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SUMMER SESSION ISSUE 1950

UNIVERSITY OF MARYLAND College Park, Maryland

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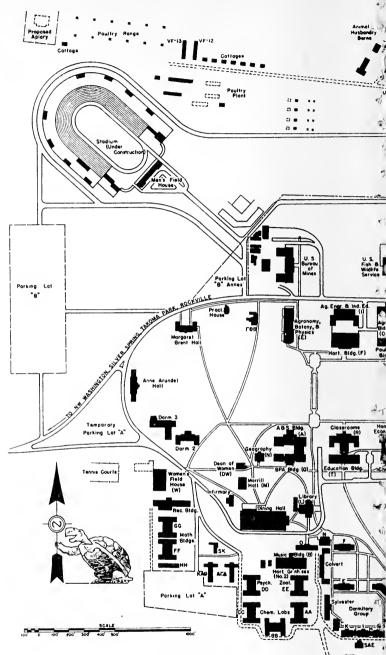
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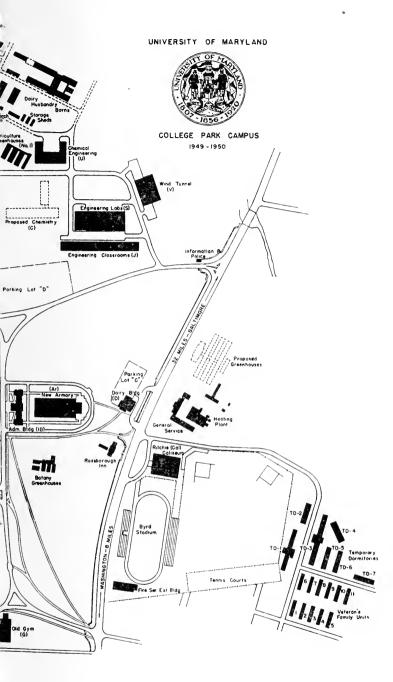
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- MITCHELL, VIOLA, A.B., DePauw University; M.A., State University of Iowa. Assistant Professor of Physical Education for Women.
- MOHR, DOROTHY R., B.S., 1932, M.A., 1933, University of Chicago; Ph.D., 1944, University of Iowa. Associate Professor of Physical Education.
- MORGAN, DELBERT T., B.S., 1940, Kent State University in Ohio; M.A., 1942, Ph.D., 1948, Columbia University. Assistant Professor of Botany.
- MORGAN, HUGH GERTHON, A.B., 1940, Furman University; A.M., 1943, Ph.D., 1946, University of Chicago. Associate Professor of Child Study.
- MOUNCE, EARL W., B.S., 1921, A.B., 1927, M.A., 1922, LL.B., 1929, University of Missouri; LL.M., 1945, National University. Associate Professor of Business Law.
- MURPHY, CHARLES D., B.A., 1929, University of Wisconsin; M.A., 1930, Harvard University; Ph.D., 1940, Cornell University. Associate Professor of English.
- MURRAY, RAY A., B.S., 1934, University of Nebraska; M.A., 1938, Ph.D., 1949, Cornell University. Associate Professor of Agricultural Education.
- NEMES, GRACIELA P., B.S., Trinity College, Burlington, Vermont; M.A., University of Maryland. Instructor in Foreign Languages.

- NEWELL, CLARENCE A., A.B., 1935, Hasting College; A.M., 1939, Ph.D., 1943, Columbia University. Professor of Educational Administration.
- NORTON, HUGH S., A.B., 1947, M.A., 1948, George Washington University. Instructor in Economics.
- NYWEIDE, GARRETT, A.B., 1928, Hope College; M.A., 1934, New York University. Director and Executive Officer, Vocational Education and Extension Board of Rockland County, New York. Visiting Lecturer in Education.
- OLEWINE, LAURENCE E., B.S., 1943, State Teachers' College, Millersville, Pa.; M.Ed., 1946, Boston University. Instructor in State Teachers College, Oswego, N. Y. Visiting Lecturer in Industrial Education.
- OWENS, ANNA BELLE, B.S., 1940, M.S., 1949, University of Maryland. Instructor in Botany.
- PATRICK, ARTHUR S., B.E., 1931, State Teachers' College, Wisconsin; M.A., 1940, George Washington University. Associate Professor, Department of Office Techniques and Management, and Business Education.
- PAWELEK, STANLEY J., B.S., 1931, A.M., 1932, University of Minnesota; Ed.D., 1941, Pennsylvania State College. Supervisor of Industrial Education, City Department of Education, Baltimore. Visiting Lecturer in Education.
- PERKINS, HUGH V., B.A., Oberlin College; M.A., University of Chicago. Assistant Professor in Child Study.
- PHILLIPS, NORMAN E., B.S., 1916, Allegheny College; Ph.D., 1931, Cornell University. Professor and Chairman, Department of Zoology.
- PICKARD, HUGH B., B.A., 1933, Haverford College; Ph.D., 1938, Northwestern University. Associate Professor of Physical Chemistry.
- PLISCHKE, ELMER, Ph.B., 1937, Marquette University; A.M., 1938, American University; Ph.D., 1943, Clark University. Associate Professor of Government and Politics.
- POSEY, WALTER BROWNLOW, Ph.B., 1923, University of Chicago; M.A., 1930, Ph.D., 1933, Vanderbilt University. Visiting Lecturer in History.
- PRATT, ERNEST F., B.A., 1937, University of Redlands; M.S., 1939, Oregon State College; M.A., 1941, Ph.D., 1942, University of Michigan. Associate Professor of Organic Chemistry.
- PRESCOTT, DANIEL A., B.S., 1920, Tufts College; Ed.M., 1922, Ed.D., 1923, Harvard University. Professor and Head of the Institute for Child Study.
- PYLE, THOMAS W., B.S., 1921, University of Pennsylvania; M.A., 1926, Columbia University. High School Supervisor, Montgomery County. Visiting Lecturer in Education.
- RANDALL, HARLAN, B.Mus., 1938, Washington College of Music. Professor of Music.

- RAPPLEYE, ROBERT D., B.S., 1941, M.S., 1947, Ph.D., 1949, University of Maryland. Instructor in Botany.
- RAY, JOSEPH M., A.B., 1932, M.A., 1933, Ph.D., 1937, University of Texas. Professor and Head, Government and Politics.
- REEVE, E. WILKINS, B.S., 1936, Drexel Institute; Ph.D., 1940, University of Wisconsin. Associate Professor of Organic Chemistry.
- REID, JAMES H., B.S., 1923, University of Iowa; M.A., 1933, American University. Professor of Marketing.
- ROBINSON, EDWARD A., B.A., 1944, St. Mary's Seminary and University; M.A., 1947, Catholic University. Instructor in Economics.
- ROBINSON, JOHN M., A.B., 1945, Middlebury College; Ph.D., 1949, Cornell University. Instructor in Philosophy.
- ROCH, JOHN HENRY, B.A., 1945, University of Massachusetts; M.A., 1947, Columbia University. Instructor in English.
- ROGERS, M. B., B.A., 1926, M.A., 1932, Ph.D., 1944, University of Michigan. Superintendent of Schools, Meriden, Connecticut. Visiting Lecturer in Education.
- ROLLINSON, CARL L., B.S., 1933, University of Michigan; Ph.D., 1939, University of Illinois. Associate Professor of Chemistry.
- SCHAEFER, WILLIS C., B.S., 1936, Ph.D., 1940, University of Chicago. Associate Professor of Psychology.
- SHANKWEILER, PAUL, Ph.B., 1919, Muhlenberg College; M.A., 1921, Columbia University; Ph.D., 1934, University of North Carolina. Associate Professor of Sociology.
- SHAW, JOSEPH C., B.S., 1930, Iowa State College; M.S., 1933, Montana State College; Ph.D., 1938, University of Minnesota. Professor of Dairy.
- SHEEHAN, THOMAS C., B.S., 1930, M.S., 1931, Boston College. Assistant Teacher-in-Charge, Visual Instruction, Public Schools of the District of Columbia. Visiting Lecturer in Education.
- SHEPHERD, JULIUS C., A.B., 1944, A.M., 1947, East Carolina Teachers' College. Instructor in Mathematics.
- SHULMAN, CORRINE L., B.S., 1947, New York University. Instructor in Nursery School Education.
- SMITH, DENZEL D., A.B., 1936, York College; M.A., 1939, Ph.D., 1941, University of Nebraska. Professor of Psychology and Director of the University Counseling Center.
- SPENCER, MABEL S., B.S., 1925, M.S., 1946, West Virginia University. Instructor in Home Economics Education.
- SPROWLS, JESSE W., A.B., 1910, Valparaiso University; B.S., 1914, University of Pittsburgh; A.M., 1918, Ph.D., 1919, Clark University. Professor of Psychology.

- STAVASKI, ANTHONY T., B.S., 1934, Fitchburg State Teachers College; M.Ed., 1939, University of Pittsburgh. Instructor in Industrial Arts, State Teachers College, California, Pennsylvania. Visiting Lecturer in Industrial Education.
- STEINMEYER, REUBEN G., A.B., 1928, Ph.D., 1935, American University. Professor of Government and Politics.
- STEWART, CHARLES T., A.B. Visiting Lecturer in Education.
- STRAUSBAUGH, W. L., A.B., Wooster College; M.A., State University of Iowa. Assistant Professor of Speech.
- STROMBERG, ROLAND N., B.A., 1939, University of Kansas City; M.A., 1945, American University. Instructor in History.
- STUNTZ, CALVIN F., B.A., 1939, Ph.D., 1947, University of Buffalo. Assistant Professor of Analytical Chemistry.
- SWARTHOUT, GLENDON, A.B., 1939, M.A., 1946, University of Michigan. Instructor in English.
- SWEENEY, CHARLES F., B.S., 1921, Cornell University; M.B.A., 1928, University of Maryland. Associate Professor of Accounting.
- SYKORA, FRANK, "Free Artist," 1918, Imperial University of Kiev, Russia. Assistant Professor of Instrumental Music.
- SYLVESTER, HAROLD F., Ph.D., Johns Hopkins University. Associate Professor of Personnel Administration.
- TAFF, CHARLES A., B.S., 1937, M.A., 1941, University of Iowa. Assistant Professor of Business Organization.
- THOMAS, BENJAMIN F., B.S., 1946, M.A., 1948, Northwestern University. Instructor in Business and Public Administration.
- THOMAS, ROYALE P., B.S., 1919, University of Illinois; M.S., 1925, Iowa State College; Ph.D., 1928, University of Wisconsin. Professor of Soils.
- TIEDEMAN, RUTH, B.A., 1929, University of California; M.A., 1932, Ed.D., 1940, Columbia University. Professor of Child Study.
- TRIGGS, FRANCES O., A.B., 1933, Lawrence College; M.A., 1935, University of Chicago; Ph.D., 1937, Syracuse University. Associate Professor of Psychology and Assistant Director of the University Counseling Center.
- VANDERSLICE, JOHN L., B.S., 1938, A.M., 1930, University of Pennsylvania; Ph.D., 1934, Princeton University. Associate Professor of Mathematics.
- WALKER, ROBERT Y., B.A., 1929, M.A., 1930, University of Oregon; Ph.D., 1933, State University of Iowa. Associate Professor of Psychology.
- WALKER, SARAH, A.B., 1936, Catawba College; M.S., 1945, University of North Carolina. Visiting Lecturer in Physical Education.
- WALL, GUSTAVE S., B.S., 1931, M.A., 1937, University of Minnesota. Associate Professor of Industrial Education.

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- WATSON, J. DONALD, B.A., 1926, Reed College; M.B.A., 1931, University of Michigan; C.L.U., 1940, American College of Life; Ph.D., 1941, Northwestern University. Professor of Finance.
- WEBER, JULIA, B.A., 1933, New Jersey College for Women; M.A., 1940, Teachers College, Columbia University. Assistant Professor of Child Study.
- WEDEBERG, SIVERT M., B.B.A., 1925, University of Washington; A.M., 1936, Yale University; C.P.A. Professor of Accounting.
- WELLBORN, FRED W., B.A., 1918, Baker University; M.A., 1923, University of Kansas; Ph.D., 1926, University of Wisconsin. Professor of History.
- WHARTON, JAMES P., A.B., Wofford College, Duke University; Graduate, Maryland Institute of Fine Arts. Professor and Head, Department of Fine Arts.
- WIGGIN, GLADYS A., B.S., 1929, A.M., 1939, University of Minnesota; Ph.D., 1947, University of Maryland. Associate Professor of Education.
- WIGGIN, RICHARD G., B.S., 1939, A.M., 1947, University of Minnesota. Formerly Instructor in Art Education, University of Minnesota. Visiting Lecturer in Art Education.
- WILBUR, JUNE C., B.S., 1936, B.S. in Education, 1937, University of Washington; M.S., 1940, Syracuse University. Assistant Professor of Textiles and Clothing.
- WILEY, RAYMOND C., B.S., 1905, Oklahoma Agricultural and Mechanical College; M.S., 1922, University of Maryland; Ph.D., 1927, American University. Associate Professor of Analytical Chemistry.
- WISHER, PETER, B.S., 1934, Stroudsburg Teachers College; M.Ed., 1938, Pennsylvania State College. Instructor in Physical Education.
- WOODBURY, MAYNARD, B.S.C., 1946, M.A., 1947, University of Iowa. Instructor in Business and Public Administration.
- WOODS, ALBERT W., B.S., 1933, M.Ed., 1949, University of Maryland. Associate Professor of Physical Education.
- WORTHLEY, JEAN R., A.B., 1944, Goucher College; M.S., 1948, University of Massachusetts. Visiting Lecturer in Physical Education.
- ZEEVELD, W. GORDON, A.B., 1924, University of Rochester; M.A., 1929, Ph.D., 1936, Johns Hopkins University. Associate Professor of English.

