



Undergraduate  
*Summer Sessions Bulletin*

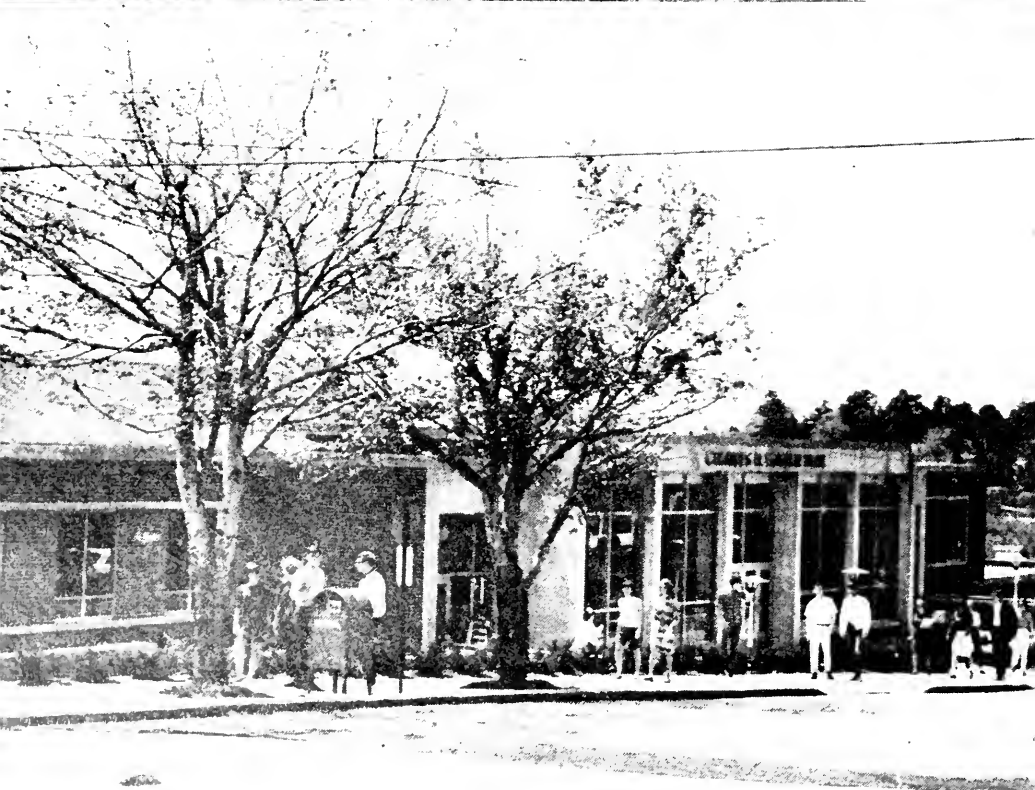
INDIANA  
UNIVERSITY OF PENNSYLVANIA

INDIANA, PENNSYLVANIA

1965

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# Indiana University Bulletin

Volume 74

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Number 3

INDIANA UNIVERSITY OF PENNSYLVANIA  
INDIANA, PENNSYLVANIA

## SUMMER SESSIONS

(UNDERGRADUATE)

Pre-Session June 10 to June 28

Main Session July 1 to August 9

Post-Session August 12 to August 30

# 1968



This University is Accredited by the  
Middle States Association of Colleges  
and Secondary Schools  
and

The National Council for Accreditation of  
Teacher Education

**COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF PUBLIC INSTRUCTION**

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UNIVERSITY CALENDAR

1968

Pre-Session

Classes Begin .....Monday, June 10
Session Ends .....Friday, June 28

Main Session

Classes Begin .....Monday, July 1
Session Ends .....Friday, August 9

Post-Session

Classes Begin .....Monday, August 12
Session Ends .....Friday, August 30

First Semester 1968 - 1969

Registration .....September 10
Classes Begin .....September 11

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## SUMMER SESSIONS 1968

There will be three sessions in the summer of 1968, two of three weeks each and one of six weeks. The pre-session will begin on Monday, June 10, and extend through Friday, June 28. The main summer session starts July 1 and extends through August 9. The post-session of three weeks begins August 12 and continues through August 30.

Students may earn three credits in the pre- and post- sessions and six in the main session. Any one or all three sessions may be attended making it possible to earn from three to twelve credits.

Exceptions to the foregoing schedule should be noted in reference to the four credit courses in science.

## ADVANCED COURSE RESERVATION

Reservation cards have been inserted in this catalog on which you may indicate your course interests and needs. All courses listed in this catalog will be offered if there are 15 or more students enrolled in each course. Additional sections of a course will be opened if the need justifies doing so.

Receipt of the reservation cards will serve to assure you a place in the Summer School. Whether you can get the specific courses you desire will depend upon the conditions indicated in the foregoing paragraph.

Please return the reservations card to Dr. R. W. Cordier, Director of the Summer School, by **May 10, 1968**.

Students who have been dismissed for Academic reasons and are listed on the NPR (Not Permitted to Register) list must be approved for readmission through proper channels before making application to attend any summer school session.

Regular students who were not in school this past semester are reminded that this application for summer school is not an official readmission approval for the fall semester and does not automatically readmit them at that time. They should check regulations for readmission in the regular catalog.

## OBJECTIVES OF THE SUMMER SCHOOL

The summer school program at Indiana University of Pennsylvania is designed to meet the needs of many students. Courses, workshops and seminars will be offered in the Liberal Arts, in Teacher Education, and in other fields of study.



Regular college students, including entering freshmen, who wish to accelerate their program of studies will find both general education and special courses in all fields of study.

Students who are deficient in quality points for an overall C average on university work completed are encouraged and urged to repeat courses in which they have received a grade of D or F. Maintaining a C average or better is necessary for satisfactory continuance in school.

Students who were not enrolled for second semester (1967-1968) and who desire to be considered for full-time enrollment in the first semester (1968-1969) must fill out a readmission form requesting acceptance by the deadline date April 1, 1968.

Students from other colleges and universities may take courses in our summer school. Indiana University of Pennsylvania is accredited by the Middle States Association of Colleges and Secondary Schools and by the National Council for Accreditation of Teacher Education. Its credits are recognized by other accredited colleges and universities. Students from other colleges who attend Indiana University of Pennsylvania in the summer should request our Registrar to send a transcript of the credits they earn to their respective institutions.

Teachers-in-service will find courses in our summer program to serve their varied needs. They may take work to qualify for permanent certification. They may take refresher courses in their field of specialization, or they may take courses for the purpose of extending their certification to a new field.

Other individuals than the foregoing will be admitted to our summer school. They may take any of the courses offered and participate in the workshops and seminars which they may find useful or interesting to them.

## PLACEMENT SERVICE

E. Samuel Hoenstine, Director

The services of the Placement Office are available to students who are graduating, students who are attending for certification, students who have been admitted to the graduate school, and alumni. The directors of the various departments take an active interest in the placement of their graduates. The Office supplies credentials to employers who are seeking applicants for positions, arranges for interviews, and serves as a center where graduates may keep their records up-to-date. A computerized information retrieval system is available which permits experienced college graduates to make their qualifications known to employers seeking to

fill their company's open positions. Positions are not guaranteed by the university, but Indiana's record of placement is one of the very best in Pennsylvania. The Placement Office also receives and makes available to graduates and undergraduates lists of vacancies in summer camp counseling.

### SUMMER GRADUATION

Students who plan to graduate in the summer must have completed all requirements for graduation by the end of the Main Summer Session.

The summer commencement for 1968 will be held on Sunday afternoon, August 25. The responsibility for graduation rests upon students. All students who plan to graduate in the summer of 1968 should write or call at the office of the Dean of their respective schools to secure application forms for graduation. These forms properly filled in must be returned to the office of the Deans of these schools not later than May 31, 1968.

### EXPENSES AND FEES

(Subject to Change)

#### CONTINGENT FEE

**All Schools**—\$14.00 per semester hour (Minimum Contingent Fee for each session \$42.00.)

Out-of-state students, \$20.00 per semester hour of credit. (Minimum contingent fee for each session \$60.00.)

#### OTHER FEES

	Pre-session	Main Session	Post-session
Room and Meals .....	\$51.00	\$102.00	\$51.00

Degree Fee, to be paid only by those who graduate at the end of the summer session, \$5.00.

Approximate expenses for books, \$10.00 to \$20.00.

**Late Registration Fee.** A student who registers after the date officially set for registration June 10 for the pre-session, July 1 for the regular session, and August 12 for the post-session, will pay an additional fee of \$1.00 per day until the student is in regular attendance, provided that the total amount of the Late Registration Fee shall not exceed \$5.00. Every late registrant must pay his fee unless excused in advance by the Dean of Academic Affairs because of illness or other unavoidable cause.

**Activity Fee.** The activity fee for the regular summer session is \$7.00 and \$3.50 each for the pre- and the post-session.

**How to Pay Fees.** All fees except the degree fee are to be paid on the day of registration for each session: pre-session Monday, June 10, regular session, Monday, July 1, and post-session, Monday, August 12, 1968.

**Change in Fees.** The foregoing fees are subject to change without notice.

Checks for fees except activity fee should be made payable to the Commonwealth of Pennsylvania; postal money orders should also be made payable at the Harrisburg Post Office. Checks for the activity fee should be made payable to Student Cooperative Association; money orders for this fee should be made payable at the Post Office at Indiana, Pennsylvania.

**Room Reservation.** Room reservations can be made by writing to the Dean of Women or Dean of Men. An advance registration deposit will not be required to reserve a room for summer sessions.

Students are not expected to room alone. Therefore, prospective students are urged to apply in pairs. In this way each student is assured a congenial roommate. Single applications are handled to the best possible advantage, but the college prefers that students make their own choices whenever possible. Applications for rooms are filled in the order in which they are received.

**Financial Aid.** A limited amount of financial aid may be available to full-time summer session students. Any student interested in this possibility should contact the Director of Financial Aid, Room 318, Clark Hall, for further information. Deadline for filling applications, June 1, 1968.

## GENERAL INFORMATION

**Admissions Policies.** Admission to the Summer School program in no way implies assured admission toward a degree at Indiana University of Pennsylvania. Credits taken in the summer months, however, are applicable toward degree programs and are transferable to other institutions. Acceptance of summer credits at other institutions, of course, will depend upon the consent of these institutions. High school graduates not officially admitted to Indiana University of Pennsylvania may take summer work as a special student with the understanding that it would constitute college credit but not acceptance as a degree candidate. Students attending summer sessions must have earned a high school diploma and, if a degree candidate at another institution, be in good standing both academically and socially at that institution. Students not meeting these requirements may be asked to withdraw from the University.

**University Regulations.** Students attending the Indiana University summer sessions are expected to maintain acceptable standards of social behavior suitable to a college community. The University reserves the right at all times to ask students to withdraw from the summer sessions if such standards are not maintained.

**Registration.** Students are expected to register on the first day of each session. All questions pertaining to fees, programs of classes, and room assignments should be settled so that classes may run on full-time the day following registration. In the Pre-session and Post-session classes will meet at 1:00 and 2:00 p.m., for one hour the first day. Those wishing credits evaluated should see the Deans' of the school in which they are enrolled.

Registration for Pre-session — 8:30 a.m. - 3:30 p.m., Monday, June 10.

Registration for Main Session—8:30 a.m. - 3:30 p.m., Monday, July 1.

Registration for Post-session — 8:30 a.m. - 3:30 p.m., Monday, August 12.

The dormitories will be open for students Sunday, June 9, 30, August 11 at 3:00 p.m.

Registration will be held in Waller Gymnasium. At this time students will:

1. Make out their programs.
2. Arrange for meals and housing.
3. Pay their tuition and activity fees.

Books may be secured at the Book Store as soon as texts are specifically designated for courses taken.

### Schools and Major Departments

**Arts and Sciences**—English, Philosophy, History, Political Science, Economics, Anthropology and Sociology, Geography, Psychology, Law Enforcement, Mathematics, Biology, Chemistry, Physics, Speech and Theatre, Foreign Language.

**Business**—Business Management, Business Education.

**Education**—Dental Hygiene, Public School Nurse, Counseling and Guidance, Educational Psychology, Elementary Education, Foundations of Education, Secondary Education, Special Education, Speech and Hearing, Mentally Retarded.

**Fine Arts**—Art, Art Education, Music, Music Education.

**Health Services**—Health and Physical Education, Nursing, Safety Education.

**Home Economics**—Home Economics Education, School Food Services.

**Class Hours.** During the pre- and post-sessions some classes will begin at 8:00 a.m., run to 9:30 and then resume at 11:00 and run to 12:30 o'clock. Others will begin at 9:30 a.m., run to 11:00 and then resume at 12:30 and run to 2:00 o'clock. In the main session classes begin at 8:15 a.m. and close at 2:25 p.m., each period being 75 minutes. Some laboratory periods, field trips, practice periods for musical organizations, and similar activities are conducted in the afternoon. Each student should make certain that he can adjust his time to these periods as arranged before making his program. The time followed will be that of the Indiana Community.

**The Rhodes R. Stabley Library** named for the late Dr. Rhodes R. Stabley, chairman of the English-Speech Department from 1941 to 1958, was completed in the spring of 1961. The three story building will eventually house 300,000 books and provide study room for about 550 students.

An instructional program in the use of library tools and reference books is carried on by the staff to develop needed skills in the library use. The well-organized general holdings of 220,000 volumes are enhanced by the reference collection, 2,000 current magazines, extensive files of bound and microfilmed magazines and newspapers, state and federal documents, pamphlets, and curriculum materials.

Library hours are posted at Stabley Library for Summer Sessions and during vacation periods.

