertrude M., (E.E.), Ed.	Sanford
Paige, Ralph Edward, Ed.	Gainesville
Palin, Mrs. Marion E. Wingate, (A.W.), Ed	Jacksonville
Palmer, Mrs. Lilla Clark, (C.A.), A&S	Gainesville
Palmour, Charles E., Ed.	Anthony
Pardee, Charles Stansburg, Ed.	Avon Park
Parker, Fronia, Ed.	Live Oak
Parker, Seeber Lang, Eng.	St. Petersburg
Parnell, Mrs. Annie, (E.N.), Ed.	Jensen
Parnell, Ed. Nelson, Ed.	Jensen
Parrish, Joice, Ed.	Ocala
Parrish, Lesley R., Ed.	Parrish
Parrish, Mary Ann, Ed.	Lakeland
Parrish, Mrs. Mattie Wilby, (H.M.), Ed	Lake City
Parrish, Susie Ella, Ed.	Parrish
Parrish, Mrs. Will, Ed.	Parrish
Paul, Victor Hart, A&S.	Watertown
Payne, Anne Elizabeth, Ed.	Dowling Park
Payne, Beecher Ward, Ed.	Dowling Park
Peabody, Wright W., L.	Coral Gables
Peacock, Mrs. Emmie G., Ed.	Live Oak
Pearson, James T., A&S.	Miami
Pearson, Seibert Clinton, G.	Alachua
Pearson, Mrs. Vera, Ed.	Miami
Peeler, Ruth Beatrice, Ed.	Gainesville
Peeples, Lorace Helen, G.	Bowling Green
Pepper, Louis Calvert, L.	Gainesville
Perkins, Eunice, Ed.	Starke
Perkins, Lindsey S., Ed.	Pine Castle
Pierloff, Lewis, C&J.	Jacksonville
Perry, Mrs. Nannie Wimberly, (W.A.), Ed	Orange Springs
Perryman, Vivian Irene, Ed.	Lecanto
Peters, Eddie Joe, Ed.	Jay
Peters, Katherine, Ed.	Tampa
Peterson, Frank Lon, G.	Miami
Pettit, Elsie Doane, A&S.	Waldo
Phillippe, Mrs. Emmie I., Ed.	Gainesville
Phillips, Emma Althea, Ed.	Bonifay
Phillips, Wallace, Ed.	Chipley
Philpott, Frank Excell, Jr., Ed.	St. Cloud
Pickett, Erma M., Ed.	Jacksonville
Pinder, John McFerran, Ed.	Islamorada
Pinholster, Lu Amanda, Ed.	St. Petersburg
Pinkoson, Bessie, A&S.	Gainesville
Pitts, Levi Clarence, Jr., Ed.	New Smyrna
Plank, Mrs. Christine Olivia, G.	Jacksonville
Polk, Mrs. Harriet P., (C.L.), Ed.	Jacksonville
Ponce, Mrs. Jennie Elizabeth (R.D.), Ed	Jacksonville
Pope, Paul Marvin, Eng.	Jacksonville

<i>Name and Classification</i>	<i>Address</i>
Poppell, Juanita, Ed.	Jacksonville
Porter, Ralph Elma, Ed.	Marianna
Potter, Jonnie Lou, Ed.	Ocala
Potts, Joseph Dascomb, A&S.	Gainesville
Pournelle, Mrs. Ruth Lewis, (E), Ed.	Orlando
Powell, Mrs. Elam Deal, (J.W.), Ed.	Shamrock
Powell, Miriam, Ed.	Jacksonville
Powell, Wilma Lorraine, Ed.	Myakka City
Price, John Howell, Ed.	Center Hill
Price, Josephine, Ed.	Daytona Beach
Price, Mary Lillian, Ed.	Ruskin
Price, Ruth U., Ed.	Alva
Priest, Clarence Patrick, Ed.	Sanford
Priester, Harold F. II, Ed.	Lake Butler
Pritchard, Rosa V., Ed.	Tampa
Proctor, Carlos Ray, Ed.	Tampa
Pruitt, Mrs. Helen McCorkle, (W.D.), Ed	Bradenton
Prunty, John William, A&S.	Miami
Puckett, Ethel M., Ed.	Floral City
Puckett, Fannie Glenn, Ed.	Floral City
Puckett, Lois Adalaide, Ed.	Floral City
Puckett, Louise Rebecca, Ed.	Floral City
Purcell, Jack H., A&S.	Lakeland
Purvis, Roy L., C&J	Miami
Quade, W. O., A&S.	Jacksonville
Quarterman, Mrs. Jonnie McLean, (W. E.), Ed	Jacksonville
Raborn, Eugene Grant, A&S.	Trenton
Race, George Watson, Ed.	Valdosta, Ga.
Race, Guy Austin, Ed.	Bristol
Rader, A. M., Eng.	Lakeland
Rader, Marcia Ashton, Ed.	Sarasota
Rader, Rachel Elizabeth, Ed.	Lakeland
Radin, Jeannette Mary, G.	Poland
Rains, Henry B., A&S.	Gainesville
Ramsey, James A., Ed.	Blountstown
Ramsey, Wycliffe H., Ag.	DeLand
Rankin, Christine P., Ed.	Bristol
Rasmussen, Gene Scott, Ed.	W. Palm Beach
Raulerson, Annabel, Ed.	Waldo
Raulerson, Isabel Louise, Ed.	Waldo
Raulerson, Mrs. Lois R., (H.B.), Ed	Gainesville
Ray, Hugh McCormick, A&S.	Ocala
Read, Alice Margaret, Ed.	New Smyrna
Read, Paul Charles, Ed.	Quincy
Redding, Mrs. Evelyn Lofton, (J.W.), Ed	Summerfield
Reed, Alfred C., Ed.	Gainesville
Reed, Elizabeth Woodworth, Ed.	Jacksonville
Reeder, William Richey, L.	Miami
Reese, Alta Ruth, A&S.	Sarasota
Reid, Bert S., Ed.	Hastings
Reid, Gordon Kelley, C&J.	St. Petersburg
Reid, John William, Ed.	Ocoee
Reid, Mrs. Miriam Stanford, (J.W.), Ed	Ocoee
Rencher, Mrs. Mamie Lee, (W.O.), Ed	Winter Park
Rencher, Robert C., Ed.	Apopka
Reuther, Walter, A&S.	Seffner
Revell, Beulah Elizabeth, Ed.	Wauchula
Rhoden, Lola C., Ed.	Macclenny
Rhoden, Sparta L., Ed.	Macclenny
Rhodes, Francis Arlie, G.	Woodville
Rice, Mrs. Ora Stamps, (A.F.), Ed.	Orlando
Rice, Owen, G.	Orlando
Richards, Allie, Ed.	Quincy
Richardson, Pauline, Ed.	Jacksonville

<i>Name and Classification</i>	<i>Address</i>	<i>Name and Classification</i>	<i>Address</i>
Ridenour, Mrs. Marie Janet, (B.F.), Ed	Gainesville	Schauberger, Goldie W., C&J	Punta Gorda
Rigby, Wm. Clinton, Ed	McDavid	Schell, Hannah Rebecca, G.	Ft. Myers
Riker, Vera Edwina, Ed	Sparr	Schuh, Charles J., A&S	St. Petersburg
Rinkel, Diza Mae, Ed	Fort Myers	Schwab, Walter H., C&J	Miami
Rippey, Andrew Douglas, G.	Gainesville	Schwartz, Ben, C&J	St. Petersburg
Rippey, Wilson B., Ed	Gainesville	Schwartz, Harold C., L.	Jacksonville
Rivers, Marion, Ed	Lake Butler	Scott, John Marcus, Eng.	Gainesville
Rivers, Thomas H., Ag	Alachua	Scott, Kathryn Virginia, Ed.	St. Petersburg
Roberts, A. Knight, Ed	Jacksonville	Scott, Russell Morgan, C&J	Sebring
Roberts, Mrs. Clara Maude, (D.H.), Ed	Crawfordville	Scott, Tommie Lee, Ag	Trenton
Roberts, D. H., Ed	Crawfordville	Scott, Wilbur Adelbert, Ed.	Orange City
Roberts, Emmett Smith, C&J	Jacksonville	Seagraves, Eunice Louise, A&S	Macclenny
Roberts, George Carl, G.	Trenton	Sealey, Eula Yvonne, Ed.	Alachua
Roberts, Mrs. Montine, Ed.	Mount Dora	Seay, Margaret, Ed.	Gainesville
Roberts, N. E., Ed.	Lake Butler	Seed, Ruth Elizabeth, Ed.	Daytona Beach
Roberts, Wm. Harold, G.	Homestead	Segal, Martin, C&J	Orlando
Robertson, Mrs. Isla Mae, (R.H.), Ed	Live Oak	Semmes, Sarah Harrison, Ed.	Tampa
Robinson, Anniebelle, Ed.	E. Palatka	Sensabaugh, Mrs. Effie Reeve, (C.L.), Ed	Winter Haven
Robinson, Carolyn Adelaide, Ed.	Miami	Settle, Lucy Belle, G.	Gainesville
Robinson, James Harold, Ed.	Palmetto	Sewell, Dorothy Goodwyn, Ed.	DeLand
Robinson, Marjorie B., C&J	Gainesville	Sewell, Robert Oliver, G.	Gainesville
Robinson, Mrs. Mary N., (O.T.), Ed.	Melrose	Shackelford, Vernelle, Ed.	Hicoria
Robinson, Nellie May, Ed.	Seville	Shaddick, William Thomas, Ag.	Lady Lake
Robinson, Reda, Ed.	E. Palatka	Shaw, Mrs. Bertha Mae, (W.H.), Ed.	Raiford
Roch, Carl H., Ed.	Tampa	Shaw, Mrs. Essa Davidson, (R.C.), Ed	Waldo
Rochester, Morgan C., G.	Salem, S. C.	Shaw, Jeannette, G.	Gainesville
Rogers, Mildred C., Ed.	Chiefland	Shaw, William Henry, G.	Raiford
Rogers, Ethel Mae, Ed.	Lynne	Sheldon, Mary Jane, Ed.	St. Petersburg
Rogers, Lewis H., Ed.	DeFuniak Spgs.	Shelton, Virgie, A&S	Cocoa
Rogers, Mitchell Calvin, C&J	St. Petersburg	Shepard, Clyde Russell, Ag.	Gainesville
Ross, Anna Frances, Ed.	W. Palm Beach	Shepard, Mrs. Katherine Prime, (W.F.), G	Sarasota
Ross, James Daniel, Ed.	Live Oak	Sheppard, Beatrice, Ed.	Apopka
Ross, Ola, A&S	Apopka	Sheppard, Mrs. Kate Belle, (T.H.), Ed	Ocoee
Rothfuss, Marion B., Ed.	Bradenton	Sheppard, Mary Bodiford, A&S	Bradenton
Rou, H. Jennings, Ed.	Reddick	Sherard, Hoyt, G.	Graham, Ala.
Rowe, Frank A., Ed.	Tarpon Spgs.	Shinholser, Albert Edwin, A&S	Sanford
Rowe, Mrs. Julia Whiteford, Ed.	Benson Spgs.	Shivers, Sue, Ed.	Plant City
Rowell, Mrs. Bess W., (J.C.), Ed.	Trenton	Shapiro, Joseph Gerald, L.	Miami Beach
Rowell, John Orian, G.	Gainesville	Shotwell, Florence, Ed.	Palm City
Rowell, John Theron, G.	Perry	Shoulders, Mrs. Belle M., (E.E.), Ed	Wauchula
Royce, Wilbur E., Ed.	Lake Worth	Shuman, Mrs. Pearle Groom, (W.T.), Ed	Gainesville
Rubin, Raymond R., Ag.	Jacksonville	Sieg, Mrs. Mayme F., (W.L.), Ed.	Geneva
Rucker, Walter Lee, Ed.	Cocoa	Sieg, Willie Lee, Ed.	Geneva
Ruff, Donald S., C&J	Gainesville	Sigman, Edmund Ball, L.	Lake Worth
Rushing, Catherine, C&J	Weirsdale	Sikes, Mrs. Annie Pennell, (H.B.), Ed	Grandin
Russ, Mrs. Ha C., (F.G.), Ed.	St. Petersburg	Sikes, Cora Viola, Ed.	Palmetto
Russell, Roy William, Ed.	Tampa	Sikes, Grace Olis, Ed.	Palmetto
Ryan, Jeanette Mazie, Ed.	St. Augustine	Sikes, Mrs. Thelma, (J.C.), Ed.	Bonifay
Ryan, Mrs. L. Deborah Hurlbut, (A.F.), Ed	Jacksonville	Silverman, Millie Gertrude, Ed.	Tampa
Sadler, G. G., A&S	Mt. Dora	Silverthorne, Mrs. Caroline R., (H.D.), Ed	Tampa
Saffold, Beulah, Ed.	Wimauma	Simmons, Dibrell James, A&S	Arcadia
Sanders, Mrs. Florence W., (W.H.), Ed	Pomona	Simmons, Hugh C., A&S	Archer
Sanders, Wilson, Ed.	Waupoca, Wis.	Simonton, Lillian, Ed	Live Oak
Sansburg, Walter Ewing, G.	West Palm Beach	Simpson, Dot Kay, Ed.	High Springs
Sapp, Gertrude Elizabeth, Ed.	Bell	Sims, Charles Ousley, Jr., Ed.	Miami
Sapp, Nita, Ed	Hicoria	Sims, Leona Victoria, Ed.	Branford
Sasnett, Carl Powers, C&J	Jacksonville	Singletary, George Lee, L.	Kissimmee
Sasnett, Henry Harris, Ed.	Jacksonville	Sister Maria Agnita, A.	Fernandina
Sauls, Charles E., Ed.	Tallahassee	Sister M. Alberta, Ed.	Jacksonville
Saunders, Mrs. Sallie J., (W.N.), Ed.	Tampa	Sister M. Newman Annunciata, Ed.	San Antonio
Savage, Charlotte K., Ed.	Lake Butler	Sister M. Brendan, G.	Jacksonville
Savage, Zach, G.	Gainesville	Sister Maertens Caroline, Ed.	San Antonio
Scharfschwerdt, Mrs. Adelaide, (O.), Ed	Ft. Pierce	Sister M. Chrysostom, Ed.	St. Augustine