SUMMER SESSION, 1950-CALENDAR

June 23, Friday-Registration of new graduate students.

June 24, 26, Saturday morning and Monday-Registration of all undergraduate students and matriculated graduate students.

June 27, Tuesday-Classes begin.

July 1, Saturday-Classes as usual.

July 4, Tuesday-Holiday.

July 8, Saturday—Classes as usual.

August 4, Friday-Close of Summer Session.

SUMMER SESSION

Harold Benjamin, Ph.D., Director Alma Frothingham, Secretary

The 1950 Summer Session of the University of Maryland will open with registration on Monday, June 26, and extend for six weeks, ending Friday, August 4.

In order that there may be 30 class periods for each full course, classes will be held on Saturday, July 1 and July 8, to make up for time lost on registration day and July 4, which is a holiday.

TERMS OF ADMISSION

Teachers and special students not seeking degrees are admitted to the courses of the Summer Session for which they are qualified.

The admission requirements for those who desire to become candidates for degrees are the same as for other sessions of the University. Before registering, a candidate for a degree will be required to be admitted to the University. He should see Dr. E. F. Long, Director of Admissions, and also should consult the Dean of the College in which he seeks a degree.

Graduates of accredited normal schools with satisfactory normal school records may be admitted to advanced standing in the College of Education. The objectives of the individual student determine the exact amount of credit allowed. The student is given individual counsel as to the best procedure for fulfilling the requirements for a degree.

Candidates for admission to the Graduate School should file applications with the Dean of the Graduate School as long as possible in advance of registration and should have transcripts of their undergraduate records sent to the Dean of the Graduate School at the time of filing applications for admission.

ACADEMIC CREDIT

The semester hour is the unit of credit. During the Summer Session a course meeting five times a week for six weeks requiring the standard amount of outside work is given a weight of two semester hours.

Students who are matriculated as candidates for degrees will be given credit towards the appropriate degree for satisfactory completion of courses. All courses offered in the Summer Session are creditable towards the appropriate degree.

Teachers and other students not seeking degrees will receive official reports specifying the amount and quality of work completed. These reports will be accepted by the Maryland State Department of Education and by the appropriate education authorities in other states for the extension and renewal of certificates in accordance with their laws and regulations.

NORMAL AND MAXIMUM LOADS

Six semester hours is the normal load for the Summer Session. Undergraduate students in the College of Education and teachers in service may take a maximum of eight semester hours if they have above-average grades. Extra tuition is charged for loads over six semester hours. For details, see "Tuition and Fees."

REGISTRATION

Registration for undergraduate and graduate students will take place on Saturday, June 24, from 8:30 A. M. to 1 P. M., and Monday, June 26, from 8:30 A. M. to 3:30 P. M. *Graduate students who are not matriculated* should register on Friday, June 23, and Saturday morning, June 24, and should report to the office of the Graduate Dean, 214 Education Building.

Teachers and other Summer Session students who are not candidates for degrees will register in the office of the Director of the Summer School, Education Building. Regular undergraduate students will register in the offices of their respective deans. After registration materials have been completed and approved, bills will be issued and fees paid at the offices of the Registrar and Cashier in the Armory.

Instruction will begin on Tuesday, June 27, at 8:00 A. M. The late registration fee on Tuesday, June 27, will be \$3.00; thereafter, it will be \$5.00.

Students who intend to become candidates for degrees and have not previously been matriculated in the University should report before registration to the Director of Admissions, Dr. E. F. Long, in the Administration Building. Such students will find it advantageous to make arrangements for admission in advance by mail.

TUITION AND FEES

Undergraduate Students

General Tuition Fee	\$40.00
This fee entitles the student to 6 semester hours of work,	·
the general recreational program, and the use of a post office box.	
Non-residence Fee	15.00
Must be paid by all students who are not residents of	
Maryland.	

Matriculation Fee	\$10.00
Payable only once, upon admission to the University.	
Every student must be matriculated.	
Special Tuition Fees	
For load of 4 semester hours or less, or for additional credits over 6 semester hours, per semester hour	8.00
Recreation Fee Required of all students registered in the Summer School; included in "General Fee" of students carrying 6 semester hours or more.	1.00
Graduate Students	
General Tuition Fee	40.00
This fee entitles the student to 6 semester hours of work, the general recreational program, and the use of a post office box.	
Matriculation Fee Payable only once, upon admission to the Graduate School.	10.00
Special Tuition Fee For load of 4 semester hours or less, per semester hour	8.00
Recreation Fee Required of all students registered in the Summer School; included in "General Fee" of students carrying 6 semester hours or more.	1.00
Miscellaneous Information	

There is no non-residence fee for graduate students.

- Auditors pay the same fees as regular students except that no charge is made to students who have paid the general fee.
- The diploma fee is \$10.00 for bachelors' and masters' degrees, and \$30.00 for doctors' degrees.
- A fee of \$3.00 is charged for each change in program after July 1st. If such changes involve entrance to a course, they must be approved by the instructor in charge of the course entered. Courses cannot be dropped after July 15th.
- A special laboratory fee may be charged for certain courses where such fee is noted in the course description.
- All laboratory courses in chemistry carry a laboratory fee of \$10.00; in addition the student is charged for any apparatus which cannot be returned to the stock room in perfect condition. Other laboratory fees are stated in connection with individual courses.

FEES FOR INSTITUTE OF COSMETOLOGY

Tuition fee for course..... \$50.00

FEES FOR NURSERY SCHOOL—KINDERGARTEN

Children 3 to 6 years..... \$15.00

LIVING ACCOMMODATIONS-MEALS

Dormitory accommodations are available as follows:

Regular Dormitories (WOMEN), \$30 per term (maid service).

Regular Dormitories (MEN), \$20 per term (no maid service).

Board, \$60 per term (Regular Dormitory occupants required to eat in University Dining Hall).

Temporary Dormitories (MEN), \$20 per term (no maid service). (Temporary Dormitory occupants may take their meals off campus.)

THE UNIVERSITY DORMITORIES WILL NOT BE OPEN FOR OCCUPANCY UNTIL 12 O'CLOCK NOON, SUNDAY, JUNE 25.

Early application for reservations is advisable, as only those who have made reservations will be assured that rooms are ready for their occupancy. Rooms will not be held later than noon of Tuesday, June 27. For reservations write to Miss Marian Johnson, Assistant Dean of Women, or Mr. Robert C. James, Men's Dormitory Manager. Do not send a deposit for room.

Students attending the Summer School and occupying rooms in the dormitories will provide themselves with towels, pillows, pillow cases, sheets, blankets, bureau scarf, desk blotter, and waste basket. Trunks for the men's dormitories should be marked with name and addressed to "Men's Dormitories." Trunks for the women's dormitories should include name of dormitory and room number if it has been assigned in advance. Trunks sent by express should be prepaid. Cleanliness and neatness of rooms is the responsibility of the individual.

OFF-CAMPUS HOUSING

A few off-campus rooms are available. Inquiries concerning them should be addressed to Mr. Doyle Royal, Office of Director of Student Welfare. He will furnish the names of those householders to whom students should write to make their own arrangements.

University Cafeteria meal service will be available to those summer school students who are commuting and those who live in off-campus houses.

The University assumes no responsibility for rooms and board offered to Summer Session patrons outside of the University dormitories and dining room. Eating establishments in the vicinity are inspected by the County Health Service.

CANCELLATION OF COURSES

Courses may be cancelled if the number of students enrolled is below certain minima. In general, freshman and sophomore courses will not be maintained for classes smaller than 20. Minimum enrollments for upper level undergraduate courses and graduate courses will be 15 and 10 respectively.

UNIVERSITY OF MARYLAND

WITHDRAWAL AND REFUND OF FEES

Any student compelled to leave the University at any time should file an application for withdrawal, bearing the proper signatures, in the office of the Registrar. If this is not done, the student will not be entitled, as a matter of course, to a certificate of honorable dismissal, and will forfeit his right to any refund to which he would otherwise be entitled. The date used in computing refunds is the date the application for withdrawal is filed in the office of the Registrar.

In the case of a minor, withdrawal will be permitted only with the written consent of the student's parent or guardian.

Students withdrawing from the University will receive a refund of all charges, except board and lodging, less the matriculation fee in accordance with the following schedule:

Period from Date Instruction Begins	Percentage Refundable
One week or less	. 60%
Between one and two weeks	.20%
Over two weeks	. 0

Board and lodging are refunded only in the event the student withdraws from the University. Refunds of board and lodging are made on a pro-rata, weekly basis. Dining Hall cards issued to boarding students must be surrendered at the Dining Hall office the day of withdrawal.

STUDENT HEALTH

The University Infirmary, located on the campus, in charge of the regular University physician and nurse, provides medical service of a routine nature for the students in the Summer Session. Students who are ill should report promptly to the University Infirmary, either in person or by phone (Extension 326).

PARKING OF AUTOMOBILES

For the use of students, staff members, and employees, several parking lots are provided. The University rules forbid the parking of cars on any of the campus roads. These rules are enforced by State police.

SUMMER GRADUATE WORK

Masters' degrees are offered through the Graduate School as follows:

- Master of Arts
- Master of Sciences
- Master of Arts in American Civilization
- Master of Education
- Master of Business Administration
- Master of Foreign Study

Doctors' degrees offered through the Graduate School are as follows:

- Doctor of Philosophy
- Doctor of Education

Graduate work in the Summer School may be counted as residence toward a Master's degree or Doctor of Education degree. A full year of residence or the equivalent is the minimum requirement for each degree.

The requirements for each of the eight degrees above may be procured from the Graduate School upon request.

Special regulations governing graduate work in Education and supplementing the statements contained in the Graduate School Announcements are available in duplicated form and may be obtained at the College of Education. Each graduate student in Education should have a copy. Students seeking the Master's degree as a qualification for a certificate issued by the Maryland State Department of Education or any other certifying authority should consult the appropriate bulletin for specific requirements. Advisers will assist students in planning to meet such requirements.

All students desiring graduate credit, whether for meeting degree requirements, for transfer to another institution, or for any other purpose, must be regularly matriculated and registered in the Graduate School.

CANDIDATES FOR DEGREES

Undergraduate students who expect to complete their requirements for baccalaureate degrees during the Summer Session should make application for diplomas at the office of the Registrar during the first two weeks of the Summer Session.

UNIVERSITY BOOKSTORE

For the convenience of students, the University maintains a students' supply store, located in the basement of the Administration Building, where students may obtain at reasonable prices textbooks, stationery, classroom materials and equipment, confectionery, etc.

Students are advised not to purchase any textbooks until they have been informed by their instructors of the exact texts to be used in the various courses, as texts vary from year to year.

The bookstore operates on a cash basis.

NURSING EDUCATION IN BALTIMORE

Several courses in the field of Nursing Education will be offered as a part of the Summer School in the School of Nursing in the University of Maryland in Baltimore. The instructor will be Miss Gladys Sellew, Ph.D., R.N. Registration for these courses will be made through Miss Florence Gipe, Head, School of Nursing, University of Maryland, Lombard and Greene Streets, Baltimore.

INSTITUTE FOR CHILD STUDY SUMMER WORKSHOP

The Institute for Child Study offers a summer workshop designed for those persons who have been actively engaged in the Child Study Program sponsored by the Institute and for those persons who are interested in participating in such a program. The summer experiences will provide opportunities for increasing knowledge of scientific concepts that explain behavior and for applying this knowledge to concrete school and community situations.

For further information write to the Institute for Child Study, College of Education, University of Maryland, College Park.

NURSERY SCHOOL-KINDERGARTEN

A nursery school for children from 3 to 5 years of age and a kindergarten for those from 5 to 6 years operates during the forenoon in Buildings FF and HH for the duration of the Summer Session. These schools are open to children of the community and to children whose parents are students or teachers in the Summer Session. The enrollment must be limited to the number that can be accommodated in the rooms available. Children will be accepted in the order of the filing of applications, which may be obtained from Miss Edna B. McNaughton, College of Education, College Park, Maryland. Applications should be filed before May 25, 1950.

Children whose applications have been accepted should be brought to Building HH the morning of June 26. Tuition fees for each child are \$15.00 for the session.

These schools become the basis for courses for teachers for early childhood schools.

THE PROGRAM IN AMERICAN CIVILIZATION

Work in American Civilization is required of freshmen and sophomores and is offered for election to juniors, seniors, and graduates. Freshmen and sophomores study literature, history, sociology, and political science (Eng. 1, 2, and 3, 4 or 5, 6; Hist. 5, 6; Soc. 1; G. & P. 1). Upper class students may elect a combined major-minor in American Civilization stressing literature, history, sociology, or government and politics. Graduate students may take masters' or doctors' degrees in American Civilization.