**Student Living Conditions.** Women who will not commute from home daily and who plan to enroll in any of the summer sessions should write to the Dean of Women at least ten days in advance of the session they plan to attend so that arrangements for rooming on the campus can be made.

The men's dormitory will be open during the summer. It is important for men who wish to room at the college during any of the summer sessions to write to the Dean of Men at least ten days in advance of the session they plan to attend so that plans can be made to prepare sufficient rooming accommodations. Men who do not wish to room in a dormitory should contact the Secre-

tary in Gordon Hall regarding approved rooms in town which are available for rent.

The main university dining hall is open throughout all the summer sessions. The appropriate Dean should be informed concerning an individual's desire to have meals at the university.

Slight illnesses are cared for in the university infirmary without charge for a period of three days. After three days, a charge includes the regular nurse and medical services, but does not include special nurse or special medical service.

All students who live in the university must provide themselves with blankets, as the university furnishes only the linen and spreads. Each student must also provide soap, towels and needful toilet articles.

**Clothing.** To enjoy sports activities such as hiking, swimming and tennis, women students will find slacks, comfortable shoes, swim suits, and shorts very useful.

Summer activities usually include a party for which a summer evening dress is suitable. For all other occasions, cool, comfortable dresses and spectator sports clothes will meet all needs.

### RELAXATION AND RECREATION AT INDIANA

Accent on the finest in recreational activities combined with a pleasant environment and favorable climatic factors make the university at Indiana an ideal spot for summer study and relaxation.

The university campus itself provides many sources of entertainment. A notable example of this is the Summer Theater Guild in which students participating in the regular summer drama workshop, together with people from the community and imported actors and directors, will present at least six full length plays during the main session. In the past these productions have been acclaimed equal to or surpassing professional and summer stock performances.

Present plans for the summer of 1968 call for the continuation of the summer Theater Guild program in Fisher Auditorium under the direction of Mr. Robert Ensley. This university-community summer theater will present at least six full length plays each for four nights a week. Students of the Main Session will receive tickets for admission to all six of these plays on their activity cards. Last summer students thoroughly enjoyed the presentations of "The Miracle Worker," "The Subject Was Roses," "Three Men on a Horse," "Two for the Seesaw," "Hobson's Choice," and "Absence of A Cello."

An exceptional summer lecture series has been developed as a feature of the Indiana University summer sessions. Attendance is voluntary, but these events have proved to be one of the highlights of the summer program. Last summer's series included:

- Stanley Kauffmann—Looking at Films
- Max Gordon—Behind the Scenes in the American Theater
- Archduke Trio
- Robert Price—The Coming Political Struggle, 1968
- Ron Satok—Artist As Interpreter
- Donald Hall—The Poet's Voice
- Peter Lisagor—The Strange and Wondrous Techniques of Leadership Under LBJ
- Philip Burton—Comedy Through the Ages
- Douglas Edwards—The World Today

No attempt is made to have all summer session students participate in all activities, but the recreation program is ample and varied enough so that each individual may find an interesting outlet for his particular tastes and desires. The recreation program has been developed by a student-faculty committee. Tentative plans for the 1968 session include many of the old favorite activities of previous summer sessions and some new ones suggested by former students.

The entire Indiana area has many places that are of great natural or historic interest. Busses will be chartered for visits and field trips to many of these places. During the summer of 1967, tour groups chartered busses to attend the Civic Light Opera in Pittsburgh, professional baseball games at Forbes Field, a visit to Frank Lloyd Wright's famous house, "Fallingwater" and others.

Several trips will attempt to take advantage of Western Pennsylvania's rich industrial enterprises. Field trips to steel mills, research laboratories, and atomic energy installations were all part of last summer's activity program. In addition departmental seminars will be scheduled with invited discussion leaders.

Morning pickups in Foster Hall where students meet for a snack and conversation several times each week have been so popular during the last few summers that they will be continued and improved. Informal student activities including speakers on popular topics will be held in the new Student Union Building. One of the most popular features of the summer sessions has been the regular Monday night presentations of full length feature movies and hi-fi concerts of good music at the Flagstone Theater.

Much of the summer recreation program centers at the College Lodge near Indiana where many picnics, outings, steak fries, informal parties and hikes are held in a woodland environment. On

the campus proper there are many facilities for swimming and games such as bowling on the green, archery, croquet, badminton, and softball, while indoors the Student Union provides an attractive setting for formal and informal dances and the reception lounge in John Sutton Hall provides a comfortable area for cards, singing, or visiting. Several television sets provided by the Alumni Association are available for student use in well located places.

### PROGRAM OF STUDIES

The summer school program of studies consists primarily of a liberal offering of basic and advanced courses. The program includes courses in general education, advanced courses in various fields of academic interest, as well as courses in the field of professional education. The program also features a number of institutes, workshops, seminars and clinics. These are provided to meet the special needs and interests of students who may take them on a credit or non-credit basis. Most of them will be directed by or will feature recognized resource people who will be brought to the campus for our summer program.

### GENERAL EDUCATION PROGRAM

The following program in general education is required of all undergraduate students.

<b>I. Humanities</b>	<b>19-22 cr.</b>
English I and II .....	8
Literature I (Tragic Themes in Literature) or Literature II (Literature of Social Criticism) ....	2
Introduction to Art or Introduction to Music or Introduction to Theatre .....	3
*Foreign Language (Completion of intermediate sequence) .....	6
General Electives—Students who do not take Foreign Language may elect 3 courses from the following list or 2 from this group and 1 from the General Electives in Natural Science. Students who take Foreign Language may elect 1 from the General Electives list for either Humanities or Natural Science.	3- 9
Aesthetics	History of Civ. I
Art History I or II	Logic
Ethics	

\*Required of all Liberal Arts Students. Optional for other students.



Modern American Fiction	The English Bible as	
Music History I	Literature	
Philosophy	Basics of Religions	
	Thoughts and Practices	
<b>II. Natural Science</b>		<b>11-14 cr.</b>
Laboratory Science .....		8
Foundations of Math I .....		3
General Electives:		
Astronomy	Geology	
Computer Mathematics	Statistics	
°°Foundations of Mathematics II		
<b>III. Social Science</b>		<b>15 cr.</b>
Each student will elect 5 courses from the following:		
American Citizenship	History of Civ. II	
Intro. to Anthropology	°°°Hist. of U. S. & Pa. II	
Principles of Economics	°°°General Psychology	
World Geography	Principles of Sociology	
<b>IV. ROTC or Physical Education</b>		<b>4 cr.</b>

°Required of all Liberal Arts students. Optional for other students.

°°Required of all Elementary Education majors.

°°°Required of School of Education students.

## THE SCHOOL OF ARTS AND SCIENCES

William W. Hassler, Dean

Many of the courses, institutes, workshops and seminars in our summer school program are applicable to the Liberal Arts. The program of studies in the School of Arts and Sciences is designed to enable the student to pursue a general program, a study in depth within a chosen subject, an inter-disciplinary program or a pre-professional program of study. All students in this school are required to take the program in General Education of 52 semester hours as outlined on page . Each student also must elect a major in one of the subject fields in the Humanities, Natural Sciences or the Social Sciences. He may also elect a minor in a field approved by his adviser. The overall graduation requirement is 124 credits.

Students in the Liberal Arts program may receive either the Bachelor of Arts or Bachelor of Science degree depending on their program of study. Students in the Humanities and Social Sciences will be awarded the A.B. degree, whereas those in Natural Science who complete the prescribed requirements for a single area of concentration may receive the B.S. degree or the A.B. degree

depending upon the program elected. The major fields of study in the three divisions are as follows:

<b>Humanities</b>	<b>Natural Sciences</b>
English, Speech-Theater	Biology
Foreign Languages	Chemistry
Philosophy	Mathematics
	Medical Technology
	Physics
	<b>Social Sciences</b>
Economics	Psychology
History	Geography
	Political Science
	Sociology-Anthropology

## **THE SCHOOL OF FINE ARTS**

**Harold S. Orendorff, Dean**

The School of Fine Arts consists of four departments in two administrative units; the Art and Art Education Department, and the Music and Music Education Department.

One requirement in the General Education program for all students of the University, is the option of a course in Art, Music or Theatre. The School of Fine Arts offers Introduction to Art and Introduction to Music to fulfill this requirement.

After a two year core program, the Art student may major in Art Education; Art History; drawing, painting and sculpture; or Design.

The Music student may major in Music Education or Music Performance.

All students in the School of Fine Arts must complete the requirements in General Education as listed in their sequence in the main catalogue. Those majoring in Art Education and Music Education must also complete the requirements in Professional Education.

## **THE SCHOOL OF BUSINESS**

**Albert E. Drumheller, Dean**

The establishment of a School of Business was authorized by the Board of Trustees of the University in May, 1966. In doing so, it was indicated that the School should consist of two departments.

The Department of Business Education, which has been one of Indiana's areas of specialization for some fifty years, represents one

of the departments. This area of education is designed to prepare teachers for the secondary school. The second and newly instituted department is designated as Business Management. The primary purpose of this area of study is preparation for activity in the world of business.

**General Education.** The credit requirements in General Education are the same in the School of Business as they are in all other areas of the University. Slight variations in specific courses needed to meet the General Education requirements exist in the two departments of the school.

**Areas of concentration.** Those persons enrolled in **Business Education** have a choice of three areas of specialization. Accounting, secretarial and the retailing field represent the possibilities. It is a requirement of the department, that all persons enrolled in this area choose two of the fields according to their interests and desires, in order to meet the department's standard for graduation. All state requirements for certification are more than adequately met in Indiana's curriculum. Additional hours beyond the State's requirement enrich the student's preparation for teaching in their chosen fields. Student Teaching under supervision provided at the centers where this experience is gained combined with supervision from the college during this stage of training provides a fine conclusion to the preparation for teaching. It is an experience which brings together in a useful form all of the trainees academic preparation.

**Business Management** consists of a curriculum that is common to all those enrolled during the first two years of the program. Beginning with the Junior year a choice is made for the purpose of concentrating in either accounting, general management and office management. In each of these areas provision has been made for a generous election of a wide variety of courses in business and economics designed to broaden the student's background. Not only is it possible to concentrate in a particular field, it is also possible to add a generous training in automated data processing. The computer center on our campus is a rapidly developing area with modern equipment available for training in this important field of modern business.

## THE SCHOOL OF EDUCATION

George A. W. Stouffer, Jr., Dean

The School of Education offers many fields of major study leading to certification to teach these subjects in the public as well as the private schools of Pennsylvania. The program includes studies in general education, specialization in both academic

subjects and special fields, and professional education including directed student teaching.

**General Education.** All students in the School of Education are required to take the same general education program of 60 semester hours as indicated for liberal arts students. Approximately two-thirds of this work is taken during the first two years of college.

**Major Fields of Study.** Major studies may be pursued in the academic subjects of Biology, Chemistry, Earth Science, English, French, Geography, German, History, Mathematics, Physics, Russian, General Science, Social Science and Spanish. Students may also major in Art, Business, Home Economics, Music, in Elementary Education, and in such special fields as Speech and Hearing, Mentally Retarded, Public School Nursing and Dental Hygiene.

In most instances the number of semester hours required for a major in the foregoing fields exceeds the requirement for certification. The course and semester hour requirements for these major fields of study may be found in the regular university catalog.

**Professional Education.** Students in the School of Education are required to take from 24 to 27 semester hours of professional education. Within this program all students are required to take History and Philosophy of American Education, Educational Psychology, Audio-Visual Education, a course in the teaching of their major subject and 14 semester hours of Student Teaching and Professional Practicum. Elective course in Psychology and Professional Education are offered for those who are interested in increasing their professional competence.

## THE SCHOOL OF HOME ECONOMICS

Ella C. Bendix, Dean

The School of Home Economics offers two major areas of study. One leads to certification to teach general and vocational home economics in the public as well as private schools, and the second leads to certification in school food service and to a dietetic internship. The educational program includes studies in general education, in home economics and in professional education including directed student teaching and school food service experiences. Upon graduation dietetic internship appointments are available to qualified students.

**General Education.** All students in the School of Home Economics are required to complete the general education program

planned for all university students. Approximately two-thirds of this work is taken during the first two years of college.

**Major Areas of Study.** Major areas of study may be pursued in home economics education and in institutional food services. The number of semester hours required for a major in the foregoing areas may exceed the requirements for certification. The course and semester hour requirements for each of these two major areas of study may be found in the regular college catalog.

**Professional Education.** Students in the School of Home Economics are required to take from 16 to 22 semester hours of professional education. Within this program all students are required to take History and Philosophy of American Education, Educational Psychology, Audio-Visual Education, Methods of Teaching and directed student teaching or a school food service experience. For qualified School of Home Economics graduates a dietetic internship in approved hospitals or other types of institutional food service operations is available.

## THE GRADUATE SCHOOL

J. Leonard Stright, Dean

Indiana University of Pennsylvania offers programs of study leading to the degrees: Master of Arts, Master of Education, or Master of Science.

Graduate credit is issued to students who are admitted to the Graduate School and who are registered in the graduate courses. (Courses numbered 500 or above.)

The graduate programs and courses are **not** listed in this bulletin but are shown in the "Graduate Bulletin." Interested persons should write to the Dean of the Graduate School for information regarding admission, course offerings, and degree requirements. Applications for admission to the Graduate School for summer work should be filed in the Graduate Office prior to May 15.

A qualified graduate student may earn the Master of Arts Degree in English, History, Geography, and Counseling Services. The Master of Education Degree is offered in Art, Biology, Business, Chemistry, Counselor Education, Elementary Education, Elementary Science, English, Geography, Home Economics, Mathematics, Music, Physics, Science, Social Science, Spanish, Special Education, and Speech & Hearing. A program leading to the Master of Science Degree is available in Mathematics, Geography, and Physics.