<i>Name and Classification</i>	<i>Address</i>	<i>Name and Classification</i>	<i>Address</i>
Sister M. Clementins, Ed.	St. Augustine	Stageberg, Marcelle G., Ed.	Gainesville
Sister M. Constance, Ed.	Miami	Stalvey, Lillie, Ed.	Branford
Sister Ethelreda Swikrath, A.	Adrian, Mich.	Standley, Graynella Ethel, Ed.	Gainesville
Sister Mary Evangelista, Ed.	St. Augustine	Stanley, Carl, Ed.	Baker
Sister Marie Fidelis, Ed.	Jacksonville	Stanly, George Booth, Ed.	Gainesville
Sister Mary Finbarr, Ed.	Miami	Starbird, Marguerite, Ed.	Apopka
Sister Mary Kevin, Ed.	Miami	Starr, Mrs. Carrie Brantley (E.L.), Ed.	Clermont
Sister Mary Leona Brozan, Ed.	West Palm Beach	Starratt, Mrs. Ruth Brown, (C.C.), Ed.	Jacksonville
Sister M. Mercedes, Ed.	St. Augustine	Stephenson, Mrs. Nettie Eloise, (C.G.), Ed.	Babson Park
Sister Mary Monica, G.	Coral Gables	Stevens, Andrew J., Ed.	Marianna
Sister Mary Norberta, Ed.	St. Augustine	Stevens, Billie Knapp, Ed.	Marianna
Sister Rita Therese Weaver, Ed.	West Palm Beach	Stevens, Mrs. Ethel Bell, Ed.	Orlando
Sister M. Rose de Lima, A&S.	St. Augustine	Stevens, Georgie L., Ed.	Orlando
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Sister Mary Theophane, Ed.	St. Augustine	Stickle, Lucile, Ed.	W. Palm Beach
Sister M. Vincent, Ed.	St. Augustine	Stickle, Nils H., Ed.	Orlando
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Skinner, Evelyn Van, Ed.	Archer	Stoops, Mrs. Ora Lee, (C.L.), Ed.	Umatilla
Sledge, Mildred C., Ed.	So. Jacksonville	Storter, Majorie Florine, Ed.	Fort Myers
Smedley, Mayme E., Ed.	St. Petersburg	Strachan, Mrs. Clyde Richards, (N.S.), Ed.	Tampa
Smith, Charles A., Ed.	Reddick	Stulpner, Bertha May, Ed.	Fort Myers
Smith, Mrs. Clarice Yeoman (A.H.), Ed.	So. Jacksonville	Sturges, Wilton, Jr., A&S.	Gainesville
Smith, Daisy R., Ed.	Tampa	Sturm, G. W., L.	Sarasota
Smith, Daniel Edward, Ed.	Palatka	Sullivan, Hardy A., C&J.	Winter Garden
Smith, Dorothea H., Ed.	Gainesville	Summerlin, Wm. Alexander, Ed.	Ft. Pierce
Smith, Edmond R., Ed.	Pahokee	Summitt, Dana, Ed.	Shamrock
Smith, Eula Seidell, Ed.	O'Brien	Sutton, Gladys, Ed.	DeFuniak Spgs.
Smith, Everett Levy, C&J.	Micanopy	Sutton, Richard D., C&J.	Jacksonville
Smith, Foster Shi, G.	Hawthorne	Sweat, George Carroll, Ed.	Live Oak
Smith, Herman Guy, Ed.	Chiefland	Sweat, LaVada Virginia, Ed.	Live Oak
Smith, Heyburn Dale, G.	Oneco	Sweat, Nelda Mae, Ed.	O'Brien
Smith, James Pierce, A&S.	Micanopy	Sweat, Sam David, Ed.	O'Brien
Smith, J. Wallace, Ed.	Wauchula	Sweat, Thomas Wm., Ed.	Live Oak
Smith, Josephine, C&J.	High Springs	Sweat, Mrs. Virginia Elizabeth, (T.W.), Ed.	Live Oak
Smith, Mrs. Maude Lewis, (H.D.), Ed.	High Springs	Swords, Mary Ellen, Ed.	Gainesville
Smith, Mrs. Olive Edith, (F.H.), Ed.	Oak	Syffrett, Helena May, Ed.	Orange Park
Smith, Otis E., Ag.	Bradenton	Syffrett, Jesse M., Ed.	Gainesville
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Smith, Rhett Acker, A&S.	Sanford	Tally, Emmett M., A&S.	Tavares
Smith, Mrs. Ruby H., (J.M.), Ed.	Reddick	Tally, L. Cottrell, A&S.	Tavares
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Smith, Thomas John, C&J.	Miami	Taylor, Carney H., C&J.	Plant City
Smith, Virginia K., Ed.	Ocala	Taylor, Henry Hamilton, A&S.	Miami
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Somers, Emma May, Ed.	Holly Hill	Thomas, Elma, Ed.	Green Cove Spgs.
Sparkman, Agnes, Ed.	Port Orange	Thomas, Mrs. Evelyn Stone, Ed.	Palatka
Sparkman, Bascome Walden, A&S.	Plant City	Thomas, J. Harry Preston, G.	Palatka
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Spring, Edwin Alfred, Ed.	Lakeland	Thompson, Mrs. Beatrice Pearle, (H.S.), Ed.	Perry
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Stafford, Mrs. Bessie Minor, Ed.	Tampa	Thompson, Henry Solomon, Ed.	Perry
Stafford, Mrs. Margaret M., (J.A.), Ed.	Coleman	Thompson, L. Lawrence, G.	Panama City
		Thompson, Robert Alden, Eng.	Miami
		Thomson, Anna Blair, Ed.	Gainesville
		Thomson, Mrs. Lucretia Dorsey, (H.A.), Ed.	Gainesville

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Thorpe, Janie Missouri, Ed.	Wimauma	Warriner, Mrs. Agnes Powell, Ed.	St. Petersburg
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Timmons, Flora Alice, Ed.	Ocala	Wasdin, John Alvin, Ed.	Graham
Tipton, Mary Lucilia, Ed.	Tampa	Wasson, Mrs. Lacy Fenwick, (H.R.), Ed.	Ocala
Tison, Mrs. Eugenia, (W.M.), Ed.	Parrish	Waters, Eva, Ed.	Pensacola
Tolbert, Kate Woodward, C&J.	Gainesville	Watkins, Mrs. Caroline B., Ed.	Micanopy
Tompkins, Beatrice Irene, Ed.	Center Hill	Watkins, Verna Margaret, Ed.	San Antonio
Tompkins, Chloe, Ed.	Wildwood	Watson, James Baker, L.	Pensacola
Tomyn, Annie, Ed.	Winter Garden	Watson, James Franklin, Ed.	Milton
Tomyn, William, Ed.	Ocoee	Watson, Lucile C., Ed.	Mascotte
Toph, Guy W., Ed.	Tampa	Watson, Mrs. Annie Helen, (C.M.), Ed.	Coleman
Touhton, Charles Floyd, A&S.	DeLand	Weaver, Wade, Ed.	Emory, Va.
Townsend, Virgil L., Ed.	Pine Castle	Webb, Herbert Mitchell, A&S.	Gainesville
Tranham, Beatrice Mary, Ed.	Sulphur Spgs.	Webb, Mrs. Iva Riker, (T.R.), Ed.	Sparr
Trapnell, Carl Fred, C&J.	Plant City	Webb, Mrs. Janie Feagin, (R.G.), Ed.	Tampa
Tribble, Elizabeth, Ed.	Pt. Lauderdale	Webb, Mahlon Roy, G.	Lakeland
Trombetta, Felicia, Ed.	Miami	Weekley, Margaret Miner, Ed.	Tampa
Troxler, Charles Elston, C&J.	Ocala	Weeks, Betty Lou, Ed.	Newberry
Troxler, John Wallace, C&J.	Ocala	Weeks, George Edgar, C&J.	St. Petersburg
Troxler, Lanas Farlin, A&S.	Ocala	Weeks, Madelaine M., Ed.	Trenton
Tubbs, William R., A&S.	Orlando	Weeks, W. T., Ed.	Newberry
Tully, Albert Paul, Ed.	Tallahassee	Welborn, Elizabeth Charles, G.	Jacksonville
Turlington, Francis William, C&J.	Gainesville	Welch, Columbus F., Ed.	Marianna
Turner, Elsie Augusta, Ed.	Leesburg	Welch, Mrs. Cordie Vera, (L.B.), Ed.	Jacksonville
Turner, Nell Elizabeth, Ed.	Coleman	Welles, Benjamin Franklin, Jr., C&J.	Arcadia
Upson, Mrs. Ruth Newell, Ed.	Jacksonville	Wells, Evelyn J., Ed.	Eureka
Uren, Gertrude, Ed.	Cartersville, Ga.	Wells, Martha Elizabeth, Ed.	Jacksonville
VanArsdall, Howard Elmer, Ag.	Winter Haven	Welsh, Zillah Neal, Ed.	Sanford
VanHouten, Mrs. Roberta Ware, (B.B.), Ed.	W. Palm Beach	Weseman, Mrs. Alice W., (W.), Ed.	Florahome
VanOrmer, Helen Jeannette, Ed.	Green Cove Springs	Westbury, David Smith, G.	Gainesville
Varnes, Clifford Lucille, Ed.	Jacksonville	Westbury, Harry E., Ed.	Gainesville
Vassi, J. E., Eng.	Mulberry	Wheeler, Burcon K., Ed.	Hawthorn
Vaughan, Marie Elizabeth, Ed.	Center Hill	Whidden, Mrs. Anna, Ed.	Arcadia
Vaughan, Sarah, Ed.	Center Hill	Whigham, Fred N., Ed.	Marianna
Vaughn, Margaret M., G.	Williamson, Ga.	Whipple, Maggie, Ed.	Bonifay
Vickers, Madilene, Ed.	Okeechobee	Whitaker, Dorothy Mae, Ed.	Ocoee
Vincent, Nada, Ed.	Lecanto	Whitcomb, Mrs. Kathleen C., (M.G.), Ed.	Tarpon Springs
Vincent, Wirt Jackson, Ed.	Lecanto	White, Hazel Lois, Ed.	Chiefland
Vinson, Raymond A., Ed.	Greenville	White, Ruth, G.	Gainesville
Waddy, Evelyn Elizabeth, Ed.	Elfers	White, Mrs. Tina Carolyn, (C.E.), Ed.	St. Petersburg
Waddy, Talitha Elaine, Ed.	Elfers	Whitehead, Ruth Hester, Ed.	Hollister
Waggoner, James Edward, Ed.	Orlo Vista	Whitfield, Mrs. Thekla Aileen, (C.H.), Ed.	O'Brien
Wahlberg, J. F., Ed.	Orlando	Wiggert, Dohren William, Eng.	Gainesville
Wainwright, Mrs. Grace Alma, (N.D.), Ed.	Starke	Wiggins, Mrs. Lillie Norris, (S.D.), Ed.	Fort Pierce
Waits, Zell, Ed.	Ocoee	Wilber, Marie M., Ed.	Alachua
Wakefield, George Norton, G.	Homestead	Wilby, Ann, Ed.	Lake City
Wakefield, John Wesley, Eng.	Apalachicola	Wilder, Mrs. Marilu, (E.W.), Ed.	Tampa
Waldron, Bessie Lee, Ed.	Chiefland	Wiley, Mrs. Florence Lane, (W.A.), A&S.	Jacksonville
Waldron, Jesse C., Jr., Ed.	Chiefland	Wilkerson, Sarah Elizabeth, Ed.	Jacksonville
Walker, Jessie Inez, Ed.	Waldo	Wilkins, Mrs. Nellie Waldron, (J.A.), Ed.	Bradenton
Walker, Solomon Lloyd, Ed.	Perry	Will, George Arthur, Ag.	Keystone Heights
Walker, William Powell, Eng.	Ft. Myers	Willard, T. H., Ag.	Alachua
Wall, Mrs. Harriette Anderson, (R.H.), Ed.	Cocoa	Williams, C. M., G.	Trenton
Wallace, Madge Victoria, Ed.	Jacksonville	Williams, David E., C&J.	Hawthorn
Wallace, Minnie Hazel, Ed.	Winter Haven	Williams, D. G., A&S.	Tampa
Walsh, Stephen Eldon, Ed.	Hardford, Conn.	Williams, Edwin L., Ed.	Bellevue
Walsingham, Jack Laurence, A&S.	Tampa	Williams, Edwin Lacy, G.	Fort Meade
Walter, Flora Eveline, Ed.	Orlando	Williams, Mrs. Evelyn Ennis, (A.D.), Ed.	Gainesville
Wamble, Minnie Lee, Ed.	Tice	Williams, Frances Elna, Ed.	Fort White
Wann, John Levi, G.	Gainesville	Williams, George B., Ed.	Monticello
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Wansker, Harry Robert, C&J.	Jacksonville		
Warren, Bertha Estelle, Ed.	Palmetto		
Warren, J. Farley, Jr., A&S.	Apalachicola		
Warren, Julian, Ed.	Gainesville		