The principal objectives of American studies are broadly cultural rather than professional; but the work is an excellent preparation for many occupations such as teaching, writing, government service, and the law. For additional information, address an inquiry to the Chairman of the Committee on American Civilization.

CONFERENCES, INSTITUTES AND WORKSHOPS

The Parent-Teacher Association Summer Conference-July 10-13

The College of Education will cooperate with the Maryland Congress of Parents and Teachers in planning their convention to be held this summer on the University campus. The theme of the meeting will be: "A.B.C.'s of P.T.A." Persons of national reputation will be present as speakers and discussion leaders at the conference.

Office Management Institute

The University of Maryland in cooperation with the Baltimore and Washington Chapters of the National Office Management Association and the National Education Committee of NOMA, will conduct a four-day institute on the College Park campus of the University of Maryland during the week of July 17. The Institute will deal with supervisory training and scientific methods and procedures in office management.

The institute is open to teachers and students who for vocational reasons are interested in becoming more familiar with the functions of office management in private business and government. It will also be of value to those teachers and students preparing to teach business subjects on both the secondary school and collegiate levels.

Men of national reputation and wide experience in the field of office management have been secured to serve on the faculty of the Institute.

Institute of Cosmetology-July 10 to August 4

First-Year Course-Qualifications-Licensed Cosmetologist

Second-Year Course-Qualifications-Completion of Cosmetology I

Four weeks course, Monday through Friday, 9:00 A. M. to 3:30 P. M., with extra laboratory work if desired. Tuition for course, \$50.00. Director: Mrs. Louise M. Valench; staff, Dr. Francis A. Ellis, Mr. Paul Desautels, Mr. Robert Fiance, Mr. Ballard Crooker, and Dr. Stanley Pawelek.

- 1. Dermatology—Anatomy, functions, diseases and disorders of skin, hair, and nails.
- 2. Sanitation and Sterilization-Bacteriology, hygiene.
- 3. Chemistry—Composition and analysis of materials used in cosmetology.
- 4. Psychology and Teaching Methods-Including aptitude tests.
- 5. Art of Hair Styling—Permanent waving, cutting, combing, and adaptation of hair styles.
- 6. Art-Sketching and the art of make-up.

WORKSHOP IN HOME MANAGEMENT

June 26 to July 8, inclusive. (Without credit.) General fee \$10.00; laboratory fee \$7.00. See page 50.

AGRICULTURAL ECONOMICS AND MARKETING

A. E. 109. Research Problems (1-2). To be arranged. (DeVault.) With the permission of the instructor, students will work on any research problems in agricultural economics. There will be occasional conferences for the purpose of making reports on progress of work.

A. E. 200. Special Problems in Farm Economics (2). To be arranged. (DeVault.) An advanced course dealing extensively with some of the economic problems affecting the farmer, such as land values, taxation, credit, prices, production adjustments, transportation, marketing and cooperation.

A. E. 203. Research. Credit according to work accomplished. (Staff.)

Students will be assigned research in agricultural economics under the supervision of the instructor. The work will consist of original investigaton in problems of agricultural economics.

A. E. S216. Advanced Farm Management (1). First three weeks. Part B. 10:00; O-236.

An advanced course in farm organization and management, especially designed for teachers of vocational agriculture.

AGRICULTURAL EDUCATION AND RURAL LIFE

The three-week courses in Agricultural Education and Rural Life which follow are offered primarily for teachers of vocational agriculture, county agents and others interested in the professional and cultural development of rural communities. The normal load in such a program is three courses, which gives three units of credit. The courses of this department are offered in a cycle. By pursuing such a program successfully for four summers, a student will be able to earn 12 semester hours, a minimum major in this field, and could then return for two full summer sessions or one semester of regular school or for four more summers of three weeks each to complete the remaining 12 hours required for the Master's degree. These courses are arranged to articulate with the three-week courses in Agricultural Economics and Marketing, Agronomy, Animal Husbandry, Botany, Dairy Husbandry, Entomology, Horticulture and Poultry.

In 1950 the three-week period will start on June 27. Registration is with regular summer school students on June 24 or 26.

R. Ed. S207 A-B. Problems in Teaching Vocational Agriculture (1-1). First three weeks. Part A. 10:00; O-138. (Ahalt.)

A critical analysis of current problems in the teaching of vocational agriculture with special emphasis upon recent developments in all-day programs.

R. Ed. S208 A-B. Problems in Teaching Farm Mechanics (1-1). First three weeks. Part A. 1:00 to 3:00. I. (Gienger.)

This course deals with the latest developments in the teaching of Farm Mechanics. Various methods in use will be compared and studied under laboratory conditions.

R. Ed. S210 A-B. Land Grant College Education (1-1). First three weeks. Part B. 12:00; O-138. (Ahalt.)

Development of Land Grant Colleges and Experiment Stations and the role they have played in improving conditions in rural communities.

R. Ed. S213 A-B. Supervision and Administration of Vocational Agriculture (1-1). First three weeks. Part A. 9:00; O-138. (Murray.)

Administrative and supervisory problems in Vocational Agriculture including scheduling, local administrative programs, supervisor-teacher relationships, organizational problems and the responsibilities of county superintendents and principals in the program.

AGRONOMY

Agron. 208. Research Methods in Agronomy (2). (Staff.)

Development of research viewpoint by detailed study and report on crop research of the Maryland Experiment Station, review of literature, or original work by the student on specific phases of a problem.

Agron. 209. Research (4-8).

Credit according to work accomplished. With approval or suggestion of the head of the department the student will choose his own problem for study.

Soils 101. Soil Management (1). 8:00; E-102. (Thomas.)

An advanced course primarily designed for teachers of Vocational Agriculture and County Agents dealing with factors involved in management of soils in general and of Maryland soils in particular. Emphasis is placed on methods of maintaining and improving chemical, physical, and biological characteristics of soils. Illustrations with conservation practices receive particular attention.

Soils 201. Special Problems and Research (10-12). (Thomas.)

ANIMAL HUSBANDRY

A. H. 172. Special Problems in Animal Husbandry (1-2). Credit given in proportion to amount of work completed. No graduate credit allowed. Prerequisite, approval of Staff. (Staff.)

A course designed for advanced undergraduates in which specific problems relating to Animal Husbandry will be assigned.

A. H. 201. Special Problems in Animal Husbandry (1-2). Credit given in proportion to amount of work completed. (Green.)

Problems which relate to the character of work the student is pursuing will be assigned.

A. H. 204. Research (1-6). Credit determined by the amount and character of work done. (Staff.)

With the approval of the head of the department, students will be required to pursue original research in some phase of Animal Husbandry, carrying the same to completion, and report the results in the form of a thesis.

(Staff.)

ART

Art 1. Charcoal Drawing (Antique) (3). M., T., W., Th., 1:00, 2:00, 3:00; A-309. (Maril and Wharton.)

Drawing from cases, preparatory to life and portrait drawing and painting. Stress is placed on fundamental principles, such as the study of relative proportions, values, and modeling.

Art 2. Charcoal Drawing (3). M., T., W., Th., 1:00, 2:00, 3:00; A-309. (Wharton and Maril.)

Drawing from model (head and figure) with emphasis on structure and movement.

Art 5 or 6. Still Life (3 or 3). M., T., W., Th., 1:00, 2:00, 3:00; A-310. (Wharton.)

First half semester of Art 5, 6 devoted to elementary theory and practice of drawing. Methods of linear and tonal description with emphasis on perspective and light-and-shade. Second half semester, elementary theory and practice oil painting. Elementary theory and practice of composition introduced and utilized.

Art 16. Art Appreciation (2). T., 9:00, 10:00, 11:00; Th., 10:00, 11:00; A-300. (Maril.)

A course designed to help the student to a fuller appreciation and greater enjoyment of art. It investigates the organic forms and backgrounds of painting, sculpture, and architecture.

Art 102 or 103. Creative Painting (3 or 3). M., T., W., Th., 1:00, 2:00, 3:00; A-309. Prerequisites, Art 1, 2, 5 and 6. (Wharton and Maril.)

Assignments of pictorial compositions aimed at both mural decoration and easel picture problems. Emphasis on the psychological and sociological angles of pictorial composition, involving some research.

BACTERIOLOGY

Bact. 1. General Bacteriology (4.) Five lectures and five two-hour laboratory periods a week. Lecture, 8:00; T-314; laboratory, 9:00, 10:00; T-311. Laboratory fee, \$10.00. (Doetsch.)

The physiology, culture, and differentiation of bacteria. Fundamental principles of microbiology in relation to man and his environment.

Bact. 5. Advanced General Bacteriology (4). Five lectures and five twohour laboratory periods a week. Lecture, 9:00; T-314; laboratory, 10:00, 11:00; T-307. Prerequisites, Bact. 1 and Chem. 3. Laboratory fee, \$10.00. (Laffer.)

Emphasis will be given to the fundamental procedures and techniques used in the field of bacteriology with drill in the performance of these techniques. Lectures will consist of the explanation of various laboratory procedures.

SUMMER SCHOOL

Bact. 181. Bacteriological Problems (3). Eight two-hour laboratory periods a week. To be arranged. Prerequisites, 16 credits in bacteriology. Registration only upon consent of the instructor. Laboratory fee, \$10.00.

(Faber.)

This course is arranged to provide qualified undergraduate majors in bacteriology and majors in allied fields an opportunity to pursue specific bacteriological problems under the supervision of a member of the department.

Bact. 291. Research. Prerequisites, 30 credits in bacteriology. Laboratory fee, \$10.00. (Staff.)

Credits according to work done. The investigation is outlined in consultation with and pursued under the supervision of a senior staff member of the department.

BOTANY

Bot. 1. General Botany (4). Five lectures and five two-hour laboratory periods per week. Lecture, 11:00; E-115; laboratory, 8:00; E-235. Laboratory fee, \$5.00. (Owens.)

General introduction to botany, touching briefly on all phases of the subject. The chief aim in this course is to present fundamental biological principles rather than to lay the foundation for professional botany. The student is also acquainted with the true nature and aim of botanical science, its methods and the value of its results.

Bot. 151S. Teaching Methods in Botany (2). Five lecture periods per week: 8:00; E-237. Prerequisite, Bot. 1 or equivalent. Laboratory fee, \$5.00. (Owens.)

A study of the biological principles of common plants, and demonstrations, projects, and visual aids suitable for teaching in primary and secondary schools.

Bot. 152S. Field Plant Pathology (1). Daily lecture first three weeks, 11:00; E-307. Prerequisite, Bot. 20 or equivalent. Laboratory fee, \$5.00

(Cox and Staff.)

A course for county agents and teachers of vocational agriculture. Discussion and demonstration of the important diseases of Maryland crops.

Bot. 206. Research, Physiology. (Credit according to work done.) Students must be qualified to pursue with profit the research to be undertaken. (Gauch.)

Bot. 214. Research, Morphology. (Credit according to work done.) (Morgan and Rappleye.)

Bot. 225. Research in Pathology. (Credit according to work done.) (Jeffers and Cox.)

BUSINESS AND PUBLIC ADMINISTRATION

B. A. 10. Organization and Control (2). Daily, 11:00; Q-147.

(Clemens.)

A survey course treating the internal and functional organization of a business enterprise.

B. A. 11. Organization and Control (2). Daily, 9:00; Q-31. (McLarney.) Includes industrial management, organization and control.

B. A. 20. Principles of Accounting (4). Daily, 8:00, 9:00; Q-28. Prerequisite, sophomore standing. (Wedeberg.)

B. A. 21. Principles of Accounting (4). Daily, 8:00, 9:00; Q-29. Prerequisite, B. A. 20. (Chambers.)

The fundamental principles and problems involved in accounting for proprietorships, corporations and partnerships.

B. A. 110. Intermediate Accounting (3). Daily, 10:00; M., W., F., 11:00; Q-28. Prerequisite, a grade of B or better in B. A. 21, or consent of instructor for majors in accounting. (Woodbury.)

B. A. 111. Intermediate Accounting (3). Daily, 8:00; M., W., F., 9:00; Q-29A. (Woodbury.)

A comprehensive study of the theory and problems of valuation of assets, application of funds, corporation accounts and statements, and the interpretation of accounting statements.

B. A. 121. Cost Accounting (4). Daily, 10:00, 11:00; Q-29. Prerequisite, a grade of B or better in B. A. 21, or consent of instructor for majors in accounting. (Sweeney.)

A study of fundamental principles of cost accounting, including job order, process and standard cost accounting.

B. A. 130. Elements of Business Statistics (3). Daily, 8:00; M., W., F., 9:00; Q-243. Prerequisite, junior standing. Required for graduation. (Ash.)

This course is devoted to a study of the fundamentals of statistics. Emphasis is placed upon the collection of data; hand and machine tabulation; graphic charting; statistical dsitribution; averages; index numbers; sampling; elementary tests and reliability and simple correlations.

B. A. 140. Financial Management (3). Daily, 12:00; M. W., F., 1:00; Q-146. Prerequisite, Economics 140. (Calhoun.)

This course deals with principles and practices involved in the organization, financing, and reconstruction of corporations, the various types of securities and their use in raising funds, apportioning income, risk, and control; intercorporate relations; and new developments. Emphasis on solution of problems of financial policy faced by management.