**INSTITUTES, WORKSHOPS, CLINICS, AND SEMINARS****Aerospace Workshop****3 cr.**

This workshop will be conducted as a seminar with a number of visiting aerospace authorities. It treats of the atmosphere and space environment; history of flight and flight problems; satellites and space probes: manned orbital and space exploration projects; propulsion; communication, and other systems. Problems of teaching and bibliography at the various elementary and secondary levels will be considered. An indoctrination flight in a small craft and field trips to air age installations and projects fortify learning.

A field trip fee of \$20.00 will be collected for the air trips and supplies with the understanding that meals and lodgings at points visited will be available to the students at nominal costs. The group will be limited to 25 due to air flight arrangements and field trip preparations.

This course may be taken for graduate (Geog 565), undergraduate (Geog 491), or as a non-credit course.

**Drama Workshop****3 to 6 cr.**

For the past eleven summers the university has conducted a very successful drama workshop, which has attracted widespread attention. Sets, make-up, properties, publicity and ticket distribution are among the important and exacting duties in the day's work for those in the workshop. Eight full-length plays of good quality, given during the summer sessions, offer opportunity for acting, prompting and assisting in many phases of production.

Students who participate in this Workshop may receive credit for one, two, or three of the following courses: Dramatic Arts, Play Production, Creative Dramatics and Story Telling, Costume and Make-up, and Stagecraft and Scenic Design. Each of these courses carries three semester hours credit.

The drama workshop cooperates with the Summer Theater Guild, a university-community summer theater project which uses university facilities in Fisher Auditorium for the presentation of the eight plays. The Sunday edition of the **New York Times** regularly carries notices of its offerings. Guild personnel will again include community people and some imported actors, directors, and technical specialists. Working with these people provides excellent experience in dramatics for university students and yields from three to nine hours of credit.

**Summer High School Band Institute** **Non-credit**

This Institute is assigned to provide one week of intensive instruction to the outstanding high school musician. It culminates with a concert on the final day. June 17 - 22, 1965.

**Casavant Marching Band Workshop** **1 cr. or non-credit**

The Casavant Marching Band Workshop is comprised of a series of workshops extending from June 24 to June 29. The Workshop will be directed by Professor A. R. Casavant, noted author and band director of Chattanooga, Tennessee. A special fee ranging from \$10.00 to \$30.00 will be charged for each of the workshops. The sessions of these workshops will be scheduled as follows:

**Drum Major Workshop—June 27, 28, 29**

Open to high school and college students who are concerned with the technique of "running" a band for parades or on the football field.

**Precision Drill Workshop—June 24, 25, 26**

The fundamentals of precision drill will be presented for high school band members. This workshop is designed to help the band director who makes use of student leaders or "rank captains." This workshop is also open to band directors who have never studied the elements of drill.

**Directors Workshop—July 1 - 5**

One or two "laboratory" high school bands will be here for the practical application of the theory of precision drill. Band directors will be coached on the system of developing precision drills and will be given the opportunity of seeing their drills performed.

**Student Teaching Clinic and Professional Practicum** **3 to 6 cr.**

A student teaching clinic will be offered in the field of Special Education—the Mentally Retarded during the Main Summer Session. The clinic will fulfill the student teaching requirements for certification in this field. Students should take the course in Special Class Methods for the Mentally Retarded along with this Clinic unless they have already had the course. Students will receive three semester hours credit for the clinic and three semester hours credit for the course in Special Class Methods.

**Observation and Participation**

Students of the college desiring to observe a class or an activity in Keith School during the main session may do so as individuals or as members of organized groups. Arrangements

for such observations are made with the Director of Professional Laboratory Experiences.

### **Contemporary Europe, 1968**

The Social Science Department will sponsor a study tour of Europe between June 24 - July 31, 1968. The tour will visit England, Holland, Denmark, West Germany, East Germany, Austria, Italy, San Marino, Switzerland, and France. Students are required to do background reading prior to embarkation. A series of lectures has been scheduled which will emphasize the contemporary political, social, economic and military organization of the continent. The course will carry six semester hours of credit. Cost of the tour has been fixed at \$1,299 exclusive of tuition. Interested students should write immediately for information to: Contemporary Europe, Social Science Division, Indiana University of Pennsylvania, Indiana, Pennsylvania.

### **School Food Service Institutes**

For the eleventh year Indiana University of Pennsylvania will participate in the summer institute program offered for school food service employees. No college credit is given, but every effort is made to solve the problems of employees in all positions. State, Federal and regional specialists assist. The Indiana School systems provide supplementary facilities. Expenses include a \$35 registration fee plus an additional charge for Sunday tea, lodging, breakfasts and three dinners.

Managers and school food service employees who have attended several institutes should seriously consider enrolling in such credit courses as Meal Management, Advanced Foods, Nutrition, Food & Service Management, Nutrition Education, Food Purchasing, Methods in Teaching, Physiology, Chemistry, or Microbiology, since certification requirements are a future necessity in this field.



**THE ART DEPARTMENT****Lawrence F. McVitty, Department Chairman**

- Art 101 Introduction to Art** 3 cr.  
Studies in the understanding and enjoyment of the visual arts as modes of expression, feeling, and communication make up the content of this course. Reproductions, demonstrations, slides, moving pictures as well as field trips to see original works of art, are used in sampling our cultural heritage.
- Art 112 Composition and Figure Drawing** 3 cr.  
Figure construction, anatomy, and life drawing are studied. Included are pictorial design and composition.
- Art 113 Color and Design** 3 cr.  
Basic elements and principles of design and color are studied. Problems in two and three dimensional design are completed.
- Art 115 Art History I** 3 cr.  
For Education and Liberal Arts Students. The visual arts are studied as modes of expression in relation to the culture of particular periods in history; Prehistoric to Renaissance.
- Art 116 Art History II** 3 cr.  
For Education and Liberal Arts Students. A study of painting, sculpture, and architecture in the context of periods in history; Renaissance to Twentieth Century.
- El 213 Art for the Elementary Grades** 3 cr.  
The creative growth and the development of artistic expression is studied. Students are given experiences in the basic art materials and media, as well as an opportunity to plan art motivations for children.
- El 214 Teaching Art in Elementary Grades** 3 cr.  
This course provides the student with elementary craft experiences with art materials supplemented by scrap. Emphasis is placed upon the creative challenge of a materials experience.
- HE 213 Principles of Design** 3 cr.  
Principles of Design and Color are studied and applied to some art work.
- Art 213 Crafts I (Crafts in Metal and Wood)** 3 cr.  
In this course the student is given an opportunity to develop his design awareness through experiencing those craft processes associated with wood and metal. Hand and power tools are used to experiment with these materials in discovering inherent design and construction possibilities.

**Art 218 Lettering, Commercial Art** 3 cr.

Layouts are analyzed as to their quality. The students explore various techniques and how they can be translated into commercial art work, package design, trademark and other design problems are confronted. Lettering is stressed, both instant type and hand lettering.

**Art 330 Arts and Crafts for the Mentally Retarded** 3 cr.

The materials and processes of arts and crafts are studied for opportunities they offer in the training, therapy and education of students who are mentally retarded, crippled, or need special help for any reason.

**Art 412 Graphic Arts** 3 cr.

The techniques of graphic expression studied are etching, lithography, block printing, photography, engraving, and silk screen printing. (May be taken for advanced elective credit Art 457).

**BIOLOGY DEPARTMENT**

Donald E. Hoffmaster, Chairman of Department

**Biol 103 General Biology I** 4 cr.

This course deals with the principles of biology. Topics include cellular structure and physiology, growth and repair, reproduction and development, control sources of food energy, inheritance, and man's inter-relationship with his biological environment. The classification of plants and animals is reviewed briefly.

**Biol 104 General Biology II** 4 cr.

A continuation of General Biology I.

**Biol 251 Field Botany** 3 cr.

Prerequisites: General Biology I and II

This is a course in the taxonomy of the vascular plants of the region. It includes the ferns, fern allies, shrubs, trees and herbaceous plants. The use of the standard manuals for the identification of plant materials is stressed. Students are required to make collections for their future use in teaching situations. Two hours lecture and three hours laboratory per week.

**REQUIRED COURSES FOR STUDENTS IN  
ELEMENTARY EDUCATION****Biol 311 Environmental Biology** 4 cr.

This is a laboratory and field course that provides the student with basic knowledge in biology as well as some practical aspects.

**E1 312 Teaching of Elementary Science** 3 cr.

The fundamental areas of physics and chemistry are covered in this course. Student participation is fundamental to their understanding of the basic principles that can be transferred to the elementary classroom, and to their familiarization with scientific equipment. The latter part of the course is devoted to a survey of the biological environment and continues the work begun in Elementary Science.

**REQUIRED COURSES FOR STUDENTS IN  
HOME ECONOMICS****Biol 151 Physiology for Home Economics** 3 cr.

This is a study of the various physiological processes occurring in the human body and the functioning of the various tissues and organs.

**Biol 361 Microbiology (Sanitation)** 3 cr.

This course is a study of microscopic forms of life, both plant and animal, which are commonly encountered in biological work. Some emphasis is placed on the study of disease-producing species of man and his domesticated animals. Methods of culturing forms used in high school teaching are studied.

**BUSINESS EDUCATION DEPARTMENT**

James K. Stoner, Chairman

**Bus 111 Foundations of Math (Business)** 4 cr.

This is a review of the fundamental processes with emphasis on speed and accuracy through adequate drill and practical application in the handling of the fundamental business operations. Topics considered which especially concern business are the 60-day 6 per cent method of computing interest, compound interest; bank, cash and trade discount; along with partial payments. The course is a prerequisite and designed to lay a groundwork for Business Mathematics II.

**Bus 131 Principles of Typewriting** 3 cr.

For those persons who have had 1½ or more years of experience in this area in high school, a test is given and exemption from taking the course granted if course standards are met.

This introductory course places emphasis on the development of correct techniques in typewriting. The student is introduced to the basic styles of business letters, simple tabulations and simple manuscripts. Individual remedial work is given. Specific standards of speed and accuracy are required.

**Bus 132 Intermediate Typewriting** 3 cr.

This course continues the development of speed and accuracy. Students learn to type tabulated reports, special problems in letter arrangement and business forms, rough drafts, spirit duplicating and manuscripts. Production ability is developed.

**Bus 212 Business Mathematics II** 3 cr.

The purpose of this course is to teach students to apply principles of business mathematics with speed and accuracy in solving advanced problems encountered by the business man and the consumer. The mathematics of production, marketing, accounting, finance, and management correlate with the accounting courses.

**Bus 251 Intermediate Accounting (Repeat Only)** 3 cr.

Prerequisite: Bus 221, a "C" average in Business Mathematics and English.

Special consideration is given in connection with accruals and deferred items; the significance and handling of evaluation accounts and the interpretation of the effect of all types of transactions on the operation of the business are stressed throughout the course. Attention is given to the voucher system and to the preparation of columnar records for different types of businesses along with the preparation and interpretation of comparative financial reports. Consideration is given to the legal and accounting aspects, payroll and partnership organization, operation and dissolution.

**Bus 271 Advanced Typewriting** 3 cr.

Emphasis is placed upon the further development of speed and accuracy. Advanced letter forms, manuscript writing, legal documents, stencil duplication, statistical reports and typing from problem situations are given much attention. Improvement in production ability is stressed.

**Bus 311 Methods of Teaching Business Courses** 3 cr.

This includes methods of teaching general business courses, as well as shorthand, typewriting, and bookkeeping. Unit plans, demonstrations and lesson planning are emphasized. Aims, techniques and procedures of teaching, grade placement of subjects and classroom management are considered items of the course. All courses in the student's major area up to this point along with the two Psychology courses must have been cleared before this course is taken.

**Bus 312 Evaluative Techniques in Business Courses** 3 cr.

This course includes the construction, administration, scoring, treatment and grading of various type tests. The analysis of test

results, remedial teaching and retesting, the evaluation of tests, all tied together in the psychological foundation of good methods as they function in the field of Business Education.

**Bus 321 Business Communications** 3 cr.

This is a course rich in the fundamentals of grammar; study of the vocabulary of business; setup of business forms and modern business letters; emphasis of the "you" attitude in the writing of letters of inquiry, response, order letters, adjustment letters, sales letters; preparation of data sheets, and application letters.

**Bus 335 Clerical Practice and Office Machines** 3 cr.

Clerical office routine is covered, together with the fundamentals of operating various office machines—calculators, adding machines, dictaphones, and various office appliances; also, the theory and practice of office management is stressed.

**Bus 336 Business Law II** 3 cr.

Prerequisite: Bus 235

The basic aim of this course is the same as that stated for Business Law I. Attention is given to kinds of business organizations, sales, insurance, surety and guaranty, leases and mortgages, trusts and estates, bankruptcy, business torts and crimes.

**Bus 352 Corporate Accounting** 3 cr.

Special attention is given to the records and reports peculiar to the corporate form of organization as well as to the methods of handling capital and surplus. Emphasis is given to the methods of accounting for inventories, tangible and intangible fixed assets, investments, long-term liabilities, funds and reserves and the methods of amortizing bond premium and discount.

**Bus 353 Cost Accounting** 3 cr.

This course is designed to give the students an understanding of the theory of costing used in manufacturing establishments. The voucher system is introduced in this course and attention is given to budgeting, estimating and prorating of manufacturing expenses, the technical aspects of charting production data, and investigating time and motion study techniques.