<i>Name and Classification</i>	<i>Address</i>	<i>Name and Classification</i>	<i>Address</i>
Williams, H. Agnew, Ed	Live Oak	Wishart, James F., Jr., C&J	Gainesville
Williams, Hettie Ruth, A&S	Perry	Witt, Frederick Kent, Ed	Lake City
Williams, Inez, Ed	Malone	Wiygul, R. B., C&J	Winter Garden
Williams, Kathryn Anne, Ed	Hawthorn	Wohl, Mrs. Anna J. E., (S.), Ed	Tampa
Williams, Lilly Mae, Ed	Dunnellon	Woodruff, Hiram T., Ed	Hawthorne
Williams, Lois Virginia, Ed	Ft. Pierce	Woods, Bessie, Ed	Wauchula
Williams, Loys Helgah, Ed	Tampa	Woods, James P., Ed	Perry
Williams, Mrs. Maggie, (C.M.), Ed	Trenton	Woodwell, Mrs. Ruth Adams, Ed	Madison
Williams, Mrs. Sadie Mae, (Geo.W.), Ed	Lake City	Woolslair, John Kneeland, L.	Fort Myers
Williams, Mrs. Susie, (G.A.), Ed	Chiefland	Wright, Mrs. Shelley K., (P.B.), Ed	Lem Turner
Williamson, Mrs. Eleanor W., (J.A.), Ed	Comer, Ala.	Wurm, Leon, A&S	Jacksonville
Williamson, H. Edward, Ed	Tallahassee	Wynne, Mrs. Virginia Bryan, (C.W.), Ed	Micanopy
Willis, Susie Betty, Ed	New Smyrna	Yancey, Mrs. Catherine William, (W. B.), Ed	Umatilla
Willoure, Mrs. Annie Holding, (J.C.), Ed	E. Palatka	Yancey, Charles Bernard, L.	Umatilla
Wilson, Clyde Herbert, L.	Sarasota	Yaun, Frank D., Ag	Cocoa
Wilson, Delman Grant, A&S	Tampa	Yedvob, Reuben Carl, Ed	Meriden, Conn.
Wilson, Millard Fillmore, Ed	Jacksonville	Yobst, Annalyne Mary, Ed	Fort Myers
Wilson, N. Walker, C&J	Ocala	York, Mrs. Loula V., (J.R.), Ed	Pahokee
Wilson, Osburn Carlyle, Ed	Tampa	York, Mrs. Velta F., (E.H.), Ed	Jacksonville
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Wilson, Wesley W., A&S	Tampa	Young, Evelyn Elizabeth, Ed	Ocala
Windham, Edward F., C&J	Tampa	Young, Lula E., Ed	Bushnell
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Wingate, Homer, C&J	McIntosh	Young, Mattie E., Ed	Tampa
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Wirt, M. Annette, Ed	Dade City	Zipperer, Mrs. Mabel, Ed	Madison

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COUNTIES

Alachua	294
Baker	1
Bay	17
Bradford	12
Brevard	30
Broward	26
Calhoun	5
Charlotte	7
Citrus	8
Clay	16
Collier	1
Columbia	18
Dade	208
DeSoto	17
Dixie	2
Duval	276
Escambia	55
Flagler	4
Franklin	5
Gadsden	21
Gilchrist	14
Glades	0
Gulf	4
Hamilton	7
Hardee	16
Hendry	2
Hernando	9
Highlands	12
Hillsboro	265
Holmes	5
Indian River	5
Jackson	17
Jefferson	10
LaFayette	4
Lake	70
Lee	20
Leon	48
Levy	8
Liberty	5
Madison	9
Manatee	36
Marion	59
Martin	5
Monroe	17
Nassau	11
Okaloosa	6
Okeechobee	3
Orange	109
Osceola	21
Palm Beach	89
Pasco	20
Pinellas	110
Polk	115
Putnam	17

COUNTIES

St. Johns	24
St. Lucie	18
Santa Rosa	6
Sarasota	24
Seminole	25
Sumter	9
Suwanee	12
Taylor	7
Union	7
Volusia	54
Wakulla	4
Walton	15
Washington	10

STATES

Alabama	6
Arkansas	1
Connecticut	7
District of Columbia	2
Florida	2386
Georgia	8
Illinois	10
Indiana	3
Iowa	1
Kansas	1
Kentucky	7
Maine	1
Massachusetts	9
Michigan	6
Minnesota	2
Mississippi	3
Montana	1
Nebraska	1
New Jersey	16
New York	24
North Carolina	2
North Dakota	1
Ohio	11
Oregon	1
Pennsylvania	14
South Carolina	8
South Dakota	2
Tennessee	4
Texas	2
Vermont	1
Virginia	4
West Virginia	2

COUNTRIES

Cuba	4
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Peru	2
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COUNTIES		COUNTIES	
Alachua	268	Osceola	9
Baker	12	Palm Beach	32
Bay	10	Pasco	19
Bradford	7	Pinellas	69
Brevard	21	Polk	57
Broward	7	Putnam	23
Calhoun	3	St. Johns	24
Charlotte	3	St. Lucie	10
Citrus	13	Santa Rosa	9
Clay	14	Sarasota	19
Collier	1	Seminole	20
Columbia	27	Sumter	30
Dade	59	Suwanee	38
DeSoto	8	Taylor	13
Dixie	9	Union	17
Duval	147	Volusia	58
Escambia	17	Wakulla	4
Flagler	7	Walton	5
Franklin	5	Washington	3
Gadsden	5		
Gilchrist	23	STATES	
Glades	1	Alabama	3
Gulf	2	Connecticut	3
Hamilton	6	Florida	1652
Hardee	17	Georgia	11
Hendry	4	Illinois	2
Hernando	1	Iowa	1
Highlands	11	Kentucky	2
Hillsboro	136	Michigan	2
Holmes	13	Minnesota	1
Indian River	1	Montana	1
Jackson	19	New Jersey	2
Jefferson	15	New York	1
Lafayette	2	North Carolina	3
Lake	43	North Dakota	1
Lee	19	Ohio	1
Leon	12	South Carolina	2
Levy	22	Tennessee	1
Liberty	4	Virginia	1
Madison	11	Washington	1
Manatee	29	West Virginia	1
Marion	64	Wisconsin	1
Martin	3		
Monroe	9	COUNTRIES	
Nassau	6	Cuba	1
Okaloosa	7	Palestine	2
Okeechobee	1	Poland	1
Orange	69	Not Given	3

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MASTER OF SCIENCE IN AGRICULTURE

Paul Douglas Camp, B.S. in Agriculture, University of Florida, 1919
 Major: Animal Husbandry Minor: Education
 THESIS: "Methods of Managing Range Cattle in Alachua County, Florida."

MASTER OF ARTS IN EDUCATION

*Burton Weber Ames, B.S. in Agriculture, University of Florida, 1923
 Major: Education Minor: Philosophy
 THESIS: "A Study of Correspondence Instruction Based on Eleven Years of
 University Extension at the University of Florida."

*Albert James Geiger, B.S. in Agriculture, University of Florida, 1923
 Major: Education Minors: Agricultural Engineering and Horticulture
 THESIS: "A Study of the Farm Shop Instruction in the Vocational Agriculture
 Schools of Florida."

*Member Phi Kappa Phi Honor Society.

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CERTIFICATES IN LIEU OF COMMISSIONS

FIELD ARTILLERY

Robert Louis Crownover.....*Coral Gables*

INFANTRY

Joseph Brown Farrior*Tampa* Andrew Douglas Rippey *Gainesville*

SECOND LIEUTENANT, CHEMICAL WARFARE—RESERVE

Wesley Jenkins Alonzo *Gainesville*

SECOND LIEUTENANT, FIELD ARTILLERY—RESERVE

John Merton Barnum	<i>Miami</i>	Joseph David Morgan, Jr.....	<i>Jacksonville</i>
David Crenshaw Barrow, Jr.....	<i>DeSoto City</i>	Marshall Clemson Musser, Jr.	<i>St. Petersburg</i>
Stuart Craig Bell	<i>Barberville</i>	John Stephens Neel	<i>High Springs</i>
Robert Bates Cole	<i>Gainesville</i>	William Geddes Perry	<i>Miami</i>
Wilson Reese Collins	<i>Fort Meade</i>	Clarence Elmer Pheil	<i>St. Petersburg</i>
Judson Bennett DeLoach	<i>Lakeland</i>	Harold F. Priester	<i>Lake Buena Vista</i>
Richard Emmanuel Dresbach.....	<i>Fort Lauderdale</i>	James Andrew Ramsey.....	<i>Blountstown</i>
Herbert Russell Gaylord	<i>Tampa</i>	Lewis William Robinson, Jr.....	<i>Coral Gables</i>
Joseph Tilden Hall, Jr.....	<i>Hollywood</i>	Ernest Pleasant Robuck	<i>Orlando</i>
Charles Herminghaus	<i>Mims</i>	Howard Roy Rybolt	<i>Orlando</i>
Levi Mott Johnson	<i>Miami</i>	Paul Theodore Selle.....	<i>West Englewood, N. C.</i>
Dick Woodson Judy	<i>Tampa</i>	Robert Wilson Stewart	<i>Leesburg</i>
Emerson Martin Keeler	<i>Miami</i>	Robert Wm. Wilkinson, Jr.	<i>Jacksonville</i>
Joseph Lancelot Lazonby	<i>Fort Lauderdale</i>	John Charles Workizer	<i>St. Petersburg</i>
Mills Minton Lord, Jr.....	<i>Sanford</i>	Chester Robert Yates	<i>Plant City</i>

SECOND LIEUTENANT, INFANTRY—RESERVE

Elisha Gunter Akin, Jr.....	<i>Winter Park</i>	Gilmer McCrary Heitman, Jr.	<i>Ft. Meade</i>
Oliver Bond Collier	<i>Tampa</i>	William Longley Johnson	<i>Key West</i>
Donald Herbert Conkling, Jr.,	<i>West Palm Beach</i>	John Middleton Lyell	<i>Miami</i>
John Robert Cordell, Jr.	<i>Arlington</i>	George Black Mehlman	<i>Jacksonville</i>
Darrey Adkins Davis	<i>Miami</i>	Hansford Duncan Padgett, Jr.	<i>Ruffin, S. C.</i>
William Arthur Davis	<i>Frostproof</i>	Robert William Pedersen	<i>Baroness</i>
Eugene Bryan Duncan	<i>Summerfield</i>	Myron Chalker Prevatt	<i>Jacksonville</i>
Edgar Allen Emmelhainz	<i>Bradenton</i>	Homer Hoston Seay, Jr.	<i>Charleston, W. C.</i>
Nick Joseph Falsone	<i>Tampa</i>	Arthur Polhill Small	<i>Jacksonville</i>
William McCague Ferguson	<i>Orlando</i>	Kenneth Hartman Smith	<i>Lakeland</i>
John Logan Fisher	<i>Tampa</i>	William Jordan Smith	<i>Winter Haven</i>
George Doane Freeman III.....	<i>St. Augustine</i>	Allen William Spencer	<i>Pittsfield, Mass.</i>
George Bruce Hamilton	<i>Tampa</i>	Robert Fryer Underwood	<i>Miami</i>
Charles Hamilton Walker	<i>Pensacola</i>		