B. A. 150. Marketing Management (3). Daily, 8:00; M., W., F., 9:00; Q-148. Prerequisite, Economics 150. (Reid.)

SUMMER SCHOOL

A study of the work of the marketing division in a going organization. The work of developing organizations and procedures for the control of marketing activities are surveyed. The emphasis throughout the course is placed on the determination of policies, methods, and practices for the effective marketing of various forms of manufactured products.

 B. A. 160. Personnel Management (3). Prerequisite, Economics 160.

 Section 1—Daily, 10:00; M., W., F., 11:00; Q-148.
 (H. Sylvester.)

 Section 2—Daily, 1:00; M., W., F., 2:00; Q-148.
 (H. Sylvester.)

This course deals essentially with functions and administrative relationships between management and the labor force. It comprises a survey of the scientific selection of employees, "in-service" training, job analysis, classification and rating, motivation of employees, employee adjustment, wage incentives, employee discipline and techniques of supervision, and elimination of employment hazards.

B. A. 165. Office Management (3). Daily, 8:00; M., W., F., 9:00; Q-140. Prerequisite, B. A. 11 or junior standing. (Patrick.)

Considers the application of the principles of scientific management in their application to office work.

B. A. 166. Business Communications (3). Daily, 10:00; M., W., F., 11:00; Q-30. Prerequisite, junior standing. (Thomas.)

The systems of communications used in modern business; techniques of communication forms, administrative memorandums, order, bulletin, digest, reports; communication problems in production, marketing, personnel administration, and public relations.

B. A. 169. Industrial Management (3). Daily, 10:00; M., W., F., 11:00. Q-31. Prerequisites, B. A. 11 and B. A. 160 (McLarney.)

Studies the operation of a manufacturing enterprise. Among the topics covered are product development, plant location, plant layout, production planning and control, methods analysis, time study, job analysis, budgetary control, standard costs, and problems of supervision. An inspection trip to large manufacturing plant is made at the latter part of the semester.

B. A. 170. Transportation I (3). Daily, 1:00; M., W., F., 2:00; Q-31. Prerequisite, Econ. 32 or 37. (Taff.)

This course is designed for students of Transportation, Public Administration, and General Business. It covers the world practices in the regulation and control of transportation facilities.

B. A. 181. Business Law (4). Daily, 8:00, 9:00; Q-30. Prerequisite, senior standing. Required in all Business Administration curriculums.

(Mounce.)

Legal aspects of business relationships, contracts, negotiable instruments, agency, partnerships, corporations, real and personal property, and sales.

Econ. 5. Economic Developments (2). Daily, 10:00; Q-147. (Robinson.)

An introduction to modern economic institutions—their origins, development, and present status. Commercial revolution, industrial revolution, and age of mass production. Emphasis on developments in England, Western Europe and the United States.

Econ. 31. Principles of Economics (3). Daily, 8:00; M., W., F., 9:00; Q-147. Prerequisite, sophomore standing. (Gruchy.)

A general analysis of the functioning of the economic system. A considerable portion of the course is devoted to a study of basic concepts and explanatory principles. The remainder deals with the major problems of the economic system.

Econ. 32. Principles of Economics (3). Daily, 1:00; M., W., F., 2:00; Q-30. Prerequisite, Econ. 31. (Robinson.)

Econ. 140. Money and Banking (3). Daily, 8:00; M., W., F., 9:00; Q-146. Prerequisite, Econ. 32 or 37. (Watson.)

A study of the organization, functions, and operation of our monetary, credit, and banking system; the relation of commercial banking to the Federal Reserve System; the relation of money and credit to prices; domestic and foreign exchange and the impact of public policy upon banking and credit.

Econ. 150. Marketing Principles and Organization (3). Daily, 10:00; M., W., F., 11:00; Q-146. Prerequisite, Econ. 32 or 37. (Cook.)

This is an introductory course in the field of marketing. Its purpose is to give a general understanding and appreciation of the forces operating, institutions employed, and methods followed in marketing agricultural products, natural products, services, and manufactured goods.

Econ. 160. Labor Economics (3). Daily, 12:00; M., W., F., 1:00; Q-140. Prerequisites, Econ. 32 or 37. (Norton.)

The historical development and chief characteristics of the American labor movement are first surveyed. Present-day problems are then examined in detail: wage theories, unemployment, social security, labor organization, collective bargaining.

Econ. 171. Economics of American Industry (3). Daily, 8:00; M., W., F., 9:00; Q-28A. Prerequisites, Econ. 32 or 37. (Clemens.)

A study of the technology, economics and geography of twenty representative American industries.

O. T. 1. Principles of Typewriting (2). Daily, 8:00, 9:00; Q-143. Laboratory fee, \$7.50. (Thomas.)

The goal of this course is the attainment of the ability to operate the typewriter continuously with reasonable speed and accuracy by the use of the "touch system." This course should be completed prior to enrollment in O. T. 112, Principles of Shorthand.

CHEMISTRY

All laboratory courses in chemistry carry a laboratory fee of \$10.00; in addition the student is charged for any apparatus which cannot be returned to the stock room in perfect condition.

Chem. 3. General Chemistry (4). Five lectures and five three-hour laboratory periods per week. Prerequisite, Chem. 1. Lecture, 11:00; BB-5; laboratory, 1, 2, 3; AA-6. (Rollinson.)

Chem. 19. Quantitative Analysis (4). Five lectures and five three-hour laboratory periods per week. Prerequisite, Chem. 1 and 3. Lecture, 9:00; E-116; laboratory, 10, 11, 12; K-231. (Stuntz.)

Chem. 37. Elementary Organic Chemistry (2). Five lectures per week. Prerequisite, Chem. 35. 8:00; BB-5. (Reeve.)

Chem. 38. Elementary Organic Laboratory (2). Five three-hour laboratory periods per week. 9, 10, 11. CC-6. (Reeve.)

Chem. 142. Advanced Organic Laboratory (2). Five three-hour laboratory periods per week. Prerquesites, Chem. 19 or 23 and Chem. 37 and 38. Laboratory periods arranged. K-310. (Pratt.)

Chem. 146. Identification of Organic Compounds (2). Five three-hour laboratory periods per week. Prerequisites, Chem. 141 and 142. Laboratory periods arranged; K-310. (Pratt.)

Chem. 166 and 167. Food Analysis (3). Three lectures and five threehour laboratory periods per week. Prerequisites, Chem. 19, 31, 32, 33, 34. Lecture, M., W., F., 10:00; BB-5. Laboratory periods arranged. (Wiley.)

Chem. 254. Advanced Organic Preparations (2 to 4). Five to ten threehour laboratory periods per week. Laboratory periods arranged; K-310.

(Pratt.)

Chem. 258. The Identification of Organic Compounds, an advanced course (2 to 4). Five to ten three-hour laboratory periods per week. Laboratory periods arranged; K-310. Two recitations per week. Arranged. (Pratt.)

Chem. 295. Heterogenous Equilibria (2). Five lectures per week, 11:00; R-103. (Pickard.)

(Staff.)

Chem. 360. Research.

DAIRY

Dairy 124. Special Problems in Dairying (2-4). Arranged. Prerequisites, students majoring in dairy husbandry, Dairy 1 and 101; students majoring in dairy products technology, Dairy 1, 108 and 109. Credit in accordance with the amount and character of work done. (Staff.)

Dairy 204. Special Problems in Dairying. Credit in accordance with the amount and character of work done. (Cairns and Arbuckle.)

Dairy 208. Research. Credit to be determined by the amount and quality of work done. (Shaw and Arbuckle.)

EDUCATION

Ed. 52. Children's Literature (2). 8:00; T-6.

A study of literary values in prose and verse for children.

Ed. 90. Development and Learning (3). Daily, 9:00; M., W., F., 10:00; T-103. (Pawelek.)

A study of the principles of learning and their application to school situations. Designed to meet the usual teacher-certification requirement for educational psychology.

Ed. 101. History of Education II (2). 8:00; T-218. (Wiggin.) Emphasis is placed on the post-Renaissance periods.

Ed. 122. The Social Studies in the Elementary School (2). 9:00; T-13.

(L. Denecke.)

The emphasis in this course is on pupil growth through social experiences. Consideration is given to the utilization of environmental resources, curriculum, organization and methods of teaching, and evaluation of newer methods and materials in the field.

Ed. 123. The Child and the Curriculum (2). 10:00; T-102.

(M. Denecke.)

This course will emphasize the relation of the elementary school curriculum to child growth and development. Recent trends in curriculum organization; the effect of school environment on learning; readiness to learn; and adaptation of curriculum content and methods to the maturity levels of children will be emphasized.

Ed. 124. Creative Expression in the Elementary School I (2). 11:00; T-13. (L. Denecke.)

This course should prove practical to classroom teachers and supervisors, since it will attempt to consider the so-called special subjects in their relation to children and the course of study. It is based on the point of view that the classroom teacher is the best teacher of his children and as such is responsible for the day by day development of special areas as an integrated part of the total program. Creativity as the natural expression of ideas and as a means of communication will be stressed in both language and manual arts. The relation of creativity to the integration of personality will be emphasized.

Ed. 125. Creative Expression in the Elementary School, II (2). Prerequisite, Ed. 124 or taking concurrently.

Following Ed. 124, this course allows for specialization in selected phases of the creative arts. Separate sections will be scheduled in such fields as art, dramatics, and music.

Section 1-Art, 1:00; H-135.

Section 2—Language Arts, 1:00; T-13.

(L. Denecke.)

(Brvan.)

Ed. 142. High School Course of Study-Literature (2). 9:00; T-6.

(Bryan.)

Literature adapted to the various grade levels of junior and senior high schools is studied.

Ed. 144. Materials and Procedure for the Junior High School Core Curriculum (2). 10:00; T-211. (Bryan.)

This course is designed to bring practical suggestions to teachers who are in charge of core classes in junior high schools. Materials and teaching procedures for specific units of work are stressed.

Ed. 145. Principles of High School Teaching (3). Daily, 12:00; M., W., F., 1:00; T-119. (Brechbill.)

This course is concerned with the principles and methods of teaching but includes no student teaching.

Ed. 147. Audio-Visual Education (2). Fee, \$1.00. (Sheehan.)

Section 1—10:00; T-108.

Section 2-11:00; T-108.

Sensory impressions in their relation to learning; projection apparatus, its cost and operation; slides, film-strips, and films; physical principles underlying projection; auditory aids to instruction; fields trips; pictures, models, and graphic materials; integration of sensory aids with organized instruction.

Ed. 150. Educational Measurement (2). 9:00; T-119. (Brechbill.)

A study of tests and examinations with emphasis upon their construction and use. Types of tests; purposes of testing; elementary statistical concepts, and processes used in summarizing and analyzing test results; school marks.

Ed. 160. Educational Sociology—Introductory (2). 11:00; T-218.

(Stewart.)

This course deals with data of the social sciences which are germane to the work of teachers. Consideration is given to implications of democratic ideology for educational endeavor, educational tasks imposed by changes in population and technological trends, the welfare status of pupils, the socioeconomic attitudes of individuals who control the schools, and other elements of community background which have significance in relation to schools.

Ed. 161. Guidance in Secondary Schools (2). 8:00; T-103.

A general orientation course in the principles of guidance and in the organization and administration of guidance programs. It is also designed to provide a general understanding of guidance procedures in terms of day-by-day demands made upon the classroom teacher in the guidance of youth in his classes and in the extra-curricular activities which he sponsors.

Ed. 162. Mental Hygiene in the Classroom (2). 9:00; T-102.

(M. Denecke.)

The practical application of the principles of mental hygiene to classroom problems.

Ed. 171. Education of Retarded and Slow-Learning Children (2). 8:00; T-102. (M. Denecke.)

A study of retarded and slow-learning children, including discovery, analysis of causes, testing techniques, case studies, and remedial educational measures.

Ed. 195. Teaching Traffic Safety and Automobile Operation (2). Prerequisite, two years' driving experience. Daily, 9:00; M., W., F., 10:00; Ar.-29. Fee, \$3.00. (Heylum.)

Practical and theoretical study of the driver, driver and pedestrian responsibilities, the automobile and its operation, traffic problems and regulations, and the organization and administration of the course in secondary schools. Dual control cars are used.

Ed. 202. The Junior College (2). 9:00; T-211. (Mileham.) The philosophy and development of the junior college in the United States with emphasis on curriculum and administrative controls.

Ed. 205. Seminar in Comparative Education (2). 8:00; T-119.

(Benjamin.)

Ed. 209. Seminar in History of Education (2). 12:00; T-218. (Wiggin.)

Ed. 210. The Organization and Administration of Public Education (2). Two sections. (Newell.)

Section 1—9:00; T-218.

Section 2-10:00; T-218.

This course deals with so-called "external" phases of school administration. It includes study of the present status of public school administration, organization of local, state and federal educational authorities; and the administrative relationships involved therein.

Ed. 211. The Organization, Administration, and Supervision of Secondary Schools (2). 10:00; N-101. (Pyle.)