**Bus 433 Retailing Practice** 6 cr.

This is a practical course of cooperative part-time training in the retail establishments of Indiana. The student spends a minimum of 15 clock hours per week for a semester in actual retail work at which time he puts into practice the theories of retailing studied in previous retail training courses. This course may be taken by the student in or near his home town during

the summer term by special arrangement and provided the distance is no greater than fifty miles from Indiana. This plan is operated under close supervision of store officials and a representative of the College. This plan can also be used in connection with office work for those in Stenographic and the Accounting fields.

**Bus 454 Federal Taxes** **3 cr.**

Prerequisite: Bus 352

This course is designed to enable the students to gain a familiarity with the Federal Income Tax Laws as they pertain to individuals, single proprietorships and partnerships. The Social Security Tax Law will also be considered as a phase of this course. In addition to studying the Internal Revenue Code in connection with the above topics, problems will be considered which involve the use of the different forms that are necessary in tax accounting. The case method is utilized in the study of this subject.

**Bus 455 Auditing** **3 cr.**

Prerequisite: Bus 353

A general review of the qualifications, duties, responsibilities, and professional ethics of auditors. A study of auditing theory and the practical application of auditing standards and procedures to the verification of accounts and financial statements; working papers; and audit reports.

## BUSINESS MANAGEMENT DEPARTMENT

Charles L. Cooper, Department Chairman

**Bm 111 Foundations of Math (Management)** **3 cr.**

This course is designed to provide a broad survey of the fundamental processes of mathematics as applied to business. Emphasis will be placed on the principles of solving business problems by the use of mathematics. Specific areas of concentration include: percentage, interest, discount, annuities, valuation of stocks and bonds, sinking funds, amortization plans, factoring, depreciation, pricing, taxes, insurance, and valuation.

**Bm 215 Business Statistics** **3 cr.**

Prerequisites: Bm 111, Math 362

The major objective of this course is the application of statistical methods which are useful in guiding business decisions. Emphasis will be placed upon such statistical techniques as measures of central tendency, measures of dispersion, measure of relationship, sampling, and index numbers.

**CHEMISTRY DEPARTMENT****Paul R. Wunz, Jr., Department Chairman****Chem 111-112 General Chemistry I and II** 8 cr.

General Chemistry I includes the study of the nature of matter, atomic structure, periodic law, chemical bond, stoichiometry, gases, liquids, solids, and solutions. General Chemistry II includes chemical kinetics, chemical equilibrium, electrical energy and chemical change, oxidation and reduction, descriptive chemistry, and organic chemistry.

**Chem 101-102 Home Economics Chemistry I and II** 6 cr.

This course is planned to include those topics from the fields of organic chemistry and biochemistry that are most important for the student of home economics. The structures, properties, and preparation of the various classes of organic compounds are surveyed. This information then serves as a basis for the study of various materials encountered by a professional home economist, whether teaching or employed by private industry.

**Chem 351 Biochemistry** 3 cr.

Prerequisite: Organic Chemistry I

A study of the chemistry of carbohydrates, lipids, proteins, minerals, and vitamins as well as the biological functions of each. Two hours lecture and three hours lab per day.

**Sci 106 Physical Science II** 4 cr.

A course designed to fulfill the University science requirement for non-science majors. This course will survey the fields of chemistry and geology.

**Sci 111 Science in Modern Civilization** 3 cr.

This course is designed to convey an awareness of the scope and importance of science in our own and in other cultures that make up modern civilization. Emphasis is placed upon developing a philosophy about science which is the outgrowth of an understanding of its history, methods, and objectives. Both physical and biological science areas are investigated including health, applied physics and chemistry, natural resources and space.

**Chem 231-232 Organic Chemistry I and II** 8 cr.

Prerequisites: General Chemistry I and II

A study of the compounds of carbon with special emphasis being placed on the structure and reactions of the more important classes of carbon compounds. The laboratory work involves the preparation and purification of representative compounds. Three hours lecture and three hours laboratory per week.

**Chem 305-306 New Approaches to Teaching****High School Chemistry****6 cr.**

A course designed to acquaint the teacher and prospective teacher with the newer approaches to high school chemistry. One semester would consider the Chemical Bond Approach curriculum and the other semester the Chem Study curriculum. The student must be at least a junior chemistry education major. Arts and Science majors may take the course but will not be given credit towards graduation. Three hours to be divided between lectures and laboratory.

**ECONOMICS DEPARTMENT****Francis G. McGovern, Chairman****Econ 121 Principles of Economics I****3 cr.**

Introduction to the nature and scope of economics; examination of universal principles and laws of economic activity; study of the structure of American capitalism; the role of money and banking; the role of government; national income, its fluctuations and growth.

**Econ 122 Principles of Economics II****3 cr.**

The study of what determines value: the problem of pricing goods and services; the problem of pricing the factors of production; understanding the kinds of competition; introduction to the problems of labor, international trade, world poverty, competing economic systems.

**Econ 325 Money, Banking, and Monetary Policy****3 cr.**

(Prerequisite: Econ 121, or Econ 101 if accepted in substitution)

Organization, operation, and economic significance of American monetary institutions; commercial banks and the Federal Reserve System; monetary theory and policy; the mechanism of international payments.

**Econ 330 Industrial and Labor Relations****3 cr.**

(Prerequisite: Econ 121, or Econ 101 if accepted in substitution)

Worker-management-government relationships in the industrialized segment of the American economy: history, structure, and operations of trade unions and employer organizations; major federal labor sector legislation; collective bargaining theory; wage determination; current labor problems.



**Econ 350 Comparative Economic Systems** 3 cr.

(Prerequisite: Econ 121, or Econ 101 if accepted in substitution)

Capitalism, socialism, communism, and fascism subjected to economic analysis: their principles, practices, institutions, and philosophies.

**EDUCATIONAL FOUNDATIONS DEPARTMENT**

**Harold J. Youcis, Chairman**

**Ed 302 History and Philosophy of Education** 3 cr.

This course is designed to promote a clearer understanding of the modern educational system through a study of historical changes in instructional processes and ideas underlying it. Through the emphasis placed upon the study of educational beliefs and points of view, the course seeks to foster critical thinking which will lead to better judgment about the role of the school in our social structure, the meaning of democracy, the teacher and his profession, and the methods and objectives of the school.

**Ed 305 Evaluative Methods** 3 cr.

This course includes elementary statistics concerning graphs, sampling, frequency distribution, averages, measures of central tendency and dispersion, and the normal curve. Emphasis is placed on an understanding of the various evaluation instruments with much attention given to standardized tests, how to select them wisely, and how to interpret and use the results. The course also includes the use and construction of tests made by the teacher, and the systems of reporting pupil growth.

**Ed 454 Public School Administration** 3 cr.

The course is designed to acquaint the teacher with the administration and organization of the American public school. Attention is given to the cultural role of the schools. Treatment is given to decision-making in the operation of the schools and the total task of school operation with emphasis on what should be done. The functions and methods of all professional personnel in the operation and improvement of the schools will be considered.

**Ed 455 Comparative Education** 3 cr.

A brief study of historical backgrounds in education followed by an examination of contemporary educational systems in Eastern and Western civilizations.

PRE-SESSION June 10 - June 28	Begins July 1 8:15 to 9:40 A.M.	MAIN SESSION 11:25 to 12:50 P.M. 9:50 to 11:15 A.M.	Ends August 9 1:00 to 2:25 P.M.	POST SESSION August 12 to August 30
<b>Art</b> 1 Art 115 Art History I 1 El 213 Art for El Gr 1 El 213 Art for El Gr 1 El 214 Tech Art El Gr 2 Art 101 Intro to Art	El 213 Art for El Gr El 213 Tech Art El Gr Art 112 Comp & Fig Dwg Art 330 Art & Crafts for Ment. Ret.	Art 218 Let & Comm Art Art 101 Intro to Art	Art 101 Intro to Art Art 112 Comp & Fig Dwg	1 Art 116 Art Hist II 1 HE 213 Prin of Design 2 Art 101 Intro to Art 2 Art 412 Graphic Art
<b>Biology</b> 1 Bio 103 Gen'l Biology I (Sec 1)* 1 El 312 Tech Elem Sci 1 Bio 361 Microbiology 2 Bio 103 Gen'l Biology I (Sec 2)* *Meets 6 days per week 4 cr - June 7 - June 29	El 312 Elem Science Bio 311 Env'l Biology-4 credits Bio 103 Gen'l Biology I (Sec 1-July 1 to July 26-4 credits) Bio 103 Gen'l Biology I (Sec 2-July 1 to July 26-4 credits) Bio 104 Gen'l Biology I (Sec 1-July 29 to August 23-4 credits) Bio 104 Gen'l Biology I (Sec 2-July 29 to August 23-4 credits) Bio 151 Physiology for Home Econ	Art 113 Color & Design Art 213 Craft Metal & Woodworking	Bio 251 Field Botany Bio 361 Microbiology (Sec 2)	1 Bio 104 Gen'l Biology II (Sec 1)* 1 Bio 311 Env'l Biology* 2 Bio 104 Gen'l Biology II (Sec 2)* *Meets 6 days per week 4 credits-Aug 9 - Aug 31
<b>Business Education</b> 1 Bus 336 Bus Law II (Meets 11:12-30 June 10 to July 19) 1 Bus 352 Corp. Acct'g (Meets 8:30-10 June 10 to July 19) 2 BE 311 Methods of Tech Bus Courses (Meets 12:30-2:00 June 10 to July 19)	Bus 131 Prin of Typing BE 312 Eval Tech (July 22 - Aug 9) BE 111 Found of Math (4 credits) BE 212 Business Math II BE 311 Tech Bus Courses (Cont'd from Pre)	Bus 251 Intern Acct'g Bus 335 Ofc Machines Bus 353 Cost Acct'g (July 22 - Aug 9) Bus 352 Corp Acct'g (Cont'd from Pre)	Bus 321 Bus Communication	1 Bus 353 Cont'd from Main 1 Bus 455 Cont'd from Main 2 BE 312 Eval Tech in Tech
<b>Business Management</b> 2 BM 215 Bus. Statistics (Meets 9:30-11:00 June 10 to July 19)	BM 111 Found of Math (Mgt)	BM 215 Bus Statistics (Cont'd from Pre)		
<b>Chemistry</b> 1 Chem 101 Home Ec (Chem I) 1 Sci 106 Phys Sci II* 1 Chem 305 New Approach to Tech Hi Sch Chem I 1 Chem 351 Biochemistry *Meets 6 days per week 4 Cr--June 7 to June 29	Sci 106 Phys Sci II (July 1 to July 28-4 Cr) Chem 111 Gen'l Chem I (July 1 to July 28-4 Cr) Chem 112 Gen'l Chem II (July 31 to August 25-4 Cr) Chem 231 Organic Chem I (July 1 to July 28-4 Cr) Chem 232 Organic Chem II (July 31 to August 25-4 Cr) Sci 111 Sci in Modern Civ			1 Chem 102 Home Ec Chem I 1 Sci 106 Phys Sci II* 1 Chem 306 New Approach to Tech Hi Sch Chem II *Meets 6 days per week-- 4 Cr--Aug 9 - Aug 31
<b>Economics</b> 1 Econ 121 Prin of Econ I 2 Econ 350 Comp. Econ Systems	Econ 330 Ind. & Labor Relations	Econ 122 Prin of Econ II	Econ 325 Money, Banking & Monetary Pol	2 Econ 121 Prin of Econ I
<b>Educational Foundations</b> 1 Ed 302 Hist & Phil of Amer. Educ	Ed 457 Secondary Sch Curr Educ Ed 455 Comp Educ	Ed 302 Hist & Phil of Amer Educ Ed 456 Issues and Trends in Education Ed 305 Eval Methods	Ed 454 Pub Sch Admin Ed 305 Eval Methods	