THE NORMAL DIPLOMA

Richard Griffin Banks IV	<i>Lake Worth</i>	James Gordon Horrell	<i>Orlando</i>
Joseph C. Bondi	<i>Tampa</i>	Albert Aloysius Lagano	<i>Gainesville</i>
Barney Julian Burnett	<i>Jacksonville</i>	Dana Temple Leitch	<i>Lynn Haven</i>
William LeFils Charles	<i>Jacksonville</i>	Ateo Philip Leto	<i>Tampa</i>
Athel Crowson	<i>Milton</i>	Albert Kendall Levinstein	<i>Miami Beach</i>
Roy Edwin Hope	<i>Leesburg</i>	Frederick R. Reynolds	<i>Tallahassee</i>
Frederick Kent Witt	<i>Lake City</i>		

DEGREES AND DIPLOMAS CONFERRED—Continued

GRADUATE IN PHARMACY

Thomas Council Fletcher, Jr.	<i>Williston</i>	James Edgar Katsch	<i>Miami</i>
Coee Bush Henderson	<i>Elfers</i>	E. M. Mallory	<i>Orlando</i>
Hard Sadler Johnson	<i>Gainesville</i>	H. Dale Roth	<i>Gainesville</i>
John W. Thomas		<i>High Springs</i>	

BACHELOR OF SCIENCE IN ARCHITECTURE

de Eugene Harris	<i>Jacksonville</i>	John M. Lyell	<i>Miami</i>
Eneth E. Hazledine	<i>St. Petersburg</i>	Wilbur Kenneth Miller	<i>Orlando</i>
Franklin P. Langbehn	<i>Miami</i>	Sanford Harvey Pendergrass.....	<i>Macon, Ga.</i>

BACHELOR OF SCIENCE IN JOURNALISM

son Bennett DeLoach	<i>Lakeland</i>	Wesley Benjamin Jackson	<i>West Palm Beach</i>
Donald W. Forsyth.....	<i>Pensacola</i>	Hans Rolff Johansen.....	<i>Clearwater</i>

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION

ston Eugene Arnow	<i>Gainesville</i>	Charles Cooper Hewitt.....	<i>Muskegon, Mich.</i>
alter Blaisdell Bell	<i>Daytona Beach</i>	Lyle Steven Hiatt	<i>Jacksonville</i>
bert Carver Black, Jr.	<i>Plant City</i>	Richard Alfred Mack	<i>Miami Beach</i>
ald Gregory Bradshaw	<i>San Antonio</i>	Conrad B. Mahaffy	<i>Jacksonville</i>
B. Collier	<i>Tampa</i>	Marion Meffert	<i>Lowell</i>
on Winthrop Crews	<i>Zolfo Springs</i>	Robert William Pedersen	<i>Bartow</i>
ward J. Cohen	<i>Jacksonville</i>	Raymond S. Risien	<i>Jacksonville</i>
eph Irving Davis	<i>Miami</i>	Carlos L. Russell	<i>Miami</i>
liam Arthur Davis	<i>Frostproof</i>	Harold Douglas Sammons	<i>Tampa</i>
arles Julius Dreblow	<i>Monticello</i>	Harold Frederick Seasted, Jr.....	<i>Jacksonville</i>
ber Dale Earle	<i>Ocala</i>	Paul Theodore Shafer	<i>W. Englewood, N. J.</i>
ark Wilson Eastland, Jr.....	<i>Tampa</i>	Paul LaMarr Shafer	<i>N. Judson, Ind.</i>
liam Edwards	<i>Ocala</i>	Fred Wright Slaughter	<i>Palmetto</i>
gar Allen Emmelhainz	<i>Bradenton</i>	Platt T. Smith	<i>Mulberry</i>
liam McCague Ferguson	<i>Orlando</i>	Ira W. Strickler, Jr.	<i>Miami</i>
n Logan Fisher	<i>Tampa</i>	Marion Reeves Underhill	<i>Barberville</i>
id Bartlett Frye	<i>Tampa</i>	*Robert Clinton Unkrich	<i>Daytona Beach</i>
rge Bruce Hamilton.....	<i>Tampa</i>	Charles Hamilton Walker	<i>Pensacola</i>
old Albert Hamm	<i>Gainesville</i>	Harry C. Warnock	<i>Jacksonville</i>

BACHELOR OF SCIENCE IN PHARMACY

Hard Sadler Johnson	<i>Gainesville</i>	*Kenneth Hartman Smith	<i>Lakeland</i>
Adolph Lee Kiser	<i>Key West</i>	John W. Thomas	<i>High Springs</i>

BACHELOR OF SCIENCE IN HEALTH AND PHYSICAL EDUCATION

Jesse L. Turner	<i>Miami</i>
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BACHELOR OF ARTS IN HEALTH AND PHYSICAL EDUCATION

id Byron King	<i>Eustis</i>	Broward McClellan	<i>Blountstown</i>
Frank Excell Philpott, Jr.	<i>Saint Cloud</i>		

BACHELOR OF SCIENCE IN AGRICULTURAL EDUCATION

rence Leroy Dickinson	<i>Hawthorn</i>	Jesse C. Waldron, Jr.	<i>Chiefland</i>
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*Member Phi Kappa Phi Honor Society.

DEGREES AND DIPLOMAS CONFERRED—Continued

BACHELOR OF SCIENCE IN EDUCATION

James Lorin Bilderbeck	<i>Newberry</i>	Saul Kasile Feit	<i>Gaines</i>
E. Odell Carlton ..	<i>Wauchula</i>	Homer L. Jones	<i>DeFuniak Spr</i>
Carroll Warren Wilkinson		Hastings	

BACHELOR OF ARTS IN EDUCATION

George Wesley Atkins ..	<i>Blountstown</i>	Selwyn C. Ives	<i>Lake</i>
Willard Wood Ayres ..	<i>Miami</i>	Mills Minton Lord, Jr.	<i>San</i>
Vaniah Harmer Baldwin ..	<i>St. Petersburg</i>	*Albert Clement Manucy	<i>St. August</i>
Randolph Wilson Boyd ..	<i>Jacksonville</i>	Joseph David Morgan, Jr.	<i>Ja</i>
*James Theodore Campbell, Jr.	<i>Zephyrhills</i>	H. F. Priester II	<i>Lake Bu</i>
Jerry Williams Carter, Jr.	<i>Tallahassee</i>	*Mitchell Milton Rosenberg	<i>Daytona B</i>
Neil Simpson Cheney ..	<i>Gainesville</i>	*Charles Alfred Stansfield	<i>Wauc</i>
Vernon Wilmot Clark ..	<i>Braudenton</i>	Francis Edwin Stafford Turner	<i>St. Petersh</i>
*Ronald John Cutler ..	<i>DeLand</i>	J. Pasco Woods	<i>P</i>
William Russell Daniel ..	<i>Sarasota</i>	John C. W. Workizer	<i>St. Petersh</i>
Thomas Nancy Farabee ..	<i>Wauchula</i>	*Chester Robert Yates	<i>Plant</i>

BACHELOR OF LAWS

Elisha G. Akin, Jr.	<i>Winter Park</i>	Joe Scott Kirton	<i>Winter Ga</i>
Hildreth Clarence Baldwin ..	<i>Port Tampa City</i>	Joseph Lancelot Lazonby	<i>Ft. Lauder</i>
Albert Edward Barker, Jr.	<i>Jacksonville</i>	Maurice Egbert Lucas	<i>Ta</i>
Archibald McElroy Black	<i>Port Huron, Mich.</i>	James Milton McEwen	<i>Wauc</i>
William F. Brown, Jr.	<i>Miami</i>	Davis Lane Markett	<i>Arce</i>
Allan Bruce Cleare, Jr.	<i>Key West</i>	*Wm. Osborne Mehrtens	<i>Jackson</i>
Charles B. Cleveland ..	<i>Miami</i>	Don Oliver	<i>Gaines</i>
Leonard William Cooperman ..	<i>St. Petersburg</i>	Samuel Pasco, Jr.	<i>Pensa</i>
William Henry Dial ..	<i>Gainesville</i>	Henry MacLean Sinclair	<i>Winter Ho</i>
Barton Thrasher Douglas ..	<i>Gainesville</i>	Joseph K. Skipper	<i>Jackson</i>
William David Duckwall ..	<i>Bradenton</i>	James M. Smith, Jr.	<i>Red</i>
James N. Elliot ..	<i>DeFuniak Springs</i>	*Harry William Stewart, Jr.	<i>Jackson</i>
William Hubert Frecker ..	<i>Tampa</i>	J. P. Stokes, Jr.	<i>Mi</i>
Arthur Scranton Gibbons ..	<i>Tampa</i>	Arthur R. Thompson, Jr.	<i>St. Petersh</i>
Hubert E. Griggs ..	<i>Rockledge</i>	John Talbot Wigginton	<i>West Palm B</i>
Selwyn C. Ives ..	<i>Lake City</i>	Joseph S. Wilensky	<i>Jackson</i>
Oliver Preston Johnson ..	<i>St. Cloud</i>	T. Harold Williams	<i>Lake</i>

JURIS DOCTOR

*Beppo Rolff Johansen ..	<i>Clearwater</i>	Carson Fraser Sinclair	<i>Winter Ho</i>
Donald Conrad McGovern ..	<i>Jacksonville</i>	*Harold Barkley Wahl	<i>Orla</i>

BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING

Jean Ingraham Campbell	<i>Ft. Pierce</i>	Joseph T. Hall, Jr.	<i>Hollyu</i>
Laurence Martin Emanuel	<i>Ocala</i>	James Edward Mitchell	<i>Jackson</i>
*George Doane Freeman III.	<i>St. Augustine</i>	Lewis Henry Rogers	<i>DeFuniak Spr</i>
*H. Marion Gulick	<i>Tampa</i>	Francis Church Savage	<i>Et</i>
Robert Morton Schoenborn	<i>Tampa</i>		

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

Robert Flake Chambliss	<i>Tampa</i>	*Ojus Malphurs	<i>C</i>
Charles B. McAdam ..	<i>Pensacola</i>	Melcher Clarence Peterman, Jr.	<i>Gaines</i>
John Carey McCraw, Jr.	<i>Gainesville</i>	*Gordon Lee Williams	<i>Jup</i>

*Member Phi Kappa Phi Honor Society.

DEGREES AND DIPLOMAS CONFERRED—Continued

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

bert Britton Baker, Jr.	Hawthorn	Thomas O'Neill Neff.....	Jacksonville
de Vliet Booth	Daytona Beach	Floyd James Nelson	Umatilla
bert S. Bostwick	Jacksonville	William Geddes Perry	Miami
erbert R. Gaylord	Tampa	*Harvey Fenn Pierce	West Palm Beach
orge W. Haug	Tampa	Daniel T. Rockwell	Miami
onard E. Johnson	Orlando	William H. Sims, Jr.	Fernandina
erson M. Keeler	Miami	Paul Mathew Tedder, Jr.	Jacksonville
son Eugene Kester	Jacksonville	Wirt Vincent	Lecanto
Charles William Waring	Tampa		

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

bert S. Bostwick	Jacksonville	Herbert Wesley Fanus	Daytona Beach
omas W. Bostwick	Jacksonville	David Byron Lee	Jacksonville
B. Fred Newkirk	Tampa		

BACHELOR OF SCIENCE IN AGRICULTURE

ver Wendel Anderson, Jr.	Dade City	*John R. Greenman	Indianola, Iowa
orge Frederick Bauer	Pensacola	Charles Herminghaus	Mims
art Craig Bell	Barberville	A. B. Jackson	Clearwater
rcel A. Boudet	Lake Worth	James R. Jamison	Wabasso
ry John Brinkley	Jacksonville	Levi Mott Johnson	Miami
hard Lee Brooks	Gainesville	William W. Lawless	Gainesville
E. Collins	Bartow	John Stuart McColskey	Lake City
ies C. Cox, Jr.	Lake Alfred	Donald S. McLean	Bartow
rk Palmer Douglass	Jacksonville	John A. Mulrennan	Sydney
iam Tillman Dunn	Gainesville	Ralph John Ramsey	Gainesville
l Nagib Farun	Jerusalem, Palestine	William Wesley Roe	Plant City
ert Daniel Gill	Zephyrhills	Edward O. Schweitzer	Miami
Robert Wilson Stewart	Leesburg		

BACHELOR OF SCIENCE

vid E. Adelson	Tampa	Welcolm Tol Kelley	Gainesville
eman Winton Ashmore	Gainesville	Charles Orian Kirkland	Laurel Hill
n G. Augat	Attleboro, Mass.	Sydney S. Luria	Miami Beach
ry Jennings Babers, Jr.	Gainesville	*Carl Ernest F. Menneken	Miami Beach
ard Brady Biggers	Miami	Leland Hadley Pence	Orlando
rls Wilson Boyd	Gainesville	Andrew Douglas Rippey	Gainesville
ard Alfred Carrigan, Sr.	Miami	Marshall Everett Smith	Tampa
ment Gorley, Jr.	Paterson, N. J.	Julian Joseph Weinstein	St. Augustine
es E. Hanson	Daytona Beach	Robert Fisher Wulf	Gainesville
iam Logan Jennings	Jennings	*Paul Arthur Zimmerman	Miami

BACHELOR OF ARTS

ard Campbell Bailey	Ocala	Wallace LeRoy McLeod	Aucilla
bert Bates Cole	Jacksonville	*William Allan McRae, Jr.	Jacksonville
iam David Duckwall	Bradenton	*Charles I. Mosier	Miami
an Stanley Frazer	Pensacola	*Charles Bartlett Pinney	Alva
even Thomas Hart	Jacksonville	*Harwood Rosser, Jr.	Jacksonville
ur Heath Jones, Jr.	Pensacola	*Kenneth Gordon Skaggs	Gainesville
es Milton McEwen	Wauchula	*W. Stanton Soar	Miami
Alfred Edgar Wilson	Tampa		

*Member Phi Kappa Phi Honor Society.