This course is designed as a continuation of Ed. 210, but may be taken independently. It includes what is called "internal" administration; the organization of units within a school system; the personnel problems involved; and such topics as schedule making, teacher selection, public relations, and school supervision.

Ed. 212. School Finance and Business Administration (2). 11:00; E-214. (Rogers.)

An introduction to the finance phase of public school administration. The course deals with the basic principles of school finance; the implications

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of organization and control; the planning, execution, and appraisal of the activities involved in public school finance such as budgeting, taxing, purchasing, services of supplies, and accounting.

Ed. 215. Public Education in Maryland (2). 8:00; T-8. (Blauch.) A study of the Maryland Public School system with special reference to school law.

Ed. 216. High School Supervision (2). 9:00, N-101. Fee, \$1.00. (Pyle.)

This course deals with recent trends in supervision; the nature and function of supervision; planning supervisory programs; evaluation and rating; participation of teachers and other groups in policy development; school workshops, and other means for the improvement of instruction.

Ed. 217. Administration and Supervision in Elementary Schools (2). 11:00; F-103. (Blacklock.)

A study of the problems connected with organizing and operating elementary schools and directing instruction.

Ed. 225. School Public Relations (2). 8:00; E-214. (Rogers.)

A study of the relationships between the public school as a social institution and the community of which it is a part. This course deals with the agents who participate in the interpretative process, with propaganda and the schools, with parent-teacher associations and other lay advisory groups, and with such means of publicity as the newspaper, radio, and school publications.

Ed. 227. Public School Personnel Administration (2). 10:00; E-214. (Rogers.)

An examination of practices with respect to personnel administration. This course serves to aid in the development of principles applying to personnel administration. Personnel needs, the means for satisfying personnel needs, personnel relationships, tenure, salary schedules, leaves of absence, and retirement plans are reviewed. Local and state aspects of the personnel problem are identified.

Ed. 232. Student Activities in the High School (2). 10:00; T-13.

(Bard and Horvath.)

This course offers a consideration of the problems connected with the so-called "extra-curricular" activities of the present-day high school. Special consideration will be given to (1) philosophical bases, (2) aims, (3) organization, and (4) supervision of student activities such as student council, school publications, musical organizations, dramatics, assemblies, and clubs. Present practices and current trends will be evaluated.

Ed. 236. Curriculum Development in the Secondary School (2). 9:00; T-8. (Hornbake.)

Curriculum planning; philosophical bases, objectives, learning experiences, organization of appropriate content, and means of evaluation.

Ed. 239. Seminar in Secondary Education (2). 8:00; T-211. (Mileham.) Ed. 242. Co-ordination in Work-Experience Programs (2). 8:00; T-202. (Brown.)

This course surveys and evaluates the qualifications and duties of a teacherco-ordinator in a work-experience program. It deals particularly with evolving patterns in city and county schools in Maryland, and is designed to help teacher-co-ordinators, guidance counselors, and others in the supervisory and administrative personnel concerned with functioning relationships of part-time co-operative education in a comprehensive educational program.

Ed. 245. Applications of Theory and Research to High School Teaching (2). 12:00; T-211. (Mileham.)

Implications of experimental practices, the proposals of eminent writers, and the results of research for the improvement of teaching on the sceondary level.

Ed. 247. Seminar in Science Education (2). 12:00; T-13. (Crook.)

This course is designed for elementary school teachers who wish to take graduate work in science education. Special consideration will be given to the development and evaluation of science programs and to identifying newer trends in elementary science. Demonstration materials will be used when necessary and a seminar paper will be required of each student.

Ed. 248. Seminar in Vocational Education (2). 11:00; T-119. (Brown.)

Ed. 250. Analysis of the Individual (2). 9:00; T-5. (Nyweide.)

This course is concerned with the selection and administration of tests and inventories. Interpretation and uses of data are stressed.

Ed. 261. Counseling Techniques (2). 10:00; T-5. (Nyweide.)

This course deals with the various specialized techniques, procedures, and materials utilized by guidance specialists in the schools.

Ed. 262. Occupational Information (2). 11:00; T-5. (Nyweide.)

This course is designed to give counselors, teachers of social studies, school librarians, and other workers in the field of guidance and education, a background of educational and occupational information which is basic for counseling and teaching.

Ed. 279. Seminar in Adult Education (2). 12:00; T-218. (Wiggin.)

Ed. 280. Research Methods and Materials in Education (2). 10:00; T-314. (Mohr.)

A study of research in education, the sources of information and techniques available, and approved form and style in the preparation of research reports and theses.

Ed. 288. Research Problems in Education (1-6). (Staff.)

SUMMER SCHOOL

Master of Education or Doctoral candidates who desire to pursue special research problems under the direction of their advisers may register for one to six hours of credit under this number. A Master of Education candidate may register for two or more hours under this number and write one of his seminar papers.

Ed. 289. Research-Thesis (1-6).

Section 1-Arranged.

Section 2—Arranged.

Students who desire credit for a Master's thesis, a Doctoral dissertation, or a Doctoral project should use this number.

Ed. 292. Advanced Creative Art Expression in Elementary Schools (2). Prerequisite, Ed. 124 and 125. 1:00; H-135. (R. Wiggin.)

Advanced individual exploration and experimentation with art materials and modes of construction. Study of developmental stages of drawing expression in children.

BUSINESS EDUCATION

B. Ed. 103. Basic Business Subjects in the Junior High Schools (2). 10:00; Q-140. (Patrick.)

This course deals with the exploratory aspects of basic business subjects and fundamentals of consumer business education, available instructional materials, and teaching procedures.

B. Ed. 200. Administration and Supervision of Business Education (2). 11:00; Q-140. (Patrick.)

Major emphasis on departmental organization, curriculum, equipment, budget making, guidance, placement and follow-up, visual aids, and the inservice training of teachers. For administrators, supervisors, and teachers of business subjects.

CHILDHOOD EDUCATION

C. Ed. 102. Child Development, III: The Child from Five to Ten Years (2). 11:00; FF-20. (McNaughton.)

Development, characteristics, and interests of the middle-age child; interpersonal relations as affected by home, school, and community; observation and study of one child.

C. Ed. 110. Child Development, IV: The Preschool Years (3). Eight periods a week. Daily, 9:00; T., W., Th., 8:00; FF-20. Laboratory fee, \$1.00. (McNaughton.)

Growth and development of the preschool child as a basis for understanding child behavior and the type of guidance needed; observation in nursery school; study of one child of preschool age.

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(Staff.) (Wiggin.)

(Newell.)

C. Ed. 140. Curriculum, Instruction and Observation—Nursery School (3). Five lectures. Daily, 8:00; FF-19. Three hours a week observation in university nursery school (9-12). (Flannery.)

Setting up of nursery school, selection of equipment, planning of program, methods of working with each age level; parents' conferences.

C. Ed. 149. Teaching Nursery School (3). Daily, 9-12. Conference hours arranged. Advance registration advised for those wishing to do student teaching. (Shulman.)

Nursery School open to children of community and to those of parents attending Summer Session; for age groups 3-5. Enrollment of children limited. Advance registration required by May 15th.

C. Ed. 150. Curriculum, Instruction and Observation—Kindergarten (3). Five lectures. Daily, 8:00; FF-18. Three hours observation in university kindergarten each week (9-12). (Limburg.)

A study of the many activities of the kindergarten program with emphasis on maturity levels and various aspects of child development.

C. Ed. 159. Teaching Kindergarten (3). Daily, 9-12. Conference hours arranged. (Hahn.)

Emphasis will be placed upon creative activities, music, rhythms, art. Class in student teaching limited to twelve. Advance registration for those planning to do student teaching required by May 15th.

HOME ECONOMICS EDUCATION

*H. E. 102. Problems in Teaching Home Economics (3). July 10-August 4, inclusive. Required of seniors in Home Economics Education. Prerequisite, H. E. Ed. 101. Daily, 1:00, 2:00; T-211. (Spencer.)

A study of the managerial aspects of teaching and administering a homemaking program; the physical environment, organization, and sequence of instructional units, resource materials, evaluation, home projects.

*H. E. Ed. 120. Evaluation of Home Economics (2). Prerequisite, H. E. 101. 8:00; T-20. (Spencer.)

The meaning and function of evaluation in education; the development of a plan for evaluating a homemaking program with emphasis upon types of evaluation devices, their construction, and use.

See, "Workshop in Home Management," page 50.

HUMAN DEVELOPMENT EDUCATION

H. D. Ed. 112, 114, 116. Scientific Concepts in Human Development I, II, II (3, 3, 3).

H. D. Ed. 113, 115, 117. Laboratory in Behavior Analysis I, II, III (3, 3, 3).

^{*} Either or both of these two courses may be scheduled without conflict with the Workshop described on page 50.

Summer workshop courses for undergraduates providing credit for as many as three workshops. In any one summer, concept and laboratory courses must be taken concurrently.

H. D. Ed. 204S. Introduction to Human Development and Child Study (3).

This course offers a general overview of the scientific principles which describe human development and behavior and makes use of these principles in the study of individual children. When this course is offered during the academic year, each student will observe and record the behavior of an individual child through the semester and must have one half-day a week free for this purpose. The course is basic to further work in child study and serves as a prerequisite for advanced courses where the student has not had field work or at least six weeks of workshop experience in child study. When this course is offered during the summer it will be H. D. Ed. 204S and intensive laboratory work with case records may be substituted for the study of an individual child.

H. D. Ed. 212, 214, 216. Advanced Scientific Concepts in Human Development, I, II, III (3, 3, 3).

H. D. Ed. 213, 215, 217. Advanced Laboratory in Behavior Analysis I, II, III (3, 3, 3).

Summer workshop courses for graduates providing credit for as many as three workshops. In any one summer, concept and laboratory courses must be taken concurrently.

INDUSTRIAL EDUCATION

A. Professional Courses

The following courses are intended for industrial arts teachers and supervisors, for vocational-industrial teachers and supervisors, and for school administrators and others who desire to acquaint themselves with underlying principles, practices and educational contributions of industrial arts and vocational education.

Ind. Ed. 164. Shop Organization and Management (2). 11:00; E-116.

(Wall.)

This course covers the basic elements of organizing and managing an Industrial Education program including the selection of equipment and the arrangement of the shop.

Ind. Ed. 165. Modern Industry (2). 10:00; T-119. (Hornbake.)

This course provides an overview of factory organization and management. Representative basic industries are studied from the viewpoints of personnel and management organization, industrial relations, production procedures, distribution of products, and the like.

Ind. Ed. 168. Trade or Occupational Analysis (2). 1:00; E-116. (Wall.) Provides a working knowledge of occupational and job analysis which is basic in organizing Industrial Education courses of study. Ind. Ed. 220. Organization, Administration and Supervision of Vocational Education (2). 9:00; T-20. (Brown.)

This course surveys objectively the organization, administration, supervision, curricular spread and viewpoint, and the present status of vocational education.

Ind. Ed. 240. Research in Industrial Arts and Vocational Education (2). Arranged. (Hornbake.)

This is a course offered by arrangement for persons who are conducting research in the areas of Industrial Arts and Vocational Education.

B. Technical Courses

The following courses are offered to persons who are preparing to teach industrial arts at the secondary school level or to teachers already engaged in industrial arts teaching. The courses are comparable in content and presentation to those offered during the regular school term in the industrial arts curriculum. The primary purpose of each course is to have the student develop sufficient skill and technique to instruct secondary school pupils.

Ind. Ed. 1. Mechanical Drawing I (2). 3:00-4:00; Ind. Ed. Bldg. Laboratory fee, \$5.00. (Olewine.)

This course constitutes an introduction to orthographic multi-view and isometric projection. Emphasis is placed upon the visualization of an object when it is represented by a multi-view drawing and upon the making of multi-view drawings.

This course carries through auxiliary views, sectional views, dimensioning, conventional representation and single stroke lettering.

Ind. Ed. 2. Elementary Woodworking (2). 8:00-9:00; Ind. Ed. Bldg. Laboratory fee, \$5.00. (Wall.)

This is a wookworking course which involves the use of hand tools almost exclusively. The course is developed so that the student uses practically every common woodworking hand tool in one or more situations. There is also included elementary wood finishing, the specifying and storing of lumber, and the care and conditioning of tools used.

Ind. Ed. 9. Arts Craft I (With Emphasis on Plastics) (2). Section 1, 8:00-9:00; Section 2, 10:00-11:00; Ind. Ed. Bldg. Laboratory fee, \$5.00.

(Stavaski.)

Emphasis is given to the techniques and procedures used in working with plastics, such as designing, forming, fastening, coloring, and polishing. Various methods of cutting, turning, drilling, filing, and cleaning are used in the production of plastic articles. Related technical information dealing with plastic materials is also included in the course.

Ind. Ed. 21. Mechanical Drawing II (2). 3:00-4:00; Ind. Ed. Bldg. Laboratory fee, \$5.00. Prerequsite, Ind. Ed. 1 or equivalent. (Olwine.) This course deals with working drawings, machine design, pattern layouts, tracing and reproduction. Details and assembly drawings are produced.

Ind. Ed. 23. Arc and Gas Welding (1). 10:00; Ind. Ed. Bldg. Laboratory fee, \$5.00. (Maley.)