<b>Educational Psychology</b> 1 Ed Psy 302 Educ Psy (Sec 1) 1 Ed Psy 372 Psy of Childhood Educ Seminar in Learning Prob 1 Ed Psy 376 Studies in Behavior Prob 2 Ed Psy 302 Educ Psy (Sec 2)	Ed Psy 263 Devel Reading Ed Psy 373 Adv Psy (for teachers) Ed Psy 376 Studies in Behavior Prob	Ed Psy 372 Psy of Childhood Ed Ed Psy 378 Seminar in Learning Prob	Ed Psy 302 Ed Psy (Sec 1) Ed Psy 377 Educ. Tests & Measurements Ed Psy 302 Ed Psy (Sec 2)	Ed Psy 222 Techg of Reading in Elem Sch in Prim Grades Ed Psy 451 Techg of Reading in Prim Grades	1 Ed Psy 302 Ed Psy (Sec 1) 1 Ed Psy 376 Studies in Behavior Prob 1 Ed Psy 377 Educ Tests & Measure-ments 2 Ed Psy 302 Ed Psy (Sec 2)
<b>Elementary</b> 1 Ed 356 Grad in Elem School 1 El 461 Org of Elem Sch & Curr 2 El 413 Techg of Lang Arts	El 221 Child Lit El 222 Techg of Reading (Sec 1) El 452 Sec Studies in Prim Grades	El 352 Diag & Remed Reading El 461 (Cont'd) El 462 Innov in Elem Ed	El 222 Techg of Reading (Sec 2) El 411 Techg of Social Studies	1 El 351 Creat Activities in Elem Sch 1 El 451 Techg of Reading in Prim Grades	
<b>English</b> 1 Eng 201 Lit I 1 Eng 238 Nature of Drama 1 Eng 242 Am Lit to 1865 1 Eng 251 Hist of Eng Lang 2 Eng 201 Lit I 2 Eng 201 Class Lit 1 Eng 221 Journ Writing 2 Eng 243 Cont Short Pic	Eng 201 Lit I (Section 1) Eng 241 Journ Writing Eng 242 Oral Reading Eng 244 Poetry and Its Forms Eng 301 Lit II Eng 356 Eng Essayist	Eng 211 Class Lit Eng 214 Shakespeare Eng 219 Ake of Milton Eng 271 Mod Am Fiction Eng 363 Struc of Eng Speech & Read	Eng 212 Am Lit to 1865 Eng 242 Adv Comp Eng 242 Am Novel Eng 301 Lit II	1 Eng 201 Lit I 1 Eng 234 Metaphys Poets 2 Eng 244 Poets and Its Forms 2 Eng 301 Lit II	
<b>Drama Workshop</b> Eng 231 Dramatic Arts Eng 371 Play Production Eng 372 Creative Drama, & Story Telling Eng 378 Costume & Makeup Eng 379 Stagecraft	Eng 101 English I (Section 1) Eng 101 English I (Section 2-5 credits) Eng 101 English I (Section 3-5 credits) Eng 101 English I (Section 4-5 credits) Eng 101 English I (Section 5-5 credits) Eng 101 English I (Section 6-5 credits) Eng 101 English I (Section 7-5 credits)	Eng 101 English I (Section 1) Eng 101 English I (Section 1) Eng 101 English I (Section 1) Eng 101 English I (Section 1) Eng 102 English II (Section 1-5 credits) Eng 102 English II (Section 2-5 credits) Eng 102 English II (Section 3-5 credits) Eng 102 English II (Section 4-5 credits)	Eng 212 Am Lit to 1865 Eng 242 Adv Comp Eng 242 Am Novel Eng 301 Lit II	1 Eng 201 Lit I 1 Eng 234 Metaphys Poets 2 Eng 244 Poets and Its Forms 2 Eng 301 Lit II	
<b>Foreign Language</b> 1 Sp 151 Spanish I 2 Fr 151 French I	Sp 152 Spanish II Lang 421 Lang & Society Geo 149 Econ Geog Geo 154 Cult Geog	Ger 151 German I Geo 251 Geog of Anglo-America	Sp 151 Spanish I Geo 101 World Geog Geo 456 Intro Ughlan Reg Plan II	1 Sp 152 Spanish II 2 Fr 152 French II 1 Geo 101 World Geog 1 Geo 251 Geog of Anglo-America 2 Geo 451 Geog So Am	
<b>Geography</b> 1 Geo 154 Cult Geog 1 Geo 441 Geog Seminar 1 Geo 462 Field Tech in Geog 2 Geo 101 World Geog 2 Geo 251 Geog. of Anglo-America 2 Geo 491 Aecrop Soc	Geo 149 Econ Geog Geo 154 Cult Geog	Geo 251 Geog of Anglo-America	Geo 101 World Geog Geo 456 Intro Ughlan Reg Plan II	1 Geo 101 World Geog 1 Geo 251 Geog of Anglo-America 2 Geo 101 World Geog 2 Geo 251 Geog So Am	

Classes in Pre and Post Sessions will be scheduled as follows: Classes with the numeral "1" before them will meet from 8:00 to 9:30 A.M. and from 11:00 to 12:30 P.M. Those with the numeral "2" before them will meet from 9:30 to 11:00 A.M. and from 12:30 to 2:00 P.M. All classes are 3 credits unless otherwise indicated.

PRE-SESSION June 10 - June 28		Begins July 1		MAIN SESSION		Ends August 9		POST SESSION August 12 to August 30		
8:15 to 9:40 A.M.		9:50 to 11:15 A.M.		11:25 to 12:50 P.M.		1:00 to 2:25 P.M.				
<b>Health</b>	1 El 314 Tchg Health & Phys Ed 2 HPe 102 Phys Ed I* 2 HPe 203 Phys Ed II* *(1:00 - 2:30 1 cr)	HPe 251 Intro to Safety HPe 252 Driver Educ	HPe 253 Meth & Mat in Safety Educ	HPe 204 First Aid* HPe 254 Org & Adm of Safety Educ HPe 101 Health** * 1 credit ** 2 credits	HPe 102 Phys Ed I* HPe 203 Phys Ed II* HPe 255 Psy of Accid Prevention HPe 101 Health** * 1 credit ** 2 credits	1 HPe 204 First Aid (1 cr) (9:30 - 11:00) 1 HPe 251 Intro to Safety 2 HPe 203 Phys Ed I* 2 HPe 202 Phys Ed II* *(1:00 - 2:30 1 cr)				
<b>History</b>	1 Hist 102 Hist of Civ II 1 Hist 103 Hist of US & Pa I 1 Hist 104 Hist of US & Pa II (Sec 1) 1 Hist 104 Hist of US & Pa II (Sec 2) 1 Hist 379 Hist of Russia 2 Hist 102 Hist of Civ II 2 Hist 104 Hist of US & Pa II	Ed 451 Tchg Soc Stud Hist 102 Hist of Civ II (Sec 1) Hist 103 Hist of US & Pa I (Sec 1) Hist 101 Hist of Civ I (Sec 1)	Hist 101 Hist Civ I (Sec 2) Hist 104 Hist of US & Pa II (Sec 2) Hist 363 Dipl Hist of US Hist 102 Hist of Civ II (Sec 2)	Hist 101 Hist of Civ I (Sec 3) Hist 104 Hist of US & Pa II (Sec 2) Hist 104 Hist of US & Pa II (Sec 3) Hist 357 Modern France	1 Hist 102 Hist of Civ II (Sec 1) 1 Hist 104 Hist of US & Pa II (Sec 1) 2 Hist 102 Hist of Civ II					
<b>Home Economics</b>	1 HE 111 Meal Mgt 1 PSN 402 Nutri & Comm Health 1 HE 358 Food Svc Equip and Layout	HE 112 Clothing Const HE 414 Home Mgt (REs) (to be arranged) HE 313 Quant Food Svc Mgt	HE 412 Nursery School	HE 314 Textiles	HE 217 Home Planning & Furn HE 424 The Family	1 HE 211 Advanced Foods 1 HE 415 Meth in Tchg Gen & Voc Home Ec 2 HE 417 Tailoring				
<b>KEITH SCHOOL</b>										
Observation and Participation										
<b>Learning Resources</b>	1 LRes 301 Audio-Visual 2 LRes 301 Audio-Visual	LRes 301 Audio-Visual (Sec 1)	LRes 301 Audio-Visual (Sec 2)	LRes 301 Audio-Visual (Sec 3)	LRes 301 Audio-Visual (Sec 4)	1 LRes 301 Audio-Visual 2 LRes 301 Audio-Visual				
<b>Mathematics</b>	1 Math 101 Found of Math 1 El 313 Tchg Math in Elem Schoo 1 Math 455 Math for Sr HI Teachers 1 Ed 451 Tch Math in Sec Schools 2 Math 160 Numeration Theory I 2 Math 362 Prob & Stat 2 Math 351 Theo of Numbers	Math 157 Anal Geom & Cal I-4 Cr July 1 - July 26 1st & 3rd Per Math 257 Anal Geom & Cal II-4 Cr July 29 - Aug 23 1st & 3rd Per Math 257 Anal Geom & Cal II-4 Cr July 1 - July 26 1st & 3rd Per Math 357 Anal Geom & Cal III-4 Cr July 29 - Aug 23 1st & 3rd Per Math 371 Linear Alg	Math 160 Num Theory I Math 355 Found of Geom Math 250 Num Theory II Math 152 Alg & Trig 2nd & 4th Per 6 Credits	Math 361 Diff Equa Math 157 (Cont'd from 1st Per) Math 257 (Cont'd from 1st Per) Math 257 (Cont'd from 1st Per) Math 357 (Cont'd from 1st Per)	Math 101 Found of Math Math 366 Comp Math I Math 452 Elem School Math 152 (I Credit) (Cont'd from 2nd Per)	Math 101 Found of Math 1 El 313 Tchg Math in Elem School 1 Math 253 Theo of Equa 1 Math 375 Intro to Mod Math 2 Math 160 Num Theory I 2 Math 257 Anal Geom & Cal II (fr Main) July 29 - Aug. 23 2 Math 357 Anal Geom & Cal III (fr Main) July 29 - Aug. 23 2 Math 454 Math for Jr HI Teachers (not for undergrad)				

<b>Music</b> 1 Mus 101 Intro to Music 2 Mus 303 Music Hist III 2 El 211 Mus for El Gr	Mus 101 Intro to Music Mus 302 Music Hist II Mus 111 Sight-Singing Mus 113 Ear-Training I Mus 115 Theory I	(2 cr) (1 cr) (3 cr)	El 211 Mus for El Gr	1 Mus 101 Intro to Music 1 Phil 120 Intro to Phil
<b>Philosophy</b> 1 Phil 120 Intro to Phil	Phil 221 Logic Phil 222 Ethics			
<b>Physics</b> 1 Sci 105 Phys Sci I 4 credits—Meets 6 days per week—June 7 to June 29 incl.	Phys 111 Physics I (Sec 1—July 1 to July 26—4 credits) Phys 111 Physics I (Sec 2—July 1 to July 26—4 credits) Phys 112 Physics II (Sec 1—July 29 to Aug 23—4 credits) Phys 112 Physics II (Sec 2—July 29 to Aug 23—4 credits) Phys 498 Prob in Physics Sci 105 Phys Sci I (Sec 1—July 1 to July 26—4 credits) Sci 105 Phys Sci I (Sec 2—July 1 to July 26—4 credits)			
<b>Political Science</b> 1 PolS 111 Amer Cit (Sec 1) 2 PolS 111 Amer Cit (Sec 2) 2 PolS 353 Amer Pol Parties	PolS 111 Amer Cit (Sec 1) PolS 357 Inter Rel	PolS 351 Legis Process PolS 111 Amer Cit (Sec 2) PolS 358 Cont Pol Prob	PolS 111 Amer Cit (Sec 4) PolS 375 Readings in Pol Thought	1 PolS 111 Amer Cit (Sec 1) 2 PolS 111 Amer Cit (Sec 2) 2 PolS 359 Amer Const Law
<b>Psychology</b> 1 Psy 201 Gen Psy (Sec 1) 1 Psy 352 Mental Hygiene 2 Psy 201 Gen Psy (Sec 2)	Psy 353 Child Psy Psy 452 Social Psy Psy 201 Gen Psy (Sec 1)	Psy 201 Gen Psy (Sec 2) Psy 401 Abnormal Psy Psy 352 Mental Hygiene	Psy 355 Adol Psy Psy 201 Gen Psy (Sec 3)	1 Psy 352 Mental Hygiene 2 Psy 201 Gen Psy
<b>Public School Nurse</b> 1 Ed Psy 302 Hist & Phil of Amer Ed 1 Ed Psy 302 Educ Psy (Sec 1) 1 PSN 402 Nutri & Comm Health 2 Hist 104 Hist of US & Pa II	LRes 301 Audio-Visual (Sec 1) PolS 111 Amer Cit (Sec 1) SpE 216 Mental Health in Schools	PSN 301 Pub Sch Nursing Psy 352 Mental Hygiene LRes 301 Audio-Visual Eng 201 Lit I	Hist 101 Hist of Civ I (Sec 3) Hist 104 Hist of US & Pa II (Sec 2) Ed 454 Pub Sch Admin LRes 301 Audio-Visual (Sec 3)	Ed Psy 302 Ed Psy (Sec 2) Eng 301 Lit II LRes 301 Audio-Vis (Sec 4)
<b>Special Education</b> 1 Psy 451 Psychology Practicum (10 wk course at Torrance) 1 SpE 220 Intro to Excep Children SpII 311 Speech Reading & Auditory Training	SpE 451 Spec Class Meth for Ment Ret SpE 216 Mental Health in Schools	SpII 322 Speech & Hearing Clinic I—3 credits—by Appointment SpII 353 Speech & Hearing Clinic II—3 credits—by Appointment SpE 421 Student Teaching of the Mentally Retarded—3 credits SpE 320 Psy of the Mentally Ret		1 SpE 220 Intro to Excep Children
<b>Sociology - Anthropology</b> 1 Anth 110 Anthro (Sec 1) 1 Soc 151 Prim of Soc 2 Anth 110 Intro to Anthro (Sec 2) 2 Soc 331 Cont Soc Prob	Anth 110 Intro to Anthro Soc 151 Prim of Soc	Anth 110 Intro to Anthro Soc 331 Cont Soc Prob	Anth 110 Intro to Anthro Soc 335 Soc Stratification	1 Anth 110 Intro to Anthro 2 Anth 110 Intro to Anthro 2 Soc 151 Prim of Soc

Classes in Pre and Post Sessions will be scheduled as follows: Classes with the numeral "1" before them will meet from 8:00 to 9:30 A.M. and from 11:00 to 12:30 P.M. Those with the numeral "2" before them will meet from 9:30 to 11:00 A.M. and from 12:30 to 2:00 P.M. All classes are 3 credits unless otherwise indicated.

**Ed 456 Issues and Trends in Education** 3 cr.

The purpose of this course is to survey the basic issues and problems confronting public schools, followed by an examination of innovations, trends, and the new approach in the American schools.

**Ed 457 Secondary School Curriculum** 3 cr.

This course will study the social diagnosis for curriculum development, curriculum principles and procedures, patterns of organization, and curriculum issues.

**EDUCATIONAL PSYCHOLOGY DEPARTMENT**

Edward D. Shaffer, Acting Chairman

**Ed Psy 263 Developmental Reading** 3 cr.

This course, planned especially for the teacher of secondary students, will assist the participating student to understand the developmental reading process. The study will include such areas as objectives, background knowledge and understandings of the reading process, an overview of the elementary program, the pre-adolescent and the adolescent and their needs in reading, finding and providing for instructional needs, and special problems. Specific helps, experiences, techniques, and materials will be considered.