DEGREES AND DIPLOMAS CONFERRED—Continued

MECHANICAL ENGINEER

William Henry Bohlen *St. Augustine* Paul Grey Franklin *Ft. My*
 B.S.M.E. 1927 B.S.M.E. 1923
 Harold Campbell Stansfield *Miami*
 B.S.M.E. 1924

CHEMICAL ENGINEER

William Hyde Fisher *Gainesville*
 B.S.Ch.E. 1926

CIVIL ENGINEER

Gerald Brewer Briggs *Gainesville* Errett Fillmore Gunn *Pal*
 B.S.C.E. 1926 B.S.C.E. 1923
 Edward Crawford Shipp *Tallahassee*
 B.S.C.E. 1927

MASTER OF SCIENCE IN PHARMACY

*LOUIS MAGID, B.S. in Pharmacy, University of Florida, 1931 (*Pharmacy;*
Chemistry) *Tampa*
Thesis: "The Effect of Various Compounds Upon the Stability of Hydrolic Acid"
 JEANNETTE MARY RADIN, Ph.C. 1930; Ph.C. 1931, Medical College of South
 Carolina (*Pharmacy; Chemistry and Bacteriology*) *Sejny, Poland*
Thesis: "The Antiseptic Value of Phenol Ointments"

MASTER OF SCIENCE IN ENGINEERING

CARL JACKSON GUARD, B.S. in Civil Engineering, University of Florida, 1931
 (*Municipal Engineering; Bacteriology*) *Orlando*
Thesis: "Some Problems in the Control of Sewage Treatment"

MASTER OF SCIENCE IN AGRICULTURE

POLICARPO GONZALEZ RIOS, B.S. in Agriculture, College of Agriculture and
 Mechanical Arts, University of Porto Rico, 1915 (*Horticulture; Bot-*
any) *Mayagues, P. R.*
Thesis: "Studies on the Histology and Cause of Storage Pitting of Citrus Fruits"
 *GEORGE CARL ROBERTS, B.S. in Agricultural Education, University of Flor-
 ida, 1920 (*Agricultural Economics; Marketing and Education*) *Weirsdale*
Thesis: "The Production, Receipts, Costs and Profits on Ten Citrus Groves in Polk County,
Florida, Over a Period of Ten Years"
 *ROYAL JAMES WILMOT, B.S. in Agriculture, University of Tennessee, 1922
 (*Horticulture; Botany and Chemistry*) *Loughman*
Thesis: "The Effect of Hydrocyanic Acid Gas Fumigation on the Subsequent Growth of
Pecan Nursery Stock"

MASTER OF SCIENCE

WILLARD MERWIN FIFIELD, B.S. in Agriculture, University of Florida, 1930
 (*Horticulture; Chemistry*) *Jacksonville*
Thesis: "The Effect of Various Wrappers and Temperatures on the Preservation of Oranges
in Cold Storage"
 WILLIAM RAYMOND LYLE, B.S. in Agriculture, University of Florida, 1930
 (*Horticulture; Chemistry*) *Bartow*
Thesis: "Studies on the Cold Storage of Avocados"

*Member Phi Kappa Phi Honor Society.

DEGREES AND DIPLOMAS CONFERRED—Continued

- *EDWARD S. QUADE, B.S. University of Florida, 1930 (*Mathematics; Physics*) Jacksonville
 Thesis: "The Development of the Idea of Integration"
- *FELIX ANTHONY REIBER, B.S. in Agriculture, University of Florida, 1930
 (*Mathematics; Physics and Chemistry*) Jacksonville
 Thesis: "Application of Integration to Generalized Addition Theorems"
- *JOHN BALLARD TOWER, JR., B.S. University of Florida, 1931 (*Biology; Botany and Geology*) Homestead
 Thesis: "A Comparison of Various Types of Animal Habitats in the Gainesville Regions with Special Reference to Evaporation Rates"

MASTER OF ARTS IN EDUCATION

- KENNETH RAST WILLIAMS, B.A. in Education, University of Florida, 1929
 (*Education; History and English*) Monticello
 Thesis: "Classroom Supervision in the Accredited Secondary Public Schools of Florida"

MASTER OF ARTS IN ARCHITECTURE

- *WILLIAM TOBIAS ARNETT, B.S. in Architecture, University of Florida, 1929
 (*Architecture; Civil Engineering*) Clermont
 Thesis: "A Study of the Campus Planning Problem at the University of Florida"

MASTER OF ARTS

- *JOE BASS, B.S. in Business Administration, University of Florida, 1930
 (*Economics; Education*) Jacksonville
 Thesis: "The Development of Manufacturing in Florida: 1899-1929—A Statistical Analysis"
- VELMA SHANDS BONACKER, B.S. Florida State College for Women, 1921
 (*Sociology; Philosophy and Economics*) Citra
 Thesis: "A Study of Mothers' Assistance with Special Reference to Alachua County, Florida"
- *LORIS ROOD BRISTOL, B.S. University of Florida, 1929 (*Sociology; Psychology and Education*) Gainesville
 Thesis: "A Study of Pardonng Systems with Special Reference to Florida"
- *SAMUEL TODD FLEMING, B.A. Florida Agricultural College, 1901 (*Economics; Agricultural Economics*) Gainesville
 Thesis: "Agricultural College Organization in Land-Grant Institutions"
- *CHARLES ROY HUGHES, B.A. University of Florida, 1931 (*History; Political Science and Economics*) Lake Hamilton
 Thesis: "The Foreign Policy of Woodrow Wilson"
- *JOSEPH CLYDE STOCK, B.S. in Education, University of Florida, 1931 (*Sociology; Economics*) Interlachen
 Thesis: "'Cultural Recapitulation' in Theory and Practice"
- *ROGERS W. YOUNG, B.A. in Education, University of Florida, 1931 (*History; Political Science and Psychology*) Tallahassee
 Thesis: "Our Relation with Venezuela
 A Study in American Diplomacy"

*Member Phi Kappa Phi Honor Society.

DEGREES AND DIPLOMAS CONFERRED

SUMMER SESSION

August 4, 1932

NORMAL DIPLOMA

Carrie R. Altman	Wauchula	Mansel M. Mashburn	Youngston
Horace Holton Amason	Cedar Key	Euda Massey	New Smyr
Nettie Mae Bass	Live Oak	Elizabeth Seale Matthews	Hawtho
Richard Howard Beach	Daytona Beach	Jean Maxwell	Sanfo
Edna Clemons Benton	Plant City	Mrs. Harold A. Morris	Lar
Hattie Beatrice Bishop	Tampa	Evelyn Amanda Slone Newberg	Oco
Debbie E. Bledsoe	Lithia	Nelle Elizabeth Newton	Live O
Claude Frier Bridges	Trenton	Frances Caroline Norton	Jacksonvi
Albert W. Buchholz, Jr.	Tampa	Edith Overton	Mia
Josephine Schaffer Burgess	St. Augustine	Erma May Pickett	Jacksonvi
Pearl Cameron	Jacksonville	Ruth Lewis Pournelle	Orlan
Rhoda Gertrude Clement	Bartow	John Howell Price	Center H
Hugh Coil	Clearwater	Jonnie M. Quarterman	Jacksonvi
Kate Willard Coley	Bluff Springs	Isabel Louise Raulerson	Wal
Dorothy Colson	Trenton	Alfred C. Reed	Gainesvi
Virginia Smith DeShong	Tampa	Charles Edward Sauls	Tallahass
Lawrence Y. Douglas	Dunedin	Adelaide Scharfschwerdt	Ft. Pier
Bessie Mullens Eagan	Key West	Margaret Seay	Gainesvi
Mabel Rowena English	Plant City	Ruth Elizabeth Seed	Daytona Bea
Kathryne Epperson	Lake Butler	Mildred Catherine Sledge	S. Jacksonvi
Mattie Hugh McIntire Farmer	Ocoee	Charles Alexander Smith	Reddi
Lucile S. Farnsworth	Plant City	Daisy Rae Smith	Tam
Leo L. Foster	Monticello	Dorothea Hopkins Smith	Gainesvi
Lena Fugate	Orlando	Andrew J. Stevens	Marian
Pauline Galloway	Tampa	Nobbie H. Stone	Port St. J
Mary Louise Greenlaw	St. Petersburg	Mrs. Clyde Richards Strachan	Tam
Beulah Touchton Hall	Cross City	George Carroll Sweat	Live O
Edna Freeman Hodges	Tampa	Jesse Mercer Syfrett	Gainesvi
Della Hogan	Trenton	Emma Powell Tanner	Baldu
Elisabeth Smith Hohnadel	Tampa	Henry S. Thompson, Jr.	Per
Dorothy Lamb	Anthony	Nell Elizabeth Turner	Colem
Mary Lou Lee	St. Augustine	Talitha E. Waddy	Elfe
Mattie F. Livingston	Carbur	Caroline B. Watkins	Micano
Minnie A. Lopez	Tampa	Nannie Watson	Colem
Bertha Lee Love	Trenton	Janie Feagin Webb	Tam
Flora Estha Lovell	Seffner	Ruth Hester Whitehead	Hollis
Georgie Ella McCall	Lake City	Marilu Wilder	Tam
Carol Virginia McGarity	Ft. Pierce	Shelley K. Wright	Lem Turn
Russell C. Maddox	Gainesville	Catherine Yancey	Umati
Mae Belle Martin	Gainesville	Velta Fletcher York	Jacksonvi

THE CERTIFICATE IN

LIBRARY SCIENCE

Frances Buchanan	Sarasota	Nettie M. Masterson	Oco
Grace Harwell	Jacksonville	Florence R. Shotwell	Palm C

BACHELOR OF SCIENCE IN JOURNALISM

Thomas Hartwell Buckley	Pensacola
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DEGREES AND DIPLOMAS CONFERRED—Continued

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION

erton Jesse Austin	<i>Orlando</i>	Lewis Perloff	<i>Jacksonville</i>
hard William Longley Johnson	<i>Key West</i>	Walter Henry Schwab	<i>Miami</i>
uben Rennolds Mathews	<i>Leesburg</i>	Russell Morgan Scott	<i>Sebring</i>

BACHELOR OF ARTS IN HEALTH AND PHYSICAL EDUCATION

L. Baker	<i>Delray Beach</i>	Albert Paul Tully	<i>Tallahassee</i>
ward N. Parnell	<i>Jenson</i>	Stephen Eldon Walsh	<i>Gainesville</i>
	William Tucker Weeks		<i>Newberry</i>

BACHELOR OF SCIENCE IN AGRICULTURAL EDUCATION

ry E. Westbury	<i>Gainesville</i>	Bureon Kylus Wheeler	<i>Hawthorn</i>
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BACHELOR OF SCIENCE IN EDUCATION

liam Lambert Campbell	<i>Kissimmee</i>	Gayle Kelley	<i>Haines City</i>
ouis F. Dankwertz	<i>Summerfield</i>	Edward Harrison Miller	<i>Melbourne</i>