A course designed to give the student a functional knowledge of the principles and use of electric and acetylene welding. Practical work is carried on in the construction of various projects using welded joints. Instruction is given in the use and care of equipment, type of welded joints, methods of welding, importance of welding processes in industry, safety considerations, etc.

Ind. Ed. 48. Electricity II (2). 10:00-11:00; Ind. Ed. Bldg. Laboratory (Drazek.)

Principles involved in A-C and D-C electrical equipment, including heating, measurements, motors and control, electro-chemistry, the electric arc, inductance and reactance, condensers, radio, and electronics.

Ind. Ed. 67. Cold Metal (2). 1:00-2:00; Ind. Ed. Bldg. Laboratory fee, \$5.00. (Maley.)

Metal in the form of bars, rods and tubes are shaped to produce "ornamental iron" and bench metal products. The use of the hacksaw, file, drill press, taps and dies, the designing and forming of scrolls and the finishes appropriate for cold metal work are representative of the course content.

Ind. Ed. 69. Machine Shop Practice I (2). 8:00-9:00; Ind. Ed. Bldg. Lamoratory fee, \$5.00. (Maley.)

Bench work, turning, planing, milling, and drilling are the basic processes covered.

Ind. Ed. 89. Machine Shop Practice II (2). 8:00-9:00; Ind. Ed. Bldg. Laboratory fee, \$5.00. (Maley.)

Advanced shop practicum in thread cutting, grinding, boring, reaming, and gear cutting. Work-production methods employed. Related technical information.

Ind. Ed. 110. Foundry (1). 11:00; Ind. Ed. Bldg. Laboratory fee, \$5.00. (Maley.)

Bench and floor molding and elementary core making. Theory and principles covering foundry materials, tools and appliances.

Ind. Ed. 160. Essentials of Design (2). 1:00-2:00; Ind. Ed. Bldg. Laboratroy fee, \$5.00. Prerequisites, Ind. Ed. 1 and basic shop work.

(Olewine.)

A study of the basic principles of design and practice in their application to the construction of shop projects. It treats the art elements of line, mass, color, and design.

SCIENCE EDUCATION

*Sci. Ed. 1. Science for the Primary Grades (2). Laboratory fee, \$1.00. Not offered in 1950.

This course considers the characteristics of elementary school children in grades one through three. Selecting, organizing, and presenting science materials appropriate to this level is done in relation to these charactristics.

*Sci. Ed. 2. Science for the Primary Grades (2). 9:00; F-25. Laboratory fee, \$1.00. (Crook.)

This is a continuation of the previous course, using different subject matter areas to provide a wider range of experiences.

*Sci. Ed. 3. Science for the Upper Elementary Grades (2). Laboratory fee, \$1.00. Not offered in 1950.

This course is designed to meet the needs of teachers of grades four, five, and six by providing background material from selected phases of science which can contribute to these levels. Special attention will be given to materials of the local environment.

*Sci. Ed. 4. Science for the Upper Elementary Grades (2). 10:00; F-25. Laboratory fee, \$1.00. (Crook.)

This is a continuation of the previous course using different subject matter materials to provide a wider background of experiences.

Sci. Ed. 5. Workshop in Science for Elementary School Teachers (2). T., Th., 1:00-3:30; F-25. Laboratory fee, \$2.00. (Desautels.)

A laboratory course planned to provide grade teachers with the opportunity of becoming acquainted with experiments and preparing materials which are of practical value in their science teaching.

ENGLISH

Eng. 1, 2. Composition and American Literature (3, 3). Eight periods a week. (Ball and Staff.)

Eng. 1---

Section 1—Daily, 8:00; M., W., F., 9:00; A-18.

Section 2-Daily, 8:00; M., W., F., 9:00; A-17.

Eng. 2---

Section 1—Daily, 8:00; M., W., F., 9:00; A-203.

Section 2—Daily, 1:00; M., W., F., 2:00; A-203.

Eng. 3, 4. Composition and World Literature (3, 3). Eight periods a week. (Cooley and Staff.)

^{*} Students may receive credit for both Sci. Ed. 1 and Sci. Ed. 2 or Sci. Ed. 3 and Sci. Ed. 4, but no other combination is acceptable.

Eng. 3-

Section 1—Daily, 8:00; M., W., F., 9:00; R-103.
Section 2—Daily, 10:00; M., W., F., 11:00; A-231.
Section 3—Daily, 10:00; M., W., F., 11:00; Q-28A.

Eng. 4-

Section 1-Daily, 8:00; M., W., F., 9:00; N-106.

Section 2-Daily, 10:00; M., W., F., 11:00; A-18.

Section 3-Daily, 10:00; M., W., F., 11:00; A-12.

Section 4-Daily, 1:00; M., W., F., 2:00; A-133.

Eng. 5, 6. Composition and English Literature (3, 3). Eight periods a week. (Zeeveld and Staff.)

Eng. 5---

Section 1-Daily, 10:00; M., W., F., 11:00; A-17.

Eng. 6-

Section 1-Daily, 10:00; M., W., F., 11:00; A-133.

Eng. 8S. College Grammar (2). 8:00; A-207. Prerequisites, Eng. 1, 2. (Harman.)

An analytical study of Modern English grammar, with lectures on the origin and history of inflectional and derivational forms.

Eng. 104S. Chaucer (2). 10:00; A-207. Prerequisites, Eng. 1, 2 and 3, 4 or 5, 6. (Harman.)

A literary and language study of the Canterbury Tales, Troilus and Criseyde, and the principal minor poems.

Eng. 130S. Literature of the Romantic Period (2). 12:00; A-212. Prerequisites, Eng. 1, 2 and 3, 4 or 5, 6. (Cooley.)

The poetry of Byron, Shelley, and Keats.

Eng. 143S. Modern Poetry (2). 9:00; A-106. Prerequisites, Eng. 1, 2 and 3, 4 or 5, 6. (Murphy.)

The chief American poets of the twentieth century.

Eng. 150S. American Literature to 1900 (2). 11:00; A-212. Prerequisites, Eng. 1, 2 and 3, 4 or 5, 6. (Manning.)

This first half of a year course considers representative American poetry and prose to 1850.

Eng. 205S. Seminar in Renaissance Literature (2). 8:00; A-212. Prerequisite, graduate standing. (Zeeveld.)

Eng. 226S. Seminar in American Literature (2). 9:00; A-207. Prerequisite, graduate standing. (Bode.)

The works of Henry David Thoreau, primarily in relation to their intellectual milieu.

ENTOMOLOGY

Ent. 1. Introductory Entomology (3). Lecture daily, 8:00; M-206. Laboratory, M., W., F., 1:00, 2:00; M-206. Fee, \$3.00. (Haviland.)

The position of insects in the animal kingdom, their gross structure, classification into orders and principal families and the general economic status of insects. A collection of common insects is required.

Ent. 11S. Entomology in Nature Study (3). Daily, 10:00; M., W., F., 11:00; M-206. (Haviland.)

This course is designed to help teachers utilize insects in their teaching. The general availability of insects makes them especially desirable for use in nature study courses. Teachers should be acquainted, therefore, with the simplest and easiest ways to collect, rear, preserve, and identify the common insects about which students are constantly asking questions.

Ent. 110, 111. Special Problems (1, 1). Prerequisites to be determined by instructor. Arranged. (Cory.)

An intensive investigation of some entomological problem, preferably of the student's choice. Required of majors in entomology.

Ent. 201. Advanced Entomology. Credit and prerequisites to be determined by the department. To be arranged. (Cory and Staff.)

Studies of minor problems in morphology, taxonomy and applied entomology, with particular reference to the preparation of the students for individual research.

Ent. 202. Research. Credit depends upon the amount of work done. To be arranged. (Cory and Staff.)

Required of graduate students majoring in Entomology. This course involves research on an approved project. A dissertation suitable for publication must be submitted at the conclusion of the studies as a part of the requirements for an advanced degree.

FOREIGN LANGUAGES AND LITERATURE

The first semester of beginning languages will not be offered. Secondyear language (French 4 and 5, German 4 and 5, German 6 and 7, and Spanish 4 and 5) will be offered in a reading course granting credit for either first or second semester, depending on the student's preparation.

FRENCH

Fr. 2. Elementary French (3). Eight periods a week. Daily, 8:00; M., W., F., 11:00; A-106. Second semester of first-year French. (Bays.)

Elements of grammar; pronunciation and conversation; exercises in composition and translation.

Fr. 4 or 5. Intermediate Literary French (3). Eight periods a week. Daily, 9:00; M., W., F., 12:00; A-209. Prerequisite, French 1 and 2, or equivalent. (Bays.) Translation; conversation; exercises in pronunciation. Reading of texts designed to give some knowledge of French life, thought, and culture.

GERMAN

Ger. 2. Elementary German (3). Eight periods a week. Daily, 8:00; M., W., F., 11:00; A-209. Second semester of first-year German. (Cunz.)

Elements of grammar; pronunciation and conversation; exercises in composition and translation.

Ger. 4 or 5. Intermediate Literary German (3). Eight periods a week. Daily, 9:00; M., W., F., 12:00; A-228. Prerequisite, German 1 and 2, or equivalent. (Cunz.)

Reading of narrative prose, grammar review, and oral and written practice.

Ger. 6 or 7. Intermediate Scientific German (3). Eight periods a week. Daily, 9:00; M., W., F., 11:00; R-112. Prerequisite, German 1 and 2, or equivalent. (Kramer.)

SPANISH

Span. 2. Elementary Spanish (3). Eight periods a week. Daily, 8:00; M., W., F., 11:00; A-204. Second semester of first-year Spanish. (Nemes.)

Elements of grammar; pronunciation and conversation; exercises in composition and translation.

Sp. 4 or 5. Intermediate Literary Spanish (3). Eight periods a week. Daily, 9:00; M., W., F., 12:00; A-204. Prerequisite, Spanish 1 and 2, or equivalent. (Nemes.)

Translation, conversation, exercises in pronunciation. Reading of texts designed to give some knowledge of Spanish and Latin-American life, thought, and culture.

GOVERNMENT AND POLITICS

G. & P. 1. American Government (3).

Section 1-Daily, 9:00; T., W., F., 8:00; A-231.

Section 2-Daily, 10:00; M., W., F., 11:00; A-203. (Burdette.)

This course is designed as the basic course in government for the American Civilization program, and it or its equivalent is a prerequisite to all other courses in the Department. It is a comprehensive study of governments in the United States—national, state, and local—and of their adjustment to changing social and economic conditions.

G. & P. 4. State Government and Administration (3). Daily, 9:00; M., W., F., 8:00; A-130. Prerequisite, G. & P. 1. (Dixon.)

A study of the organization and functions of state government in the United States, with special emphasis upon the government of Maryland.

(Plischke.)

G. & P. 10. The Governments of Russia and the Far East (2). 10:00; A-130. Prerequisite, G. & P. 1. (Steinmeyer.)

A study of the governments of Russia, China, and Japan.

G. & P. 101S. International Political Relations (2). 10:00; A-204. Prerequisite, G. & P. 1. (Plischke.)

A study of the major factors underlying international relations, the influence of geography, climate, nationalism, and imperialism, and the development of international organization, with emphasis on the United States.

G. & P. 105. Recent Far Eastern Politics (3). Daily, 8:00; M., W., F., 9:00; A-16. Prerequisite, G. & P. 1. (Steinmeyer.)

The background and interpretation of recent political events in the Far East and their influence on world politics.

G. & P. 142. Recent Political Theory (3). Daily, 11:00; M., T., Th., 12:00; A-110. Prerequisite, G. & P. 1. (Dixon.)

A study of 19th and 20th century political thought, with special emphasis on recent theories of socialism, communism, and fascism.

G. & P. 224. Seminar in Political Parties and Politics (3). To be arranged. (Burdette.)

Reports on topics for individual study and reading in the fields of political organization and action.

HISTORY

H. 5. History of American Civilization (3). Eight periods a week.

Section 1—Daily, 8:00; M., W., F., 9:00; A-110. (Ferguson.)

Section 2—Daily, 9:00; M., W., F., 10:00; A-212. (Posey.)

Section 3-Daily, 10:00; M., W., F., 11:00; A-16. (Wellborn.)

From the colonial period through the American Civil War. Required of all students for graduation.

H. 6. History of American Civilization (3). Eight periods a week.

Section 1—Daily, 10:00; M., W., F., 11:00; A-14. (Stromberg.)

Section 2—Daily, 11:00; M., W., F., 12:00; A-130. (Gordon.)

From the American Civil War to the present. Required of all students for graduation.

H. 51. The Humanities (3). Daily, 9:00; M., W., F., 10:00; O-240.

(Jashemski.)

A survey of the achievements of the various civilizations which have contributed to the common cultural heritage of Western civilization from earliest times through the Middle Ages. The emphasis is upon the achievements in philosophy, religion, literature, arts, science and music, placed within the proper historical prospective.

H. 102S. The American Revolution (2). 11:00; N-101. Prerequisites, H. 5, 6, or the equivalent. (Ferguson.) The background and course of the American Revolution through the critical period of the Confederation.

H. 115S. The Old South (2). 11:00; A-207. Prerequisites, H. 5, 6, or the equivalent. (Posey.)

A study of the institutional and cultural life of the ante-bellum South, with particular reference to the background of the Civil War.