**Psy 302 Educational Psychology** 3 cr.

A course designed to promote a better understanding of the principles of psychology that govern human behavior, with particular emphasis on their relation to the learning process, the learning situation, and the learner himself. The significance of evaluation, individual variation, group dynamics, and child growth and development will be stressed throughout the course. Prerequisite: General Psychology.

**Ed Psy 372 Psychology of Childhood Education** 3 cr.

This course is designed to emphasize the relationship which physical, social, emotional and intellectual development have on the theory and practice of childhood and pre-adolescent education. Prerequisites: Psy 201 or Ed Psy 302.

**Ed Psy 373 Adolescent Psychology (for teachers)** 3 cr.

A study of the significant characteristics and behavior of adolescents with emphasis on developing an understanding of the relationship these factors have for educational and social problems which occur during this period. Prerequisites: Psy 201 or Ed Psy 302.

**Ed Psy 376 Study of Problem Behavior** 3 cr.

This course explores the emotional and social aspects of behavior problems encountered in classroom situations. The assumption that behavior is learned and purposeful forms a basis for study in the course. Prerequisites: Psy 201 or Ed Psy 302.

**Ed Psy 377 Educational Tests and Measurements** 3 cr.

Prerequisite: Psy 201 or Ed Psy 302.

A course which emphasizes an understanding of the various evaluation instruments with attention being focused on standardized tests. The use and interpretation of information and test results are studied in relation to educational problems which occur in the classroom. The teacher's role in the selection, administration, and interpretation of group tests is emphasized. The course satisfies post-graduate certification requirements and serves as an elective for undergraduate students of teacher education.

**Ed Psy 378 Seminar in Problems of Learning** 3 cr.

This course is intended to help teachers who deal with learning problems in the several basic skill and subject areas in a typical school setting. The course will attempt to develop a rationale for working with children who have learning problems. Emphasis will be placed on actual application of techniques discussed and developed in class.

**ELEMENTARY EDUCATION DEPARTMENT**

P. David Lott, Department Chairman

**REQUIRED COURSES****Psy 215 Child Development** 3 cr.

This course is designed to enable the teacher to understand and help children. A survey of human development from conception through early adolescence is made in terms of basic scientific data. Aspects of growth and behavior are presented through research, discussion, observation and audio-visual techniques.

**El 221 Children's Literature** 3 cr.

In this course the students acquire a wide acquaintance with children's literature, old and new. Poetry selections, annotated stories, and bibliographies will be assembled. Ways and means to develop, stimulate, and guide children's reading of literature are presented. Principles and techniques of successful story-telling are studied and practiced.

**El 222 Teaching of Reading****3 cr.**

This course is given before the first student teaching experience. Emphasis is placed upon methods and materials used in the developmental reading program. Its objective is to provide the student with a general background of knowledge and techniques for teaching children in the elementary school to read. Students are introduced to the experience, textbook, and individualized reading approaches to the teaching of reading.

**El 411 Teaching of Social Studies****3 cr.**

This course gives an overview of social studies in the elementary school. It includes study of objectives, trends, areas of content, patterns and principles of organization. Emphasis is placed on unification of subject matter and on implication of research in child development for content and methods.

Students will have experience in preparing an individual resource unit and in planning, participating in, and evaluating social studies in class.

**El 413 Teaching Language Arts****3 cr.**

This course is designed to give the elementary student a knowledge of the latest techniques, methods and materials in the language arts area. Research and trends are studied. The fields of handwriting, spelling, and oral and written communication, and vocabulary development are included.

**ELECTIVES OR FOR PERMANENT CERTIFICATION****Ed 356 Guidance in Elementary Schools****3 cr.**

This course is designed to give the student an initial understanding of the guidance of young children. Study and discussion center around the child himself—his characteristics, needs, problems, motives, and relations with others—and around the techniques and procedures for identifying, studying, and giving help to children in respect to their facets of personality.

**Ed 461 Workshop in Elementary Teaching****3 cr.**

Designed for in-service teachers and those returning teachers who are working with the elementary school child, this course provides for reorientation and investigation of the subject matter, materials, methods and procedures currently used in the elementary classroom. Emphasis will be placed upon observation of methods and procedures used in the Keith School; examination of materials; practice in the selection, organization and preparation of subject matter in unit and lesson plans; and construction of teaching aids useful in the participant's own classroom.



**El 351 Creative Activities in the Elementary School** 3 cr.

This course is planned to provide the student with a wide range of creative experience in the subjects taught in the elementary school. Emphasis is placed upon how to help children develop their abilities to express themselves creatively.

**El 352 Diagnostic and Remedial Reading** 3 cr.

This course is planned for in-service teachers and students who have done their student teaching. It deals with methods and materials which help teachers to increase the reading abilities of children who are retarded in reading. Attention is given to recent research findings in the areas of readiness; word recognition, including phonics; comprehension; evaluation and textbook selection.

**El 451 Teaching of Reading in the Primary Grades** 3 cr.

This course is concerned with the teaching of developmental reading, consistent with child growth, in the primary grades.

Methods and techniques for readiness, word perception, comprehension, work-study skills, independent reading in both group and individualized approaches will be studied.

Consideration will be given to the nature of reading, significant research in the field, the curriculum, selection of materials and the use of formal and informal tests.

**El 452 Social Studies in the Primary Grades** 3 cr.

With El 411, Teaching of Social Studies, as a prerequisite, this course will include a more detailed examination of content, objectives, and resource materials for social studies in kindergarten through third grade. Research problems will be examined and representative units developed.

**El 461 Organization of the Elementary School and Its Curriculum** 3 cr.

A study of the organization of the elementary school from the standpoint of curriculum design and development. The role of the teacher will also be examined as it relates to the evaluation, improvement, and development of the elementary school curriculum. Course is especially designed for those who have completed student teaching or are postgraduates.

**El 462 Innovations in Elementary Education** 3 cr.

A study of innovations which influence and direct the educational objectives of the modern elementary school and its organization. Particular attention will be given to those educational innovations dealing with curriculum, school organization, and materials of instruction. Course is especially designed for those who have completed student teaching or are postgraduates.

## ENGLISH DEPARTMENT

James R. Green, Department Chairman

### REQUIRED FOR GENERAL EDUCATION

**Eng 101 English I** **5 cr.**

This course is designed to develop skills in the major uses of language through studies in literature, general semantics, the structure of English, and a review of the mechanics of written and oral composition. The student is trained to read and listen perceptively and critically, and to write and speak effectively—especially in those areas which relate to his own observation and personal experience.

**Eng 102 English II** **5 cr.**

This course continues to refine and intensify those skills developed in English I, provides additional study and practice in critical and argumentative exposition, and gives instruction and practice in library research and the writing of the research paper. Prerequisite: English I.

**Eng 201 Literature I** **3 cr.**

Selected lyric poems, short stories, novels, and plays from the literature of the Western World are read and examined critically with a view to learning how to enjoy masterpieces of literature. English I and II are prerequisites of this course, which should ordinarily be taken in the sophomore year.

**Eng 301 Literature II** **3 cr.**

This course, which should be taken during the junior year, follows the general pattern of Literature I, but the selections chosen have a greater philosophical content and present a greater challenge to the student. Prerequisite: Eng 201 Literature I.

### ENGLISH ELECTIVES

**Eng 211 Classical Literature** **3 cr.**

A course for English majors that replaces Introduction to Literature. The masterpieces studied range from those of ancient Greece to 19th century Europe. English literature and American literature are excluded.

**Eng 212 American Literature to 1865** **3 cr.**

This course provides a general survey of major American writers from colonial times through the Civil War.

**Eng 214 Shakespeare** **3 cr.**

Shakespeare's development as a poetic dramatist is studied against the background of the Elizabethan stage; the audience,

textual problems, language, imagery and philosophy are examined. A few plays are read in detail and others are assigned for rapid reading. Phonograph recordings of complete plays, and of scenes and speeches by professional actors are used.

**Eng 219 The Age of Milton** 3 cr.

This course includes a brief reading of the later meta-physical poets and cavalier poets with concentration on the major poems of John Milton. Some attention is given to the religious and political conflicts of the time as they are reflected in both prose and poetry.

**Eng 221 Journalistic Writing** 3 cr.

This course places special emphasis upon the writing of the news story, the column, the feature, and the editorial. Some attention is given to college and school publications and to make-up and editorial policy.

**Eng 222 Advanced Composition** 3 cr.

This course primarily seeks to improve writing style, particularly in the more utilitarian forms such as the magazine article and the personal essay. Opportunity is offered also for developing creative ability in the more imaginative types such as the short story, the one-act play, and poetry. The student is expected to develop artistic sensibility in handling and judging language and literary forms.

**Eng 224 The Metaphysical Poets** 3 cr.

The primary objective of this course is to promote a critical understanding of the work of the Metaphysical Poets from Donne to Marvell. Some attention will also be paid to the cultural milieu which gave rise to the **genre**; i.e., poetic archetypes and the rise of British empiricism.

**Eng 232 Oral Reading** 3 cr.

Study and practice is given in the fundamentals of oral reading, beginning with the nature and function of the speech mechanism, speech production, and pronunciation with attention to both phonetic and phonemic analysis.

**Eng 238 The Nature of Drama** 3 cr.

A study of selected plays of various styles and periods to gain greater understanding and appreciation of the art of drama.

**Eng 241 The English Novel** 3 cr.

Representative novels are read to trace the rise and development of the English novel from its beginnings to the present day.

**Eng 243 Contemporary Short Fiction****3 cr.**

In this course attention is given to the form, the structure, and the art of the modern short story, British, American, and Continental.

**Eng 244 Poetry and Its Forms****3 cr.**

This course offers a study in the appreciation of poetry, with special attention to the technique of the poet and the structure of poetry.

**Eng 246 American Literature Since 1865****3 cr.**

This course provides a study of major American writers from the Civil War to the present.

**Eng 251 History of the English Language****3 cr.**

The historical development of the English language is studied as a basis for a better understanding of modern American English. An examination is made of changes in sound, vocabulary enrichment from various sources, and changes in syntax and usage. The course is open to students from all departments and curricula, but is especially recommended to Elementary majors and English majors.

**Eng 271 Modern American Fiction****3 cr.**

Major American writers of fiction since 1900 will be considered in this course. This course may be used as an elective in the humanities area of the general program.

**Eng 356 The English Essayists****3 cr.**

The major essayists are seen both as members of and influence on the society of their time. Emphasis is given to a study of the individual styles of the writers by employing a close textual analysis.

**Eng 363 The Structure of English****3 cr.**

Training is given in the analysis of modern English by the methods and materials of structural linguistics. An elementary study of phonology is used as the basis for describing the patterns of the statement, substitution within patterns, the word classes, inflection, and structure words, as well as varieties of modern American English usage. This course is a prerequisite to Ed 451, Teaching English and Speech and Reading in the Secondary Schools.

**Eng 451 Teaching of English, Speech and****Reading in the Secondary Schools****3 cr.**

This course introduces the student to the current professional practices in the teaching of English and Speech in high school.

Background for competence in teaching is provided through (1) study of professional literature, (2) individual reports, (3) writing of unit plans and lesson plans, (4) observing teaching in high school classes, (5) participating in class demonstrations. Eng 363 is a prerequisite to this course and this course is in turn a prerequisite to student teaching in English.

### **Drama Workshop**

In the pre-session three credits and in the main session from three to six credits may be earned for the following courses by combining participation in the Summer Theater program with class instruction:

- Eng 231 Dramatic Arts
- Eng 371 Play Production
- Eng 377 Creative Dramatics
- Eng 378 Costume and Makeup
- Eng 379 Stagecraft and Scenic Design

## **FOREIGN LANGUAGE DEPARTMENT**

**Herbert E. Isar, Chairman**

<b>Fr. 151-152 French I and II</b>	<b>3 cr. each</b>
<b>Ger 151-152 German I and II</b>	<b>3 cr. each</b>
<b>Sp 151-152 Spanish I and II</b>	<b>3 cr. each</b>

This elementary sequence is designed primarily for the general student. Its basic objective is maximum reading ability; further but secondary objectives are accuracy of pronunciation, some ability to understand the spoken word and in self-expression, and an introduction to the motives and currents of the background cultures.

### **Ling 421 Language and Society** **3 cr.**

The work of this course is designed to inform the student about the salient facts of language and its fundamental role in the development and continuity of society and culture. Some points considered are: language families and their characteristics, factors of linguistic changes and development, reciprocal influences of culture and language, linguistic borrowing, language and religion, and systems of writing.

## **THE PENNSYLVANIA - VALLADOLID STUDY IN SPAIN PROGRAM 1969**

For details consult the 1969 brochure, obtainable from the Department of Foreign Languages.

## GEOGRAPHY DEPARTMENT

Thomas G. Gault, Department Chairman

### Geog 101 World Geography 3 cr.

The purpose of this course is to develop a knowledge and appreciation of patterns of the natural environment throughout the world, such as patterns of soil, climate, vegetation—and of man's adjustment to them, with special emphasis on man's economic and cultural responses. This course is prerequisite to all other courses in the department.

### Geog 149 Economic Geography 3 cr.

This course develops an understanding of world patterns of producing and consuming regions, population distributions, world trade routes, and related natural factors. It also deals with the applications of these understandings to the solution of national and international economic problems.