BACHELOR OF ARTS IN EDUCATION

evieve Baker	<i>Lake Worth</i>	Karl Francis Luttrell	<i>Brooksville</i>
er Bracuto	<i>Gainesville</i>	Vivian E. McLin	<i>Knights</i>
n Albert Buckley	<i>St. Petersburg</i>	Adam Albert Merbler	<i>Pensacola</i>
arles Barrett Caldwell	<i>DeLand</i>	James Douglas Montgomery	<i>Gainesville</i>
izabeth Maney Cone	<i>Tampa</i>	*Ruth Beatrice Peeler	<i>Gainesville</i>
sie Murphey Crowell	<i>Wauchula</i>	James Andrew Ramsey	<i>Blountstown</i>
na Snyder Davis	<i>Babson Park</i>	Ila Crawley Russ	<i>St. Petersburg</i>
illiam Thomas Edwards	<i>Bartow</i>	Sister M. Chrysostom	<i>St. Augustine</i>
rgaret Carrick Fairlie	<i>Jacksonville</i>	Sister Mary Norberta	<i>St. Augustine</i>
ce E. Goodbread	<i>St. Petersburg</i>	Sister Mary Thecla	<i>Jacksonville</i>
na Shepherd Guito	<i>Key West</i>	*Clarice Yeoman Smith	<i>S. Jacksonville</i>
anor S. Harllee	<i>Tampa</i>	Carroll B. Terry	<i>Ocoee</i>
ola Padgett Holliday	<i>Coral Gables</i>	T. Shepard Thomas	<i>Lake Butler</i>
la Nash Knight	<i>Jacksonville</i>	Elsie Augusta Turner	<i>Leesburg</i>

BACHELOR OF LAWS

bert Burns Archibald	<i>Jacksonville</i>	James Henry Millican, Jr.	<i>Palatka</i>
eph Irving Davis	<i>Miami</i>	Wright W. Peabody	<i>Coral Gables</i>
il L. Dayton	<i>Dade City</i>	Joseph Gerald Shopiro	<i>Miami Beach</i>
arles Robert Hess	<i>Jacksonville</i>	Gerald W. Sturm	<i>Sarasota</i>

JURIS DOCTOR

Joe Clint Jenkins	<i>Gainesville</i>
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BACHELOR OF SCIENCE IN CIVIL ENGINEERING

erson W. Copeland	<i>Tampa</i>	Reynold Marvin Kirby-Smith, Jr.	<i>Jacksonville</i>
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BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

Robert Alden Thompson	<i>Miami</i>
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DEGREES AND DIPLOMAS CONFERRED—Continued

BACHELOR OF SCIENCE IN AGRICULTURE

Lloyd Sandy Brunk *Sebring* Walter Coutts Holland *Leesbu*
 Clyde Russell Shepard *Gainesville*

BACHELOR OF SCIENCE

Thomas Cecil Butt *Orlando* John Barnard Flanagan *Lakelan*
 Joseph Brown Farrior, Jr. *Tampa* *Major Joel Henderson *Bak*
 James Lewis Hurt *Gainesville*

BACHELOR OF ARTS

John Ward Henderson *Tallahassee* John William Prunty *Mia*
 Joseph Dascomb Potts *Gainesville* Wilton Sturges, Jr. *Gainesvi*

MASTER OF SCIENCE IN PHARMACY

GEORGE WILLIAM BIRMINGHAM, B.S. in Pharmacy, North Dakota Agricultural
 College, 1930 (*Pharmacy; Chemistry*) *Stutsman, N. Dakota*
Thesis: "The Stability of Solution of Iron and Ammonium Acetate, U.S.P.X."

GEORGE MACDONALD HOCKING, B.S. in Pharmacy, University of Washington,
 1931 (*Pharmacognosy; Chemistry; Botany and Agronomy*), *Wagner, S. Dakota*
Thesis: "The Pharmacognosy, Chemistry, and Therapeutics of Lacinaria spicata [L.]
Kuntze and of Lacinaria tenuifolia [Nutt.] Kuntze (Compositae)."

*HAROLD J. LYNCH, B.S. in Pharmacy, South Dakota State College, 1931,
 (*Pharmacology; Chemistry*) *Faribault, Minn.*
Thesis: "The Effect of Anthelmintics on the Host."

MASTER OF SCIENCE IN ENGINEERING

*DOW GARY BECK, B.S. in Electrical Engineering, University of Tennessee,
 1915 (*Electrical Engineering; Mathematics and Physics*) *Ocala*
Thesis: "An Analysis of the Magnetic Circuits of Alternating Current Induction Type Watt-
Hour Meters."

MASTER OF SCIENCE IN BUSINESS ADMINISTRATION

FRED STEPHEN JAHN, B.S. in Business Administration, University of Florida,
 1931 (*Business Administration; Economics*) *New Port Richey*
Thesis: "Some Statistical Contributions to the Neo-Classical Theory of Value."

MASTER OF SCIENCE IN AGRICULTURE

*LAWRENCE JOHN LARSON, B.S. in Agriculture, University of Florida, 1928
 (*Agricultural Economics; Horticulture and Education*) *Winter Haven*
Thesis: "Cost of Producing Strawberries in the Plant City Area for the Season 1927-28."

*JOHN LEVI WANN, B.S. in Agriculture, Purdue University, 1921
 (*Agricultural Economics; Business Administration*) *Gainesville*
Thesis: "Florida Truck Crop Competition, Intra-State."

MASTER OF SCIENCE

JOHN MELTON COLEMAN, B.S. Mississippi A. & M. College, 1915 (*Chemistry;*
Agronomy and Bacteriology) *Gainesville*
Thesis: "The Effect of Fertilizers and Soil Types on the Mineral Content of Plants."

*Member Phi Kappa Phi Honor Society.

DEGREES AND DIPLOMAS CONFERRED—Continued

- *WILLIAM THOMAS FORSEE, JR., A.B. Georgetown College, 1931, (*Chemistry; Physics*) Owenton, Ky.
 Thesis: "Acyl Derivatives of Ortho-Aminophenol, III."
- SEIBERT CLINTON PEARSON, B.S. University of Florida, 1931 (*Biology; Chemistry*) Alachua
 Thesis: "Myology of *Tadarida Cynocephala* [Le Conte]."
- OWEN RICE, II, B.S. in Chemical Engineering, University of Florida, 1931 (*Chemistry; Physics and Mechanical Engineering*) Orlando
 Thesis: "The Effect of Certain Anions on the Formation of Alum Flocc and on Color Removal."

MASTER OF ARTS IN EDUCATION

- JOHN L. BUTTS, B.S. Mississippi A. & M. College, 1916 (*Education; Agronomy*) Miami
 Thesis: "A Program for Agricultural Education in Dade County."
- RALPH CARY CARLISLE, B.S. Alabama Polytechnic Institute, 1910 (*Education; Agricultural Engineering and Agronomy*) Sneads
 Thesis: "Making a Long Time Program in Vocational Agriculture for Sneads Community."
- CARL CLINTON CARNES, A.B. in Education, University of Florida, 1926 (*Education; Psychology and Physics*) Gainesville
 Thesis: "A Study of the Natural Science Laboratories in the High Schools of Florida."
- GUY COX, B.S. Clemson College, 1919 (*Education; Agricultural Economics and Horticulture*) Lake City
 Thesis: "A Study of the Newspaper Articles Relating to Vocational Agriculture in Florida."
- *WATSON PERRY DAVIDSON, A.B. in Education, University of Florida, 1929 (*Education; History and Sociology*) Baker
 Thesis: "A Study of the Official Relations of the Supervising Principals of Sumter County, Florida."
- CHARLES LEWIS DODSON, B.S. in Education, University of Florida, 1927 (*Education; Biology and Botany*) Gainesville
 Thesis: "Analysis of the Factors in Florida High School Science Teaching and Some Resulting Effects on Freshman Grades at the University of Florida."
- VERNICE LAW HEARN, A.B. in Education, University of Florida, 1930 (*Education; English*) Miami
 Thesis: "A Study of the High Schools in Alachua County, Florida, for the Purpose of Consolidation."
- ALEX RALPH JOHNSON, B.S. in Agriculture, University of Florida, 1925 (*Education; Agricultural Engineering and Agronomy*) Sanford
 Thesis: "The Organization, Instruction and Results of Evening Classes in Poultry Production."
- FRED KEY KNIGHT, B.S. in Agriculture, University of Florida, 1925 (*Education; Horticulture; Agricultural Engineering and Agronomy*) Crescent City
 Thesis: "How to Organize and Conduct an Evening Class in Citrus Culture."
- *ELDRIDGE F. McLANE, A.B. in Education, University of Florida, 1922 (*Education; History and Philosophy*) Brandon
 Thesis: "Vocational Practices in the Junior and Senior High Schools of Florida: Present Status and Probable Trend."

*Member Phi Kappa Phi Honor Society.

DEGREES AND DIPLOMAS CONFERRED—Continued

- HORACE O'BRYANT, B.S. in Education, University of Florida, 1922 (*Education; Sociology and English*)Oxford
Thesis: "The Cuban Child in Division Street School, Key West, Florida."
- GEORGE N. WAKEFIELD, B.S. in Agriculture, University of Florida, 1925
 (*Education; Agronomy and Agricultural Engineering*).....Homestead
Thesis: "Training for Leadership Through Future Farmers of America."
- CHARLES M. WILLIAMS, B.S. Valparaiso University, 1914 (*Education; English and Mathematics*)Trenton
Thesis: "Care and Maintenance Practices in Certain Accredited Florida Schools."

MASTER OF ARTS

- HOWARD L. HOAG, A.B. Kalamazoo College, 1927 (*Economics; Business Administration*)Kalamazoo, Mich.
Thesis: "Highway Finance in Florida."
- ERNEST M. McCracken, A.B. Georgetown College, 1930 (*Economics; Business Administration and History*)Erlanger, Ky.
Thesis: "Real Estate Assessment in Marion County, Florida."
- MAUDE McEWEN, A.B.E. Florida State College for Women, 1926 (*French; English and Sociology*)Zellwood
Thesis: "A Comparison of Chateaubriand and Byron—Romanticists."



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Armistice Day Address

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Gainesville, Florida

ARMISTICE DAY ADDRESS

by

THE HONORABLE W. H. ELLIS

Justice of the Supreme Court of Florida

UNIVERSITY AUDITORIUM

November 11, 1932



ARMISTICE DAY ADDRESS

Mr. Commander, Gentlemen of the American Legion,

Ladies and Gentlemen:

I thank you for the honor accorded to me in affording me the opportunity to speak to you on this occasion, the anniversary of the Armistice declared by the contending armies in the great war.

That day marks the end of a gigantic struggle at arms in which possibly the destinies of the different nations of the earth, civilized and uncivilized, were involved. It lies only within the prescience of God to say what that destiny would have been if there had been no Armistice and if the German nation had forced the allies to surrender, or what that destiny is now that Germany was forced to seek the Armistice and finally acknowledge her defeat.

The 11th day of November, 1918, is the date of the cessation of hostilities so far as arms and ammunition and struggling hostile armies were involved. The struggle has changed in nature only. From a bloody one it became a bloodless one; from the march, advance, and retreat of hostile armies it became the march, advance, and retreat of economic policies and forces; from the noise of exploding cannon to the din of turgid eloquence in the political forum; from the desire to exterminate the enemy by means of bayonet, shot, and gas to the less bloody and more peaceful, but none the less effective, method of political struggle between groups or classes, irrespective of nationality so far as basic theories of government are involved, and between local groups so far as national and local policies of government are involved.

As much more poverty, and consequently as much suffering and disease, as perhaps ever existed before in the history of the world now marks the beginning of the third decade in the Twentieth Century of the Christian Era. Man's hand against every man and every man's hand against him seems to be the Ishmaelitic policy to which the politicians and their diplomacy have led us.

Sophistry and selfishness seem to be the accepted tone and color of the arguments in the political forum and the national and international policies of the world. Japan, China, Russia, Italy, Spain, France, Germany, Great Britain, India, the South American republics, and the United States are in the throes of domestic controversies in which interests of the vast body of the common people seem to be ground between the upper and nether millstones.

In those countries where the doctrine that all governments derive their just powers from the consent of the governed is pretended to be observed, organized groups, representing special interests, are striving for political supremacy to the end that the particular class represented may be favored in legislation and governmental policies above all others. The functioning of legislative and executive branches of the government is impaired by extravagance, while the burden of taxation increases and opportunities for earning a livelihood and individual income decrease. There is scarcely an agency of government, from local school or road district to the executive and legislative departments, which is not affected by an individual or group selfishness.

The interests of the State are submerged to give place to a pseudo apotheosis of individual leaders in particular groups, by the exaction of taxes and the application of public revenues to extravagant and ill advised purposes.