H. 116S. The Civil War (2). 1:00; A-204. Prerequisites, H. 5, 6, or the equivalent. (Merrill.)

Basic causes of the War; military aspects; problems of the Confederacy; political, social and economic effects of the War upon American society.

H. 121S. History of the American Frontier: Trans-Allegheny West (2). 10:00; A-106. Prerequisites, H. 5, 6, or equivalent. (Gewehr.)

The westward movement from the Alleghenies to the Mississippi basin.

H. 129S. The United States in World Affairs (2). 8:00; A-133. Prerequisites, H. 5, 6, or the equivalent. (Wellborn.)

A consideration of the changed position of the United States with reference to the rest of the world since 1917.

H. 151S. History of the Ancient Orient and Greece (2). 11:00; O-240. (Jashemski.)

A survey of ancient cultures with particular emphasis upon Hellenic civilization.

H. 161S. The Renaissance and Reformation (2). 10:00; A-209. Prerequisites, H. 1, H. 50, or equivalent or permission of instructor. (Bauer.)

The culture of the Renaissance, the Protestant revolt and Catholic reaction through the Thirty Years War.

H. 176S. Europe in the World Setting of the Twentieth Century (2). 8:00; A-228. Prerequisites, H. 1, 2, or the equivalent. (Stromberg.)

Recent developments in Europe since the first World War with special reference to their global impacts and significance.

H. 187S. History of Canada (2). 12:00; A-203. Prerequisites, H. 1, 2 or H. 3, 4. (Gordon.)

A history of Canada with special emphasis on the 19th century and upon Canadian relations with Great Britain and the United States.

H. 191S. History of Russia (2). 12:00; A-207. Prerequisites, H. 1, 2, or the equivalent. (Bauer.)

A history of Russia from the earliest times to the present day.

H. 195S. The Far East (2). 1:00; A-130. (Gewehr.)

A survey of institutional, cultural, and political aspects of the history of China and Japan and a consideration of present-day problems of the Pacific area. H. 2018. Seminar in American History (2). To be arranged. (Merrill.)

H. 217S. Reconstruction and Its Aftermath (2). To be arranged. (Merrill.)

A seminar on problems resulting from the Civil War. Political, social and economic reconstruction in North and South.

H. 250S. Seminar in European History (2). Arranged. (Bauer.)

HOME ECONOMICS

 Clo. 121.
 Pattern Design (2).
 10:00, 11:00; H-132.
 Prerequisites, Clo.

 22, Pr. Art 20, or equivalent.
 Laboratory fee, \$3.00.
 (Wilbur.)

Development and use of a basic pattern in dressmaking.

Clo. 122, 125. Tailoring (2). 8:00, 9:00 H-132. Prerequisite, Clo. 22, or equivalent. Laboratory fee, \$3.00. (Wilbur.)

Construction of tailored garments requiring professional skill.

Tex. & Clo. 231. Research (2-6) Time arranged; H-123. Laboratory (Mitchell.)

Home Mgt. 152. Experience in Management of a Home (3). Arranged Laboratory fee, \$7.00. Prerequisite, Home Mgt. 150-151. (Crow.)

Residence for the equivalent of one-third of a semester in the Home Management House. Experience in planning, guiding, directing, coordinating, and participating in the activities of a household composed of a faculty member and a small group of students.

Nut. 10. Elements of Nutrition (3). Daily, 10:00; M., W., F., 11:00. H-222. (Braucher.)

Evaluating nutritional health in school children. Methods of applying the principles of nutrition through health education in the school room and through the school lunch program.

Nut. 211. Problems in Nutrition (3). Laboratory fee, \$7.00. Time arranged; H-222. (Braucher.)

Experience in a phase of nutrition research which is of interest to the student by the use of experimental animals, human studies, or an extensive and critical survey of the literature.

Contact with instructor by preregistration is desirable. This will permit the student to select an adequate problem in her professional field.

Workshop in Home Management. June 26 to July 8, inclusive. (Without credit.) General fee, \$10.00; laboratory fee, \$7.00. Daily, 9:00-12:00, 1:30-3:30. Open to home economic teachers.

(Jane Crow, in charge; Eloise Davison, Consultant.) Principles of management applied to a study of equipment used in the home: for storage, processing and preparation of food for the table; for laundering and for other cleaning processes. There will be lectures and demonstrations in the morning and laboratory periods in the afternoon.

SUMMER SCHOOL

HORTICULTURE

Hort. 122. Special Problems (2, 2). Credit arranged according to work done. For major students in horticulture or botany.

Hort. 208. Advanced Horticultural Research (2-6). Credit granted according to work done.

LIBRARY SCIENCE

L. S. 101. School Library Administration (3). Eight periods a week. Daily, 10:00; M., W., F., 11:00; Library Annex. (Hobson.)

The organization and maintenance of effective library service in the modern school. Planning and equipping library quarters, purpose of the library in the school, standards, instruction in the use of books and libraries, training student assistants, acquisition of materials, repair of books, publicity, exhibits and other practical problems.

L. S. 103. Book Selection for School Libraries (3). Eight periods a week. Daily, 1:00; M., W., F., 2:00; Library Annex. (Hobson.)

Principles of book selection as applied to school libraries. Practice in the effective use of book selection aids and in the preparation of book lists. Evaluation of publishers, editions, translations, format, etc.

MATHEMATICS

Math. 6. Mathematics of Finance (3). Two sections. Eight lectures a week. (Hall, Shepherd.)

Section 1-10:00; M., W., F., 11:00; J-12.

Section 2-10.00; M., W., F., 11:00; J-13.

Prerequisite, Math. 5, or equivalent. Required of students in the College of Business and Public Administration and open to students in the College of Arts and Sciences only for elective credit.

Simple and compound interest, discount, amortization, sinking funds, valuation of bonds, depreciation, annuities.

Math. 10. Algebra (3). Eight lectures a week. Daily, 10:00; M., W., F., 11:00; J-10. (Brigham.)

Open to biological, pre-medical, pre-dental, and general Arts and Sciences students.

Fundamental operations, factoring, fractions, linear equations, exponents and radicals, logarithms, quadratic equations, variation, binominal theorem, theory of equations.

Math. 11. Trigonometry and Analytic Geometry (3).Eight lecturesa week.Daily, 8:00; M., W., F., 9:00; J-10.(Brigham.)

Prerequisite, Math. 10, or equivalent. Open to biological, pre-medical, pre-dental, and general Arts and Science students. This course is not recommended for students planning to enroll in Math. 20.

Trigonometric functions, identities, addition formulas, solution of triangles, coordinates, locus problems, the straight line and circle, conic sections, graphs.

Math. 14. Plane Trigonometry (2). 9:00; J-12. (Shepherd.)

Prerequisite, Math. 15 or concurrent enrollment in Math. 15. Open to students in engineering, education, and the physical sciences.

Trigonometric functions, identities, the radian, graphs, addition formulas, solution of triangles, trigonometric equations.

Math. 15. College Algebra (3). Eight lectures a week. Daily, 10:00; M., W., F., 11:00; J-11. (Good.)

Prerequisite, high school algebra completed. Open to students in engineering, education, and the physical sciences.

Fundamental operations, variations, functions and graphs, quadratic equations, theory of equations, binominal theorem, complex numbers, logarithms, determinants, progressions.

Math. 17. Analytic Geometry (4). Eight lectures, four drill periods a week. M., T., W., Th., F., S., 8:00, 9:00; J-107. (Boyer.)

Prerequisite, Math. 14 and 15, or equivalent. Open to students in engineering, education, and the physical sciences.

Coordinates, locus problems, the straight line and circle, graphs, transformation of coordinates, conic sections, parametric equations, transcendental equations, solid analytic geometry.

Math. 20. Calculus (4). Eight lectures, four drill periods a week. M., T., W., Th., F., S., 8:00, 9:00; J-11. (Leutert.)

Prerequisite, Math. 17, or equivalent. Open to students in engineering and physical sciences.

Limits, derivatives, differentials, maxima and minima, curve sketching, curvature, Kinematics, integration.

Math. 21. Calculus (4). Eight lectures, four drill periods a^{*}week. M., T., W., Th., F., S., 10:00, 11:00; J-107. (Vanderslice.)

Prerequisite, Math. 20, or equivalent. Open to students in engineering, education, and physical sciences.

Integration with geometric and physical applications, partial derivatives, space geometry, multiple integrals, infinite series.

Math. 64. Differential Equations for Engineers (3). Eight lectures a week. Daily, 10:00; M., W., F., 11:00; J-104. (Jackson.)

Prerequisite, Math. 21, or equivalent. Required of students in mechanical and electrical engineering.

Differential equations of the first and second order with emphasis on their engineering applications.

Math. 100S. Higher Algebra (2). 9:00; J-104. Prerequisite, Math. 21 or equivalent. (Good.)

Properties of various systems of numbers and of polynomials.

Math. 129S. Higher Geometry (2). Daily, 8:00; J-104. Prerequisite, Math. 21 or consent of instructor. (Jackson.)

A study of Non-Euclidean geometry emphasizing its historical and axiomatic relationship to Euclidean geometry. Designed particularly for students preparing to teach geometry in high school.

MUSIC

Mus. 1. Music Appreciation (3). Daily, 8:00; M., W., F., 9:00; B-1. (Randall.)

A study of all types of classical music (not including opera) from the time of Haydn, with a view to developing the ability to listen and enjoy.

Mus. S4. Summer School Chorus (1). 12:00; B-1. (Randall.)

Open to all students attending the Summer Session. Work will be directed toward the presentation of a Summer School Concert one evening during the fifth or sixth week of the Summer Session.

Mus. 6. Orchestra (1). 12:00; Ar.-300. (Sykora.)

An opportunity for students attending the Summer Session to enjoy participation in an instrumental ensemble and present a program in connection with the Chorus.

Mus. 7. Fundamentals of Music (2). 10:00; B-1. (Haslup.)

This course is a prerequisite to Harmony and includes a study of major and minor scales, intervals, basic piano technique, sight singing, simple musical form and theory.

Mus. 110. History of American Music (2). 11:00; B-1. (Haslup.)

This course, designed to be an integral part of the American Civilization program, reviews the development of music in the United States from Colonial days to the present time.

Mus. 161. Advanced Orchestral Conducting, Materials and Methods (2). 11:00; Ar-300. Prerequisite, Elementary Conducting. (Sykora.)

Conducting and arranging for the orchestra, band, and instrumental ensembles are developed through practical experience. Methods of instruction and a survey of instrumental literature are made.

Mus. Ed. 125. Creative Activities in the Elementary School Which Contribute to Musical Development (2). 9:00; B-4. Prerequisite, consent of instructor. (French.)

This course deals with musical experiences in creative listening and creative response to rhythm and mood, creative use of percussion and simple melody instruments, creative melody writing, creative interpretation of music performed. Creative interpretation and creative writing will also be studied in connection with its development through correlaton with other areas and creative programs.

Mus. Ed. 128.Workshop in Music for Elementary Schools (2). 11:00;B-4.Prerequisite, consent of instructor.(French.)

A workshop designed to make a study of the vocal and instrumental program in the Junior High School Curriculum. Special study will be made of a more flexible program that will offer many opportunities for active participation in experiencing music to the adolescent with or without special music aptitude. The part that Music can play in the integrated program will also be studied.

Mus. Ed. 132. Workshop in Music for the Junior High School (2). 1:00; B-4. Prerequisite, consent of instructor. (French.)

A workshop designed to make a study of the vocal and instrumental program in the Junior High School Curriculum. Special study will be made of a more flexible program that will offer many opportunities for active participation in experiencing music to the adolescent with or without special music aptitude. The part that Music can play in the integrated program will also be studied.

Mus. Ed: 155. Organization and Technique of Instrumental Class Instruction (2). 9:00; Ar.-300. Prerequisite, consent of instructor.

(Sykora.)

This course deals with practical instruction in methods of tone production, tuning, fingering, and care of the instruments in the hands of the students. A survey will be made of the latest methods and materials for class instruction.

Mus. Ed. 170. Methods and Materials for Class Piano Instruction (2). 9:00; B-2. Prerequisite, consent of instructor. (Haslup.)

This course deals with the fundamental principles of teaching piano in a group of students of various grade levels. It includes the techniques and procedures involved in teaching class piano and a survey of materials for piano class instruction and recommendation for their use.

Mus. Ed. 175. Methods and Materials in Vocal Music for the High School (2). 11:00; B-2. Prerequisite, consent of instructor. (Randall.)

This course is designed primarily for high school choral directors and teachers of voice training classes. Special attention will be given to song repertoire, interpretation, diction, tone production, and breath activity.

Mus. Ed. 127. Methods and Materials for Program Productions in the Secondary School (2). 10:00; B-4. Prerequisite, consent of instructor.

(French.)

Designed especially for those interested in presenting musical assemblies, concerts and programs for all types. Methods of presentation and materials suitable for various occasions will be discussed.

Mus. Ed. 180. Instrumental Seminar (2). 10:00; Ar.-300. Prerequisite, consent of instructor. (Sykora.)