### Geog 154 Cultural Geography 3 cr.

(May be taken in lieu of World Geography)

This course includes study of the geographical aspects of population, settlement, ethnogeography, and the cultural landscape. It considers the relationships of various ethnic and cultural groups to the natural environment. The student is acquainted with the tools, philosophy, and literature of cultural geography and related disciplines.

### Geog 251 Geography of Anglo-America 3 cr.

A regional study of the United States and Canada concerned with the investigation of man's adjustment to his environment as influenced by the physical factors of climate, vegetation, relief, soils, and natural resources as well as recognition of cultural adjustments to the geographic environment, and the interrelations between the two countries and the rest of the world. (This course may not be taken if the student has completed Geog 112).

### Geog 271 Geography of South America 3 cr.

A regional study is made of South America with special emphasis placed on regional differences and similarities. South America relations with other areas, especially the United States, are stressed. The unique problems of South America, with special attention to tropical land use are considered.

### Geog 456 Introduction to Urban/Regional Planning II 3 cr.

Prerequisite: Geog 455. This is an extension of Geog 455 and considers the development of Urban and/or Regional Plans.

**Geog 462 Field Techniques in Geography** 1-3 cr.

Prerequisite: 12 hours in Geography or consent of instructor.

This course proposes to give experience in the study of land utilization and use of geographic tools and techniques of the field.

**Geog 491 Aerospace Science** 3 cr.

This workshop will be conducted as a seminar with a number of visiting aerospace authorities. It treats of the atmosphere and space environment; history of flight and flight problems; satellites and space probes; manned orbital and space exploration projects; propulsion; communication, and other systems. Problems of teaching and bibliography at the various elementary and secondary levels will be considered. An indoctrination flight in a small craft and field trips to air age installations and projects fortify learning.

**HEALTH AND PHYSICAL EDUCATION DEPARTMENT**

John Chellman, Dean

**HPe 101 Health** 2 cr.

This course includes the study of individual and community health problems with the primary emphasis placed on the improvement of the student's own health.

**HPe 102 Physical Education I** 1 cr.

This course provides a program of carry-over sports and activities which improve general physical fitness and develop usable physical skills. Students in this course will be required to pass a proficiency examination in swimming.

**HPe 203 Physical Education II** 1 cr.

This course provides an opportunity to develop additional sport skills not covered in P.E. I. The student is also taught game strategy, advanced skills and new techniques used in various activities.

**HPe 204 First Aid** 1 cr.

This course provides the student with an understanding of the practices and skills used for the proper care of all types of injuries.

The American Red Cross Standard and Advanced Certification cards are issued upon successful completion of the course.

**EI 314 Teaching of Health and Physical Education** 3 cr.

This course includes games, stunts, rhythms, relays, tumbling, dancing and skills suitable for the elementary school child. The teaching of health in the elementary school is emphasized. Methods, materials and lesson planning are a part of the course.

**CERTIFICATION IN THE FIELD OF EDUCATION  
FOR SAFE LIVING**

**HPe 251 Introduction to Safety Education 3 cr.**

The Introduction to Safety Education course is one which will be valuable to teachers of all grade levels and all departments. It deals with the recognition of unsafe conditions and practices, and the methods by which they may be eliminated or minimized, in an accident prevention program. The study includes home, school, occupational and public safety.

**HPe 252 Driver Education 3 cr.**

Driver Education is a combination of class instruction in traffic safety and driver training in actual behind-the-wheel practice in a dual-control car. It prepares the student to teach driver education in a high school. The prerequisites for the course are: the student should have driving ability above the average and evidence of holding a driver's license, plus at least two years of driving experience without having a major accident for which the driver is responsible.

**HPe 253 Methods and Materials in Safety Education  
in the Secondary Schools 3 cr.**

Methods and Materials in Safety Education in the Secondary Schools is a course that emphasizes the use of correlating and integrating safety with many different subjects and school activities, teaching as a separate subject and centering safety education around pupil organizations and special projects.

**HPe 254 Organization and Administration of  
Safety Education 3 cr.**

The Organization and Administration of Safety Education deals with the basic principles of organizing, administering and supervising safety education procedures in schools. A large part of the course is devoted to methods of teaching pupil safety activities in school and community.

**HPe 255 Psychology of Accident Prevention 3 cr.**

The application of the principles of psychology to the development of safe behavior in the school, home, community, highway, and industry. The causes of accidents in relation to attitudes, habits, and behavior.

**HISTORY DEPARTMENT**

Clyde C. Gelbach, Department Chairman

**Hist 101 History of Civilization I 3 cr.**

A survey course presenting in integrated form the origin and development of man's major political, social, economic, religious,



and intellectual institutions from historical times to 1600 A.D. Although part of the course is devoted to Oriental and Near Eastern civilizations, the major emphasis remains on Greek, Roman, Medieval, and early Modern European civilizations. Through comparison an effort is made to point up both the similarity and the uniqueness of these civilizations. Through the presentation of detail and conflicting historical interpretations an effort is made to create an appreciation of the depth and complexity of man's past.

**Hist 102 History of Civilization II** 3 cr.

This course deals with man's development from 1600 to the present. Among the topics discussed are: The Commercial Revolution; the Age of Reason; the Age of Revolution—political, economic, and social; the rise of constitutional governments; nationalism and the clash of cultures incident to the growth of empire. Considerable attention is given to democracy, capitalism, communism, fascism, and socialism as the major ideologies of the nineteenth and twentieth centuries. The course concludes with an examination of the various formulas for world order proposed or attempted since 1900.

**Hist 103 History of the United States and  
Pennsylvania I** 3 cr.

A course covering the period in American history from the discovery of America to 1865 with emphasis on the history of Pennsylvania. Special attention is given to the colonial foundations of our nation, the emergence of our Federal Union, the rise of an American culture, territorial and economic growth of the United States, the rise of political democracy, social reform, and the controversy over sectionalism and slavery.

**Hist 104 History of the United States and  
Pennsylvania II** 3 cr.

A course in the history of the United States and Pennsylvania from 1865 to the present in which the industrialization of America, urbanization, the rise of organized labor, and the development of a distinctly American culture are stressed. Attention is also given to the political, economic, and social reform movements of this period in our history as well as to the increasing role of the United States in world affairs.

**Hist 357 Modern France** 3 cr.

An investigation of the political, cultural, economic, and social developments since 1815. Lectures, discussions, and papers.

**Hist 363 Diplomatic History of the United States** 3 cr.

This course traces the history of our foreign relations from the American Revolution to the present. Emphasis is placed on those principles and major policies upon which our foreign policies are based.

**Hist 379 History of Russia** 3 cr.

A general survey of Russian history, culture and institutions. Special consideration is given to the study of those historical forces which were formative of the Revolution of 1917. Consideration is also given to post-Revolution Russia.

**Hist 380 History of France** 3 cr.

Prerequisite: History of Civilization II.

An investigation of the political, cultural, economic, and social developments since 1600. Lectures, discussions, papers.

### PROFESSIONAL EDUCATION REQUIREMENT

**Ed 451 Teaching Social Studies in the Secondary Schools** 3 cr.

This course provides an opportunity for the prospective teacher to develop understandings and competencies for teaching social studies. Emphases in the course include: values and goals in social studies, the teaching process, materials and learning activities, evaluation of learning, and planning for classroom teaching. This course is a prerequisite to student teaching in the social studies.

### HOME ECONOMICS DEPARTMENT

Ella M. Bendix, Dean

**HE 111 Meal Management** 3 cr.

Basic principles of meal planning, food selection and preparation are studied as they relate to family meals and good nutrition. Management of time and energy, good work habits, correct use of food budget, food service for various family meals and food storage are integral parts of the course. Demonstrations, laboratory and other teaching techniques provide a variety of experiences.

**HE 112 Clothing I Construction and Fitting** 3 cr.

Principles and problems related to the construction of clothing are studied. Laboratory experiences provide the opportunity to apply these learnings. Selection and use of techniques suitable for the fabric to produce a garment that is recognizably of high quality are emphasized. Efficient methods of construction are employed.

**HE 211 Advanced Foods** 3 cr.

Foods studied and prepared present more advanced problems in cookery and meal service than those of Foods I. Some of these relate to food preservation, freezing of foods, meat and poultry selection and cookery, methods of making breads, cakes and pastry, sugar cookery and frozen desserts. Recent research and improved methods of cookery are considered. Demonstrations and other teaching techniques serve as a preparation for teaching.

**HE 217 Home Planning and Furnishing** 3 cr.

Problems confronting families in finding suitable housing are considered. Community planning, selection or construction of homes, factors affecting cost and quality, legal aspects, plans for convenience, comfort and aesthetic values and maintenance are studied.

**HE 313 Quantity Food Service Management** 3 cr.

Prerequisites: HE 111, HE 211, HE 212

Instruction and fundamental experiences essential to quantity food service are stressed. These experiences include planning, preparing and serving lunches that are nutritionally adequate, attractive and inexpensive. The requirements of the National School Lunch Program are emphasized.

**HE 314 Textiles** 3 cr.

Fibers, fabrics and finishes used in clothing and household textiles are investigated from the standpoint of quality, cost and type of cleanliness care needed. Consumer and care problems in clothing and household textiles are studied in relation to the family's needs, facilities and income. Knowledge of laws governing labeling of fibers, fabrics and clothing are supplied to clothing and household merchandise as sold in stores.

**HE 358 Food Service Equipment and Layout** 3 cr.

Selection and layout of food service equipment in relation to production requirements, materials and usefulness are studied. Field trips permit the investigating of a variety of layouts.

**HE 412 Nursery School** 3 cr.

Participation in the nursery school as a student teacher applying the content of Psychology 215 is the major focus of this course. Student teachers learn techniques of planning for and managing a group of pre-school children.

**HE 417 Tailoring** 3 cr.

Principles of tailoring are applied to the construction of a coat or suit. Efficient methods are emphasized in the selection of ready-made tailored clothing is studied.

**HE 414 Home Management (Residence) 3 cr.**

Students experience decision making in group living. Managerial ability, values, goals, and satisfying human relations are developed as family members care for the baby; shop; plan, prepare and serve attractive, nutritious meals; use and care for equipment and furnishings and in other ways provide for individual and group home needs and social functions.

**HE 415 Methods in Teaching General and Vocational Home Economics 3 cr.**

Methods in teaching home economics provides students with the opportunity to plan curricula in relation to the needs and interests of pupils and their families within the school community.

**HE 424 The Family 3 cr.**

Students will be able to concentrate on and study intensively specific areas of family life. Interpersonal relationships and the family as a group and social institution will be the focus. Group projects and study, panel discussions and conferences will be used in addition to extensive reading of research and other literature.

**KEITH SCHOOL**

**Alvin J. Stuart, Director**

The Keith School provides professional laboratory experiences such as, observation, participation, and student teaching for college students in the elementary department. Keith School classes meet from 9:00 to 12:00 during the main summer school session. Professional laboratory experiences in Keith School may be planned and scheduled with the Director of Professional Laboratory Experiences.

**LEARNING RESOURCES AND MASS MEDIA DEPARTMENT**

**Norman W. Sargent, Department Chairman**

**LRes 301 Audio-Visual Education 3 cr.**

(Professional course required of all students in education)

Prerequisite: General Psychology

A consideration of the needs for sensory techniques and the integration of all learning resources is given, with attention to the psychological processes involved. Through class and laboratory work the student will have an opportunity to become acquainted with materials and equipment and skilled in audio-visual techniques within the teaching field. Activities will include actual production of materials for class use and participation in their use.

**MATHEMATICS DEPARTMENT****Melvin R. Woodard, Chairman****Math 101 Foundations of Mathematics** 3 cr.

This course is designed to familiarize students with some of the ideas underlying the development of mathematics and an elementary treatment of problem solving and decision making. The primary objective is not to develop "computational" skills but to study mathematics in its role as both an art and a science.

Topics to be studied include: numeration and number systems with special emphasis on recognizing patterns and structure; intuitive set theory and applications, including probability and statistics; and informal logic in its relation to mathematics, both in algebra and geometry.

**Math 152 Algebra and Trigonometry** 6 cr.

Number systems and equations; plane trigonometry; inequalities; functions and graphs; complex numbers, theory of equations; mathematical induction; the binomial theorem. Prerequisite: Satisfactory score on the Placement Examination.

**Math 157 Analytic Geometry and Calculus I** 4 cr.

Prerequisites: Algebra and Trigonometry or permission of the department.

Analytic Geometry of the straight line; circle; and the conics; polynomials and their graphs; elements of differential and integral calculus with applications involving polynomials.

**Math 160 Numeration Theory I** 3 cr.

This course is designed for those students whose major is elementary education and is one of the first two courses in the concentration of mathematics.

Among the topics included in this course are: Development and the structure of numeration systems: properties of the rational reals, their subsets and the operations defined on them; tests for divisibility; modular arithmetic; primes; factorization; fundamental theorem of arithmetic; introduction to mathematics systems.

**Math 250 Numeration Theory II** 3 cr.

Prerequisite: Math 160

This course is a continuation of Math 160 and will include such topics as: Rules of divisibility; properties of and operations with real numbers; finite and infinite sets; Venn diagrams; order

relations; modular and clock arithmetic; introduction to algebra and geometry; informal look at probability and topology; truth tables; implications; slope of a line; distance formula; conic sections.

**Math 253 Theory of Equations** 3 cr.

Prerequisites: Analytic Geometry and Calculus I.

Among the topics considered are algebraic equations; determination of roots; algebraic solutions of cubic and quartic equations; systems of equations; determinants; matrices, and symmetric functions.

**Math 257 Analytic Geometry and Calculus II** 4 cr.

Prerequisites: Analytic Geometry and Calculus I.

Differential and integral calculus of algebraic and transcendental functions with applications to the physical sciences.