Is that an overstatement of the political conditions existing in every government of the world today? Witness the enormous burden of taxation which the people of this state are carrying today, which the people of the United States are yearly carrying—amounting to more than the total cost of government from the foundation of this Republic to the year 1918—post-war activities which increase rather than decrease that burden; the unfriendly attitude of all European and South American countries toward the people and government of the United States, which, through the altruistic motive of saving the world for democracy, plunged into the great war and cast the influence of their man power and money against monarchy and imperialism that threatened to destroy the purposes of righteous governments and sincere love for mankind.

Scarcely had the echoing thunder of cannon ceased and the rising sun of peace cast its beneficent rays upon the world before controversies, bickerings, and dissension arose; and the hope of a League of Nations, a world court, or the establishment of some international agency through which war might be rendered impossible and the arts of peace be given a chance and spirituality an opportunity to develop, vanished like the roseate colors of an Utopian morning dream, and the ugly and revolting head of national, individual, and group selfishness was reared above the destinies of man.

If that condition of our organized society exists, if materialism is in fact displacing national and individual spirituality, then the dream of a representative democracy is vanishing, and Americanism as a growth from the Declaration of Independence and the Constitution of the United States is imperiled.

Whatever may be the voting strength of any one group, even if it reaches the maximum of its numerical strength through interests common to the particular group to which membership is confined, it is bound to be a minority influence; although it may possess the power to intimidate legislators, state and national, and thereby coerce legislation in furtherance of its own programme, such a group will be strongly tempted and perhaps yield to the exercise of a power which their numbers give to oppress those whose welfare does not lie within the activities of such group.

The oppression of others not in the particular group may not be the result of design, but it may nevertheless flow from too great an emphasis which is placed upon the importance of the legislation sought and too slight regard for the economic or governmental value of such legislation in the light of general welfare.

Any organized body of men and women, civilian or military in nature, with a large membership distributed over this great country, represented in local societies under the direction or supervision of a national council and united by an interest peculiar to its membership, will have resting upon it a tremendous responsibility. The political power of such an organization in a government like ours is incalculable. Such power unwisely and persistently exercised may destroy the confidence of the people in their institutions and

prepare the way for a political disturbance so revolutionary in character as to require a readjustment of our social structure.

Our government is a party government. Theoretically, each political party seeks to secure the administration of public affairs according to the economic and political principles which it advocates. Practically, the individuals holding public office, particularly those in the legislative department, are extremely sensitive to the influence of organized bodies controlling a large voting strength, irrespective of the party declarations of principle by which they are supposed to be guided. Once in office, they seek to remain there, and the retention of their titles is greatly dependent upon their personal popularity with the electorate under which they hold.

Hundreds of instances of this truth exist in the political history of this state and nation. It accounts for the divergence of views upon the subject of the tariff, which one President of the United States said was a local question regardless of party lines. It accounts for the divergence of views upon the prohibition question, upon post-war questions affecting foreign relations, and religious questions whenever such questions are injected into politics. In this state we have had our own experience of such matters. It is needless here to particularize. One has but to be fair with himself in his own judgments in recalling the political events of 1928.

Thus, an organized body of men and women united upon some common interest irrespective of party lines exerts an influence upon legislation and therefore upon the political destiny of the country and the general welfare of the people in proportion as the voting strength of the organization is great or small. And in view of that truth we are forced to the conclusion that the political responsibility of such an organization is tremendous, even though it may consider itself a "non-political" order, as that phrase is interpreted in terms of political party names.

What effects the great organization known as the American Legion will have upon the destiny of this country will of course depend upon how it exercises and in what direction it exercises its already tremendous power. It numbers in its ranks already a million members. Of the 4,355,000 soldiers mobilized by America for the world war, it is estimated that less than a third of them saw actual service, yet all of them now alive, as well as sailors and marines, are eligible for membership in the Legion. In May, 1919, when definite steps had been taken in St. Louis to organize the patriotic society, the *New Orleans Item*, commenting upon the fact, said: "The American Legion is certain to shape and control the destinies of the nation in the years to come to an extent of which the wise will refrain from even suggesting the limit."

Colonel Henry D. Lindsey, who was Chairman of the St. Louis Caucus, told the assembled delegates: "It is going to be within your power to say yes or no to many of the great problems of the United States."

At the Third National Convention the National Commander told the assembled delegates: "Never before in the history of America has such a great force in our national life appeared, never has such power and prestige been

granted, never has such responsibility and opportunity existed for any organization. The American Legion is the cradle for the whole future of America."

Former officers formed the backbone of the Fascist revolution in Italy which displaced parliamentary government. An ex-soldier, leading veterans, usurped the government in Turkey. A similar group took over the control of Poland's destiny. While at the height of its power the Grand Army of the Republic exerted a great influence in determining the policies of the political party in power.

That the Legion has grown in numbers and with that growth increased its political influence is undoubtedly true. As it feels its power its activities enlarge. It is as perfect an organization of its nature as has ever existed in any country. It is officered and its policies directed by as intelligent and aggressive men as the Republic affords. It is a National Corporation by Act of Congress. It may transact business all over the country. It may sue and be sued; it may conduct subsidiary corporations and has the prestige and distinction attached to such a formal status.

Its motives as expressed by the Legion are embodied in the preamble of its constitution: "For God and Country, we associate ourselves together for the following purposes: To uphold and defend the Constitution of the United States of America; to maintain law and order; to foster and perpetuate a one-hundred-per-cent Americanism; to preserve the memories and incidents of our association in the great war; to inculcate a sense of individual obligation to the Community, State, and Nation; to combat the autocracy of both the classes and the masses; to make right the master of might; to promote peace and good will on earth; to safeguard and transmit to posterity the principles of justice, freedom and democracy; to consecrate and sanctify our comradeship by our devotion to mutual helpfulness."

Though that preamble has been said to be a masterpiece of the English language, it may be observed that many of its phrases are very flexible and lack definiteness. What constitutes "a one-hundred-per-cent Americanism" is obviously a matter in which there may be a wide difference of opinion. What constitutes upholding and defending the Constitution is a matter about which politicians are at wide variance and in which even courts differ, as evidenced by the numerous decisions which have been handed down and the great number of controversies between individuals, to say nothing of the basic differences between the two great political parties. The phrase, "our association in the great war," is susceptible certainly of more than one meaning. The promotion of peace and good will on earth may be by way of pacifism or militarism accordingly as one views the subject. "Right" is obviously a term which needs definition as often as it is used.

But the people of this country need fear no trouble from that source so long as the interpretation of the words of that preamble is guided by a righteous purpose and a sincere love for the rights of mankind, to use the words of President Wilson, or so long as we cultivate peace and harmony and give to the world the example of a people always guided by an exalted justice and benevolence, as advised by the greatest citizen of all times, George Washington.

We are not concerned about whose brain brought forth the idea of the organization of the Legion—whether Colonel Theodore Roosevelt, George A. White, Bennett C. Clark, Fisher Wood, Franklin D'Olier, or General Pershing, or any of a number of others, suggested it. It just seemed to grow out of the conditions existing immediately following the Armistice. Soldiers on both sides talked with each other; there were rumors of the Bolsheviek revolution, German soldiers rising against their Generals, of French mutinies. Mr. Duffield says these conditions and the anxiety of American bankers and business men returning from Europe and the deep concern of the American General Staff as to what might be the returning soldiers' reaction to the situation in which they might find themselves upon obtaining their discharge from the army, the impaired capacity of many of them to earn a livelihood and the attitude of the government toward disabled soldiers and their dependents suggested the propriety of such an organization.

But a patriotic order was formed. The response to the call was characteristic. It marked a high degree of loyalty to our form of government and evinced a patriotism worthy of the noble sentiments expressed in the preamble of the Constitution as interpreted in the light of the profoundest statesmanship.

When the time came to ask the Congress for a charter for the new organization, the members of the Legion decided to eschew politics, so Section Two of the Charter, as granted by Congress, is as follows: "The American Legion shall be absolutely non-political and shall not be used for the dissemination of partisan principles nor for the promotion of the candidacy of any persons seeking public office or preferment. No candidate for or incumbent of a salaried elective public office shall hold any office in the American Legion or in any department or Post thereof."

But how do the words of the preamble and the second section of the Charter as granted by Congress square with the activities of the Legion and the words of Major General James G. Harbord before the New York State Convention of the Legion in 1931, according to Mr. Duffield?

General Harbord said: "The Legionnaires should take political leadership into their own hands and assume the responsibility of shaping their Country's policies, both foreign and domestic. Within the next fifteen years the Legionnaires will dominate both the state and Federal Governments, have a majority in both houses of Congress, and have one of their number in the Presidential chair".

The definition of the word "political", according to *Webster's International Dictionary*, is: "Of or pertaining to the exercise of the rights and privileges or the influence by which the individuals of a State seek to determine or control its public policy." It would seem, therefore, that when a corporation or organized body of men agrees to be non-political in its activities, such corporation or organized body as such is precluded by the agreement from participating in any activities by which the government is sought to be influenced in determining its public policy.

The Legion, organized by men who were ready to offer and did offer their lives at the call of the government to save the world for democracy,

finding its members rapidly increasing and with that increase an ever growing potential influence, considered seriously the self-imposed limitations of their charter in so far at least as government policies might run counter to the Legion's notion as to the government's obligation to its disabled soldiers. Therefore, at the Second National Convention after the Charter was granted a committee of thirty-six, by an overwhelming vote, resolved that the Legion was not prohibited by its charter and constitution from supporting or promoting policies and principles which may become the subject of governmental activities and are within the purposes enumerated in the preamble to the Legion's constitution. That report, however, was overwhelmingly rejected by the delegates in the National Convention. But the ambition of the Legion grew under systematic stimulation by its National officers, and there was presently evolved a very unique, most clever but wholly sophistical, argument leading to the conclusion that it could not have been the purpose of Congress to declare illegal the Legion's efforts to help the government see that veterans' affairs were properly handled, a distinction being drawn between veterans' affairs and controversial questions. Presently the word "controversial" came to mean issues in dispute within the Legion, so that if the Legion agreed upon a national policy, no matter how controversial it might be for the rest of the Nation, it ceased to be so from the Legion's view point and the policy was adopted as being "patriotic." Under this verbal erosion of the word "non-political", all the Legion has to do is by a majority vote in National Convention adopt any policy of government, however important and controversial it might be as to the rest of the nation. Such a policy then becomes "patriotic", and therefore within the legitimate power of the Legion as such to actively support and help the government see its wisdom.

As a result, the Legion has the most perfect organization of its kind in the world. Every detail is most efficiently guarded, every Post is an agency for the advocacy of its policies; its headquarters at Indianapolis consist of a building which is a modern palace in architecture and furnishings; a large force of employees is kept busily at work; the National Commander earns his rather satisfactory salary of about \$12,000 per year; it maintains a lobby at Washington at a cost of approximately \$25,000 per year. Ex-service men are employed in every department of government. There is a large representation in the House of Representatives and in the Senate.

How the Disabled Emergency Officers' Retirement Act, after nine years of strenuous work by the Legion's agencies, was passed through Congress over the President's veto—"Jammed through Congress", as Representative Hamilton Fish, Jr., declared—by a so-called absolutely non-political organization is a political adventure story which will make the prurient eyes of Treasury raiders in state activities dilate with admiration.

It is estimated that at present war veterans are costing the government more than \$900,000,000 per year. If the bonus is paid in a lump sum there will be added approximately \$3,500,000,000 more. According to Mr. Ogden L. Mills, the estimated total receipts of the Government in the year 1933 will amount to approximately \$2,696,000,000. According to some calculations made by certain administrative officers and Senators in Washington, who assumed that

through Legion activities further demands upon the treasury would be made after the bonus certificates were cashed, pensions considered for ex-soldiers and their widows, disability pay, hospitalization and old soldiers' homes, the government would be paying on that account yearly in ten years more than its present total income.

No one discredits the valor, loyalty, patriotism, good faith, and true Americanism of the American soldiers. All praise to them for their magnificent courage in war and their faith in our government in times of peace! But to them I say, Be careful how you exercise the tremendous power which the Legion organization places in your hands. In the last analysis the 11,000 Posts which constitute the Legion are so many agencies for good or evil according as the membership has a sound conception of the duties of Citizenship as American Citizens.

What I have said has not been in a spirit of antagonistic criticism. I believe every citizen is willing to contribute of his substance by way of taxation to a reasonable and fair, even generous, maintenance and care of disabled veterans who saw actual service in the great war, and to proper care for those immediately dependent upon them, as well as the widows of those who have passed on. I, for one, would rather leave the destinies of this Country in the hands of the American Legion, provided the great purposes of the organization as set forth in the preamble of its constitution are interpreted in the light of a profound statesmanship, than to intrust it to the specious insincerity and incapacity of the professional politician.