A review of beginning methods and materials for wind and percussion instruments; materials for bands for all grades; problems of intonation, tone quality and interpretation; the percussion section; organization and adjudication of contests and festivals; special maneuvers of the marching band; library organization; planning and conducting a concert; organization within the band and the orchestra; point systems, and other related topics.

PHILOSOPHY

Phil. 102. Modern Philosophy (3). Daily, 9:00; M., W., F., 10:00; T-202. (Robinson.)

A history of philosophical thought in the West during the 16th, 17th, and 18th centuries. Based upon readings in Bacon, Descartes, Leibniz, Locke, Berkeley, Hume, and Kant.

Phil. 154. Political and Social Philosophy (3). Daily, 11:00; M., W., F., 12:00: T-202. (Dewey.)

Classical and contemporary theories of the nature and function of the state. The bearing of ethical principles on problems of government, international relations, economics, the family, and other social institutions Human rights, social control and individual freedom.

PHYSICAL EDUCATION, RECREATION, AND HEALTH

P. E. S10. Tennis (1). Daily, 2:00; Ar.-122. (Kehoe.) Instruction and practice in basic strokes, rules of the game; care and selection of equipment.

P. E. S20. Badminton (1). Daily, 3:00; Ar.-122. (Woods.)

Instruction and practice in basic strokes, rules of the game; care and selection of equipment.

P. E. S30. Archery (1). Daily, 4:00; W-1. (Staff.)

Instruction and practice; scoring; competition in various types of shooting.

P. E. S40. Golf (1). Wed., 1-5; Ar. (Cronin.)

Selection of equipment; rules of golf. Techniques of drive, approach, and putt. Instruction in golf as a competitive game; intramural and interscholastic.

P. E. S50. Square Dance (1). Daily, 10:00; G-100. (Wisher, Giese.) Study of American square and round dances for use in schools and recreational groups.

P. E. 65. Intermediate Techniques of Sports and Gymnastics (2). (Men) Daily, 8:00, 9:00; G-100. (Field, Cronin, Krouse.)

Techniques and practice of sports and gymnastics.

UNIVERSITY OF MARYLAND

P. E. 100. Kinesiology (3). M., T., W., Th., 3:00, 4:00; W-1. (Mitchell.) A study of analysis of human motion conforming to the laws of mechanics and principles of physiology and anatomy.

P. E. 114. Methods and Materials for Secondary Schools II (3). (Women) M., T., W., Th., 10:00, 11:00; W-1. (Mitchell.)

Theory and practice. Class organization, analysis, and teaching techniques of sports, gymnastics, self-testing activities, and rhythms for junior and senior high school programs.

P. E. S120. Physical Education for the Elementary School (2). Daily, 2:00; G-202. (Hutto.)

Designed to aid educators in the development of elementary school children through the use of selected rhythmic activities and games. Some demonstration and practice with children will be included.

P. E. S131. Coaching Basketball (2). Daily, 11:00; Col. (Men).

(Wisher.)

Methods of coaching basketball in high school and college.

P. E. S133. Coaching Football (2). Daily, 10:00; Col. (Men). (Staff.) Methods of coaching football in high school and college.

P. E. 140. Therapeutics (3). M., T., W., Th., 8:00, 9:00; G-202.

(Cudmore.)

A study of common structural abnormalities, corrective (adaptive) exercises, and massage. Causes, prevention and correction of postural defects. Testing methods. Theory and practice.

P. E. 180. Measurement in Physical Education and Health (3). M., T., W., Th., 1:00, 2:00; W-1. (Mohr.)

The theory and use of achievement standards and tests of physical fitness, motor ability, sports skill, etc., with emphasis on the analysis and interpretation of results and their application to school programs of physical education and health.

P. E. 200. Seminar in Physical Education, Recreation and Health (1-2). Daily, 12:00; G-203. (Deach and Staff.)

P. E. 201. Foundations in Physical Education, Recreation and Health (3). Daily, 1:00, 3 hrs. arr.; G-203. (Deach and Staff.)

An overall view of the total fields with their inter-relations and place in education.

P. E. 203. Supervisory Techniques in Physical Education, Recreation and Health (3). M., T., W., Th., 8:00, 9:00; G-203. (Hutto.)

Principles and practices of supervision applied to the special fields indicated. Includes evaluation of facilities, program, personnel, and processes, using either survey or guidance techniques, P. E. 210. Comparative Problems in Physical Education (2). Daily, 11:00; G-203. (Fraley.)

A comparative international survey of the present-day and possible future programs of physical education, recreation and health.

P. E. 260. Research (1-6). Arr.

For advanced students capable of doing individual research on some topic other than the Thesis (Ed. 289) or the digest chosen in P. E. 250. Approval of the instructor is required.

Hea. 160. Problems in School Health Education (4-6). Daily, 9:00 to 3:00; W. (Deach and Staff.)

A workshop type course for experienced teachers, administrators, nurses and other active health personnel dealing with the practical problem of educating children in healthful living.

Rec. 100. Co-recreational Games and Programs (2). M., T., W., Th., 3:00, 4:00; G-100. (Husman.)

Activities for social recreation in playgrounds, industries, camps, churches, and gymnasiums.

Rec. S184. Outdoor Education (6). Daily, 8:00 to 2:00; W. (Staff.)

A full-time program for teachers, administrators, recreation leaders, and social workers in functionalized child development through utilization of the surrounding natural environment and resources. Guided group work implements the acquired techniques for use with children in developing education in democratic living, worthy use of leisure, certain character traits and alsc for vitalizing such subject matter areas as mathematics, language arts, social and natural sciences, music, health and physical education, graphic and plastic arts.

PHYSICS

Physics 1. Elements of Physics: Mechanics, Heat, and Sound (3). Eight periods a week. Daily, 8:00; M., W., F., 10:00; GG-6. Lecture demonstration fee, \$3.00. (Cooper.)

This course is for the general student and does not satisfy the requirements of the professional schools.

PSYCHOLOGY

Psych. 1. Introduction to Psychology (3). Daily, 8:00; M., W., F., 9:00; DD-10. (Schaefer.)

A basic introductory course, intended to bring the student into contact with the major problems confronting psychology and the more important attempts at their solution.

Psych. 2S. Applied Psychology (2). 9:00; DD-9. (Hackman.)

Application of research methods to basic human problems in business and industry, in the professions, and in other practical problems of everyday life.

(Staff.)

Psych. 106. Statistical Methods in Psychology (3). Daily, 10:00; M., W., F., 11:00; DD-9. Prerequisite, Psych. 1. (Hackman.)

A basic introduction to quantitative methods used in psychological research; measures of central tendency, of spread, and of correlation. Majors in Psychology must take this course in the junior year.

Psych. 121. Social Psychology (3). Daily, 8:00; M., W., F., 9:00; DD-11. Prerequisite, Psych. 1. (Grzeda.)

Psychological study of human behavior in social situations; influence of others on individual behavior; social conflict and social adjustment, communication and its influence on normal social activity.

Psych. 125S. Child Psychology (2). 10:00; DD-11. Prerequisite, Psych. 1. (Grzeda.)

Behavior analysis of normal development and normal socialization of the growing child.

Psych. 128. Human Motivation (3). Daily, 9:00; M., W., F., 8:00; DD-12. Prerequisite, Psych. 1. (Cofer.)

Review of research literature dealing with determinants of human performance, together with consideration of the major theoretical contributions in this area.

Psych. 129S. Psychological Aspects of Literature (2). 10:00; DD-10. Prerequisite, Psych. 1 or 3, or permission of the instructor. (Sprowls.)

The familiar rubrics of dynamic psychology are studied in the light of literary periods. Emphasizes the significance of psycho-social forces as functional determinants of well-known literary personalities.

Psych. 131. Abnormal Psychology (3). Daily, 11:00; W., 1:00-4:00; DD-10. Prerequisite, 9 hours in Psychology. Four lectures, one clinic at St. Elizabeth's Hospital. (Sprowls.)

The nature, occurrence, and causes of marked psychological abnormalities, with emphasis on clinical rather than theoretical aspects.

Psych. 136. Applied Experimental Psychology (3). 10:00; other hours arranged; DD-12. Prerequisite, Psych. 1 or 3, or consent of instructor.

(Walker.)

A study of basic human factors involved in the design and operation of machinery and equipment.

Psych. 161S. Psychological Techniques in Personnel Administration (2). 11:00; DD-11. Prerequisite, Psych. 1 or 3, or consent of instructor.

(Schaefer.)

A survey course, intended for those who plan to enter some phase of personnel work.

Psych. 194. Independent Study in Psychology (1-3). To be arranged. Prerequisite, senior standing and consent of instructor. (Staff.)

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Integrated reading under direction, leading to the preparation of an adequately documented report on a special topic.

Psych. 225. Participation in Counseling Clinic (1-3). Prerequisite, consent of instructor. (Smith.)

Participation under direct supervision in the counseling of current cases in the University's Student Clinic. Cases will be followed through the interview, testing, counseling, recommendations and follow-up.

Psych. 290. Graduate Research in Psychotechnology. (Credit arranged.) Prerequisite, consent of instructor. Credit will be according to work accomplished. (Staff.)

POULTRY

P. H. 111. Poultry Breeding and Feeding (1). First three weeks. 9:00; P-101. (Jull and Combs.)

This course is designed primarily for teachers of vocational agriculture and extension service workers. The first half will be devoted to problems concerning breeding and the development of breeding stock. The second half will be devoted to nutrition problems.

P. H. 205. Poultry Literature (1-4).

Readings on individual topics are assigned. Written reports required. Methods of analysis and presentation of scientific material are discussed.

P. H. 206. Poultry Research. Credit in accordance with work done. (Staff.)

Practical and fundamental research with poultry may be conducted under the supervision of staff members toward the requirements for the degrees of M.S. and Ph.D.

SOCIOLOGY

Soc. 1. Sociology of American Life (3). Eight periods a week. Daily, 10:00; M., W., F., 11:00; R-1. (Ebersole.)

Sociological analysis of the American social structure; metropolitan, small town, and rural communities; population distribution, composition and change; social organization.

Soc. 2. Principles of Sociology (3). Eight periods a week. Daily, 10:00; M., W., F., 11:00; R-113. (Hutchinson.)

The basic forms of human association and interaction; social processes; institutions; culture, human nature and personality.

Soc. 51S. Social Pathology (2). 8:00; R-205. (Hutchinson.)

Personal-social disorganization and maladjustment; physical and mental handicaps; economic inadequacies; programs of treatment and control.

Soc. 64. Marriage and the Family (3). Eight periods a week. Daily, 11:00; M., W., F., 12:00; F-104. (Shankweiler.)

(Staff.)

Functions of the family; marriage and family adjustments; factors affecting mate selection, marital relations, and family stability in contemporary social life.

Soc. 118S. Community Organization (2). 8:00; R-1. (Bailey.)

Community organization and its relation to social welfare; analysis of community needs and resources; health, housing, recreation; community centers; neighborhood projects.

Soc. 123S. Ethnic Minorities (2). 9:00; R-205. (Lejins.)

Basic social processes in the relations of ethnic groups within the state; immigration groups and the Negro in the United States; ethnic minorities in Europe.

Soc. 141S. Sociology of Personality (2). 1:00; R-1. (Ebersole.)

Development of human nature and personality in contemporary social life; processes of socialization; attitudes, individual differences, and social behavior.

Soc. 161S. The Sociology of War (2). 10:00; F-104. (Bailey.)

The origin and development of armed forces as institutions; the social causes, operations and results of war as social conflict; the relations of peace and war and revolution in contemporary civilization.

Soc. 171S. Family and Child Welfare (2). 9:00; R-1. (Shankweiler.) Programs of family and child welfare agencies; social services to families and children; child placement; foster families.

Soc. 256. Crime and Delinquency as a Community Problem (3). Seminar. To be arranged. (Lejins.)

An intensive study of selected problems in adult crime and juvenile delinquency in Maryland.

SPEECH

Speech 1. Public Speaking (2). 8:00; R-102. Fee \$1.00. (Strausbaugh.)

The preparation and delivery of short original speeches. Outside readings; reports, etc.

Speech 2. Public Speaking (2). 9:00; R-102. Fee, \$1.00. Prerequisite, Speech 1. (Strausbaugh.)

Speech 10. Group Discussion (2). 11:00; R-102. (Strausbaugh.)

A study of the principles, methods, and types of discussion, and their application in the discussion of contemporary problems.

ZOOLOGY

Zool. 1. General Zoology (4). Five lectures and five two-hour laboratory periods a week. Lecture, daily, 8:00; EE-15; laboratory, 9:00, 10:00; EE-16. Laboratory fee, \$8.00. (Littleford.) This course, which is cultural and practical in its aim, deals with the basic principles of animal life. Typical invertebrates and a mammalian form are studied.

Zool. 104. Genetics (3). Eight lecture periods a week. Prerequisite, one course in zoology or botany. Recommended for pre-medical students. Lecture, daily, 9:00; M., W., F., 10:00; EE-15. (Burhoe.)

A consideration of the basic principles of heredity.

Zool. 206. Research. Credit to be arranged. Laboratory fee, \$8.00.

(Staff.)

Zool. 208. Special Problems in General Physiology. Credits and hours arranged. Laboratory fee, \$8.00. (Phillips.)

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