I commend to all citizens a study of the life of George Washington. His patriotism and humanity are the inheritance of the American people. History had not recorded, human nature had not known, dramatist had not portrayed, nor poet dreamed of a political career so unselfish.

It was assumed until then that when great power came within the grasp of an intellectually strong man by his own efforts, he would seize it and build his fame and glory upon it. But such was not the belief of Washington: he thought that glory was of the spirit and not of the flesh, that its origin was divine and not materialistic. Washington died December 14, 1799. One hundred and thirty-four years after his death this Country virtually offers a challenge to its people and to the world to discover in his life any trait of character or course of conduct or political doctrine, motive or philosophy, that would detract from his fame or impair the veneration in which his memory is justly held by all lovers of our government and believers in our institutions. Since his retirement to private life at the end of his second administration in March, 1797, and for many years preceding that date, except for a short period during his second administration, no one has had the temerity to cast any aspersion upon his character or to question the high standard of his motives. He has held a place in the hearts of the American people as the most beloved and highly esteemed citizen.

What subject could more forcibly bring to the attention of the people the errors of a wasteful, selfish, and partisan policy in government than the life and character of the man who in his private and public relations has been for a century and a half through all the vicissitudes of political, industrial,

social, and economic experience esteemed by the American people as the ideal American citizen?

To see that we are breaking away from standards in political and economic life by which once we measured our citizenship, we have but to take stock of present conditions. Whether it is good for our nation to continue in what may be a false philosophy of life, or hark back to the Constitution and the contemplation of a citizenship exemplified by Washington, may be an exceedingly wholesome subject for the people of this nation to consider.

The very idea of the power and the right of the people to establish government presupposes the duty of every individual to acquaint himself with its functions; to exercise discretion in the election of officers, consider proposed policies in local organizations, and have a voice and exert an influence through his party affiliations in all government activities. Every citizen who wants good government must devote some effort to the duties of citizenship.

It will be late to talk of reform when through our inattention to these matters the people are ridden like a broken and tired horse by the tax gathering politicians, while competent and able-bodied men are without employment in a land of opportunity, and families are destitute of necessities in a land of potential wealth. Washington probably did more for his people and asked less in return, said Rupert Hughes, than any man in history. We honor and revere his memory for the ability he possessed to discern the truth involved in a great principle of government, and for his unwavering, unselfish willingness to support that principle in the interest of the people.

That ability and trait in human character exists today, and it is up to the American people to discover it in this generation and apply it to present conditions if this government and our institutions are not to perish from the earth. Governments derive their just powers from the consent of the governed. The governed are all the people, not that very small percentage of the adult male and female population who exercise the privilege of voting on the day of election, some through considerations of public welfare, others through caprice or considerations of personal interest.

Under our interpretation of the phrase "consent of the governed", we intrust to an electorate consisting of less than fifty per cent of the people the duty of expressing at the polls the will of all the people. About one half of those intrusted with that duty discharge it by voting; and they are beset on all sides by selfish interests represented in group formations seeking the advantage of special legislation, while hordes of professional politicians seeking soft berths for themselves shower the electorate with false political doctrines and pseudo patriotism. As a result, the cost of government has grown beyond all reasonable bounds. Myriads of office holders and useless employees swarm in and out of the Capitol at Washington and the capitols of the states, building up political fences for their respective organizations and employers while the people pay and pay from the fruits of their labor and industry as more and more demands upon their abilities and resources are made. Are we not in danger through dereliction of our duty of allowing an infinitesimal part of our population to establish a despotism over us?

The military exploits of Washington are history; every detail of his many campaigns is recorded. His experiences at Boston and New York; his crossing the Delaware and suffering at Valley Forge; his defeat by Howe at the Brandywine; the defection of John Adams in favor of General Gates, who forced Burgoyne to surrender at Saratoga; his trials with the French officers, who did not understand his tactics; his friendship for Lafayette; the second Valley Forge in the winter of 1780-1781; the threats of Congress to cut down his army on the plea of economy at the very time he was trying to show the French he had a chance to win—all these and more of his trying experiences are facts in his career by which his military genius, the tremendous power of his will, the sterling quality of his character, and his unflinching fidelity to principle in spite of misfortune, are deeply written in American consciousness.

When his work was done he said it was well done. He asked for no reward, sought no political power, asked for no titular distinction, but, mounting his horse, turned his face toward Mt. Vernon and the peace and quiet of a country gentleman's life. This type of the ideal American citizen has been well nigh destroyed by unrestricted foreign immigration which brought along with it the political and social follies of the tax-ridden and blase European failures, and a coarse materialism in our political and social philosophy. But the virtues and force of character exemplified by Washington still exist in the American people and may be exemplified in American citizenship.

Whether they are to be developed in class animosities, in political favoritism, party factions, and exploitation of the country in behalf of special interests, or in a *bona fide* effort on the part of the electorate to form correct opinions and to put them into effect, the people themselves must determine. The work is not the labor of any particular character of our citizenship; every one in every vocation must be about the business of investigation of the phenomena presented and the inherent evils attendant, to the end that appropriate remedies be prescribed.

The period of eight years from the surrender of Cornwallis to the adoption of the Constitution of the United States was one filled with many trials, which grew out of the diversified interests of the colonies, inaccessibility to each other, difficulties of communication, and the suspicion of any kind of central government which might develop into a local tyranny. The suspicion of each other was born of the terrible experiences through which they had passed in throwing off the so-called English yoke, and they did not propose to place an equally offensive and burdensome yoke of their own making upon their necks. Each state was to be sovereign, free and independent of all others. In a few years the conditions became unbearable, almost chaotic. The fruits of the Revolutionary War were in danger of being lost. The brilliant work and noble sacrifice of Washington would have disappeared in the debris of the crumbling states, had not a Constitutional Convention assembled in Philadelphia in 1787. Washington was unanimously chosen president. Once more a great responsibility rested upon him.

For four months the members of the Convention debated. Bitterness of feeling evidenced in acrimonious debates might have led to failure. It re-

mained for Washington by the exercise of diplomatic speech, conciliatory language, dignity of bearing, and a world of patience to harmonize the conflicting elements and thus produce, as Gladstone said, the greatest document that was ever produced at one time by the hand and pen of man. When at last the Constitution was adopted, Washington was again called upon for his services to the country. He was unanimously chosen President of the United States.

Instantly there developed two antagonistic schools of thought, one of the extreme Federalists, the other extreme anti-Federalists. One favored a strong central government, a kind of monarchy modeled on that of England; the other resented the exercise of any power by the new government.

During his first administration, the ten amendments constituting the Bill of Rights were adopted; commerce was regulated; the public debt was settled; a national bank was established; and the new capitol was located. There was party division in the cabinet; those two great intellects, Hamilton and Jefferson, were in irreconcilable opposition to each other. It was only through universal confidence in Washington's integrity and good judgment and the ability he displayed in figuratively pouring oil upon the troubled waters that he was able to hold together the moderate men of both factions and avert a disruption then that might have wrecked the new government.

Then came the second administration with its troubles. Washington and Adams were again chosen president and vice-president. France declared war against Great Britain. There was a strong popular opinion in favor of the United States declaring her friendship for France. Those who were of that opinion said we were bound by treaty to such a course, that the good faith of the country was pledged. France had been our friend and we would be ungrateful and dishonored if we did not become her friend in this crisis. Washington thought otherwise and issued his Proclamation of Neutrality. Instantly he became the target for all manner of abuse. He was assailed personally, accused of dishonesty, and charged with being an enemy to France and republican institutions and with usurping the powers of Congress and violating the terms and spirit of a solemn treaty. The affections of the people turned from Washington to Jefferson. Washington was deeply hurt and said that he was "preparing his mind for the obloquy that disappointment and malice were collecting to heap on him."

But "happy is the man that findeth wisdom, for her ways are the ways of pleasantness and all her paths are peace". Washington found it in his great unselfishness and patriotism, his sound judgment and patient bearing with the spirits of hatred and envy. His farewell address again brought the people to their senses. Let there be no sectionalism, he said; beware of covert attacks upon the Constitution; promote education and avoid debt; as a nation have neither passionate attachments nor passionate hatreds; observe good faith and justice toward all; cultivate peace and harmony with all; give to the world the example of a people always guided by an exalted justice and benevolence. Thus he advised his people as he retired from public life.

The study of the life and character of George Washington will lead to the study of the science of a free government, the rebuilding of that indi-

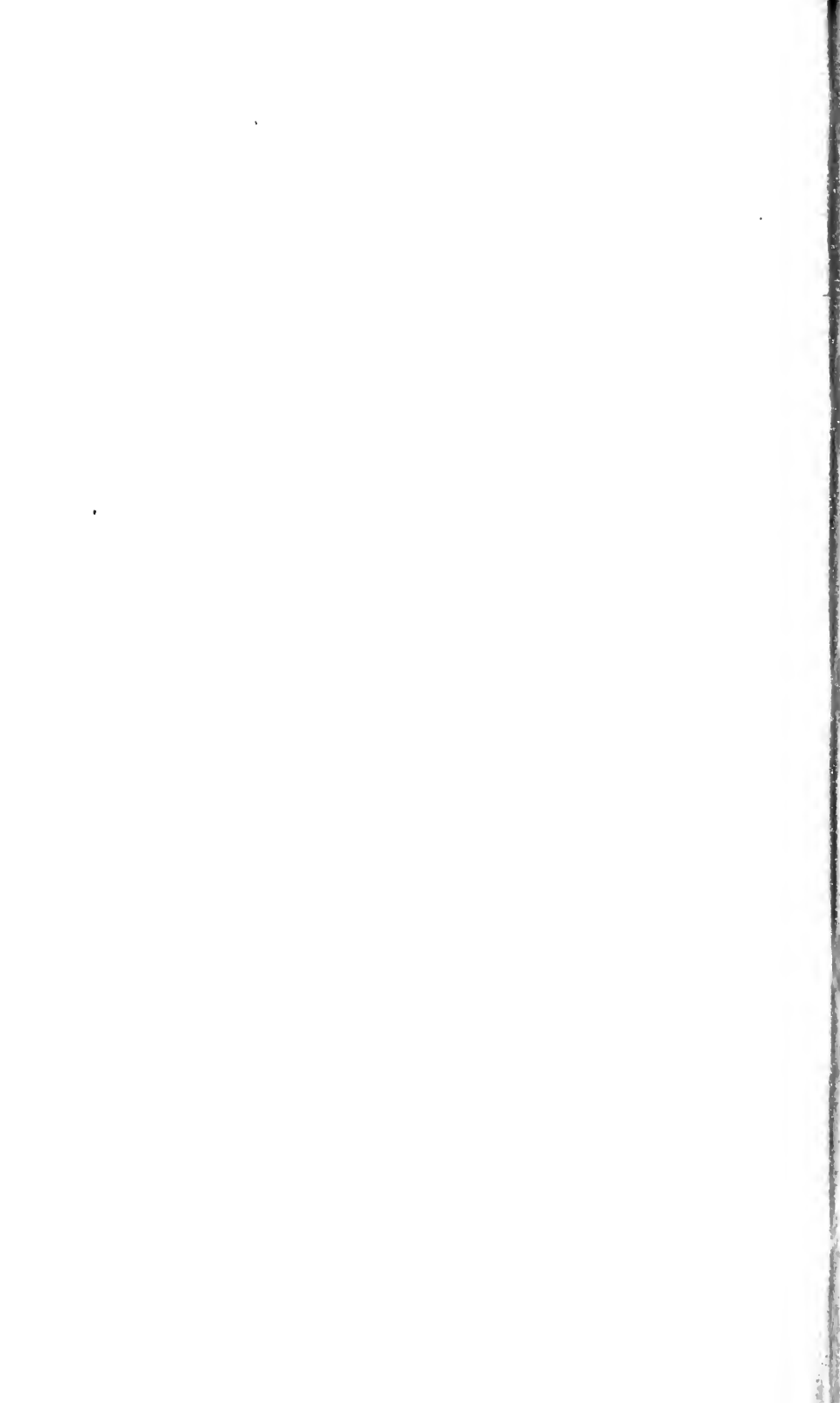
vidualism which has been the proudest boast of the American citizenry; to the detection and cure of that insidious and fatal disease in the body politic called paternalism; to the reestablishment of the integrity of the states; to the building of a wholesome public opinion and the banishment of government by commissions and bureaus in which the exercise of arbitrary power has driven counties, cities, and states to the verge of bankruptcy.

It will lead to the conviction that the Constitution is not out of date, but is still a strong and vital document guarding the rights of a free people and protecting them from the cancerous growth of privilege and special interests. It will renew our patriotism and enliven the colors and increase the brilliancy of the stars and stripes of our flag, the symbol of a government dedicated to a righteous purpose and maintained in the cause of human rights and the glorification of God.

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