**EL 313 Teaching Mathematics in the Elementary School** 3 cr.

In this course emphasis will be given to the place of arithmetic in the elementary school and to the recent changes in curriculum and method; to techniques for developing concepts and processes; to recent research in the field of arithmetic; and to books and materials helpful to prospective teachers. Observation of master teachers at work will be planned. Prerequisite: Math 160 and 250.

**Math 351 Theory of Numbers** 3 cr.

Prerequisite: Consent of Instructor.

A study of the foundation of number theory with special attention being given to such topics as repeating decimals and congruences; number theoretic functions; diophantine equations, continued fractions.

**Math 355 Foundations of Geometry I** 3 cr.

Prerequisite: Math 375.

The initial approach in this course is a synthetic treatment of Euclidean Geometry using Hilbert's axioms. Projective geometry is studied in some detail in order to acquaint the student with non-Euclidean, projective, and other non-Euclidean geometries are introduced.

**Math 357 Analytic Geometry and Calculus III** 4 cr.

Prerequisite: Analytic Geometry and Calculus II.

This course will extend the background of the student in elementary calculus and will consider infinite series, Taylor's and Maclaurin's expansions, partial differentiation, multiple integrals, and an introduction to ordinary differential equations.

**Math 361 Differential Equations**

3 cr.

Prerequisite: Math 357.

In this first course in differential equations the emphasis is placed on techniques of solution and elementary physical applications. A thorough study is made of differential equations classified as order one—degree and nonhomogeneous. Solution techniques involving the differential operator, the Laplace transform and infinite series are introduced.

**Math 362 Probability and Statistics**

3 cr.

This course is intended as a beginning course in statistics with emphasis on applications rather than on theoretical developments of principles and formulas. Calculus is not a prerequisite. The areas of study in this course are: frequency distributions, measures of central tendency and variation, elementary probability, sampling, estimation, testing of hypotheses, linear correlation and regression, and multiple and partial correlation.

**Math 366 Computer Math I**

3 cr.

Language rules of the FORTRAN compiler system are presented. FORTRAN is used for writing digital computer programs which are compiled and executed on the College computer. Satisfactory completion of at least three programs is required.

**Math 371 Linear Algebra**

3 cr.

Topics considered in this course are vector spaces, linear transformations, and matrices. The emphasis is on the theory for arbitrary finite dimensional spaces. Applications to Euclidean  $n$ -space are considered briefly.

**Math 375 Introduction to Modern Mathematics**

3 cr.

This course is a preparatory course to the courses Abstract and Linear Algebra, Advanced Calculus, and Geometry.

An introduction to formal logic sets the stage for a thorough study of the development of the complex number system from a postulational viewpoint, starting with the natural numbers, through the integers, rationals, reals and finally the complex numbers. The concepts of group, ring, integral domain and field are basic to the development.

**Ed 451 Teaching Mathematics in the Secondary Schools**

3 cr.

The major objective of the course is to prepare teachers of mathematics for the modern secondary schools. The principal activities in the class are the preparation and presentation of lessons

on concepts from the secondary schools mathematics courses; study of the principles of teaching and learning; observations; study of current mathematics curricula; and learning to use curriculum materials effectively.

**Math 452 Seminar in Mathematics** **1 cr.**

During the semester preceding student teaching each person majoring in mathematics is expected to perform an independent study of mathematics beyond the scope of the courses he has taken. The area for investigation will be selected by the student, subject to the approval of the instructor. Upon completion of the study, the student is expected to give an oral presentation of his findings to the other members of the group.

**Math 454 Mathematics for Junior High School Teachers** **3 cr.**

Various elementary systems and concepts of modern mathematics will be investigated. The course will not be concerned with teaching methods but will include topics which may be taught in the junior high. Topics included are: the mathematics of reasoning, other arithmetics, sets and functions, elementary number theory, and finite mathematical systems.

**Math 455 Mathematics for Senior High School Teachers** **3 cr.**

The topics to be covered in this course will be introductory in nature. Topics include: numeration theory, elementary mathematical systems, logic, and set theory. Since the course is to be designed to meet the specific needs of the particular class involved, some of the topics will be determined by the class.

### MILITARY SCIENCE DEPARTMENT

Charles B. Stevenson, Chairman

**MS 101 Military Science I** **2 cr.**

Instruction in Organization of the Army and ROTC; Individual Weapons and Marksmanship; and Leadership.

### MUSIC DEPARTMENT

William C. Willett, Chairman of Department

**Mus 101 Introduction to Music** **3 cr.**

The course "Introduction to Music" presumes no technical background, but does utilize as fully as possible the varied musical experiences of each individual to help him extend his interest as far as possible. Various concerts of college organizations, cultural



life events, and visiting artist concerts are required to augment the listening experiences of the student.

**Mus 302 History of Music II** 3 cr.

Beginning with the Late Renaissance, History of Music II will trace the development of music through the late 18th century, including the work of Haydn and Mozart. Considerable analytic listening is required, both from records and campus performances.

**Mus 303 History of Music III** 3 cr.

Starting with the 19th Century and Beethoven, History of Music III is the historical study of the development of music through to the present. Analytic listening required through all available sources.

**El 211 Music for the Elementary Grades** 3 cr.

The content of this required course for all Elementary Students includes the following: review of music fundamentals, keyboard knowledge, the teacher's voice, care and development of the child voice, problems of the non-singer, rhythmic activities, listening activities, creative activities, rote to note process, special days, and lesson planning. To get practical application of class activities, students will be assigned observations in the Laboratory School. Emphasis is placed on the primary grades.

### MUSIC THEORY

**Mus 111 Sight Singing I** 2 cr.

Sight Singing I is designed to develop the student's skill at interpreting written music by the use of his own voice, regardless of his major performing medium. Areas of study include: all major and minor scales; treble, alto, tenor, and bass clefs; all diatonic intervals; duple and triple meter with rhythmic dictation drills; phrase-wise thinking; and elementary form analysis. The sol-fa syllables with movable do are used.

**Mus 113 Ear Training I** 1 cr.

Ear Training I involves dictation skills and notation in the following areas: primary harmonies in all inversions, and melodic dictation with implied and actual harmonies.

**Mus 115 Theory I** 3 cr.

Harmony I includes the playing and writing of primary harmonies in all inversions, using the chorale style of harmonization; and the study of phrase and period through the analysis and study of melodies to be harmonized.

**PHILOSOPHY DEPARTMENT****Robert M. Hermann, Chairman****Phil 120 Introduction to Philosophy 3 cr.**

A survey of basic issues and fundamental concepts. Designed for the beginning student, this course aims at the development of a critical attitude toward the major "isms" of philosophy. Emphasis is placed upon an understanding of problems in the field, rather than upon individual thinkers.

**Phil 221 Logic 3 cr.**

The Art of Reasoning—The Science of Critical Thinking. Designed for the general student, this course aims at developing an awareness of the need for precision in meaning, validity in formal reasoning patterns, and rigor in determining "truth."

**Phil 222 Ethics 3 cr.**

An introduction to significant ethical theory. Selected writings both ancient and modern are examined and discussed critically. The student is encouraged not only to develop a consistent ethical formulation of his own, but to make application of each view studied to murrent moral problems.

**PHYSICS DEPARTMENT****Richard E. Berry, Chairman****Phys 111-112 Physics I and II 8 cr.**

A two-semester course constituting the usual first year's work in general college physics. In Physics I, mechanics, heat and sound are studied; in Physics II, electricity and magnetism, light, and atomic and nuclear physics. A working knowledge of elementary algebra is essential. Three hours lecture and three hours laboratory per week.

**Phys 498 Problems in Physics 1-4 cr.**

Under this title there is offered an opportunity for advanced students to study, in vigorous mathematical detail, special topics in Physics such as Fourier Series, Vibrating String Theory, Vector Analysis and others which the student or staff member might propose. The amount and quality of the work done would determine the number of credit hours earned. In general the idea is to have the student deal in a more sophisticated manner with topics which receive elementary treatment in the regular courses.

**GENERAL EDUCATION COURSES****Sci 105 Physical Science I** 4 cr.

A study of the physical world, focusing on the fundamental concepts of matter and energy. Emphasis is placed on what science is, how scientific knowledge is acquired, and the emergence of the more fundamental physical laws. Topics include those often associated with astronomy, chemistry, geology and physics. Three hours lecture and two hours laboratory.

**Sci 106 Physical Science II** 4 cr.

A continuation of Physical Science I. Three hours lecture and two hours laboratory.

**POLITICAL SCIENCE DEPARTMENT**

**Richard Heiges, Chairman**

**PolS 111 American Citizenship** 3 cr.

This course is concerned with our Federal and State Governments. Emphasis is placed upon the constitutional basis of government, organization and structure of government, division of governmental powers. Federal and State relations, public finance, organization and role of political parties, and the place of the citizen in government. In the study of the functions and services of government, attention is given such problems as foreign policy and world relations, economic and social security, and the promotion of the general welfare.

**PolS 351 Legislative Process** 3 cr.

Organization and procedure of the United States Congress, with special reference to the theory and practice of representative government, lobbying, and bicameralism.

**PolS 353 American Political Parties** 3 cr.

This course will trace historically the development of American Political Parties. Major emphasis will be placed on modern party developments since 1900.

**PolS 356 State and Local Government** 3 cr.

Institutions and processes of state and local governments, with special attention to Pennsylvania. Emphasis is placed on the nature of federalism, state constitutions, parties and interest groups, the legislature, office of governor, the judiciary, and role of state and local government in an urban society.

**PolS 357 International Relations** 3 cr.

Consideration is given to the fundamentals of the state system sovereignty and nationalism; the elements of national

power; the diplomatic, legal, economic, organizational and military relations of states; procedures for the settlement of disputes; power-security problems and patterns of power to cope with the problem. The course attempts to provide a conceptual framework on the basis of which international events can be sorted out and made meaningful.

**PolS 358 Contemporary Political Problems 3 cr.**

This course emphasizes the dynamics of government as they are evidenced in public opinion, pressure groups, political parties and our governmental institutions. Attention is also directed toward the political-economic nexus within American society.

**PolS 359 American Constitutional Law 3 cr.**

A study of the development of constitutional law through leading Supreme Court decisions. Topics treated include the scope of federal powers, civil liberties and civil rights, the nature of judicial review, federal-state relations. Attention is given to the continuing controversy over the role of the Supreme Court in American society.

**PolS 424 Modern Political Thought**

The development of political thought since the mid-18th century (Rousseau). Classic Liberalism of the Philosophic Radicals. Conservative thought since Burke. The nature and origin of modern irrational ideologies such as fascism and national socialism. Socialist thought (Marxist and non-Marxist). Contemporary collectivist liberalism.

**PSYCHOLOGY DEPARTMENT**

Stanley W. Lore, Chairman

**Psy 201 General Psychology 3 cr.**

A comprehensive study of the origins, motives and modifications of human behavior with emphasis on the scientific approach in analyzing behavior patterns; the importance of man's biological inheritance, and the significance of social environment in influencing human living. Attention is given to an appreciation of simpler techniques in psychological experimentation.

**Psy 352 Mental Hygiene 3 cr.**

This course is designed for aiding the development of strong hygienic personalities; mental hygiene as related to the child, adolescent, and teacher in the home, classroom, and social situation; maladjustments and mental diseases with emphasis on prevention.

**Psy 353 Child Psychology** 3 cr.

This course aims to study the developmental changes in intellectual, emotional, motor, and social behavior from early infancy to adolescence. Outstanding experimental, clinical and theoretical contributions that show the important practical relationships between self-understanding, understanding of others, and the process of helping children to discover themselves will be given special attention. Prerequisite: General Psychology.

**Psy 355 Adolescent Psychology** 3 cr.

This course is a study of the adolescent, his growth and development, behavior, personality, and problems. All areas in his experience will be considered, the physical, mental, emotional, social, and spiritual. Attention will be given to attitudes, relationships, and all other facets of his living. Some attention will be given to the early development of the child, the pre-adolescent, the young adult, and the adolescent in other cultures. Study and discussions will include the exception as well as the normal individual. Prerequisite: General Psychology.

**Psy 452 Social Psychology** 3 cr.

A study of the interaction of people, either in pairs or in groups. Examination of the effects of their respective personalities, motives, attitudes and cultural backgrounds upon each other. Also a study of leadership, role playing, group conformity and group effectiveness. Prerequisite: General Psychology.

**Psy 461 Abnormal Psychology** 3 cr.

Prerequisite: Psy 201

The systematic study of the full range of psychological functioning from the basic and accepted normal to the most extreme aberrations. Etiology, dynamics, symptomatology, treatment, and prognosis of the psychoneuroses, psychoses, psychomatic disorders, character disorders, and disorders of intelligence constitute the major emphases of the course.

**PUBLIC SCHOOL NURSING**

George A. W. Stouffer, Jr., Director

The college offers a degree program in Public School Nursing. This requires 60 semester hours beyond graduation from an approved School of Nursing. Much of the required work is in general and professional education and may be taken in the summer. Consult pages to for various course descriptions in these fields.

**PSN 301 Public School Nursing (2 wks.) 2 cr.**

The general purpose of this course is to provide the public school nurse an opportunity to understand and appreciate the historical development, the fundamental principles and the present trends in public health nursing in a democratic and industrial society. Emphasis will be placed on the integration of public health nursing in our schools.

**PSN 402 Nutrition and Community Health 3 cr.**

A study is made of the nutritional problems of family members from infant to aged people of the community. Emphasis is placed on recognizing good nutritional status and ways of guiding families toward better nutrition. School lunch is also emphasized. The course is designed to help the public school nurse and teachers.

**SOCIOLOGY-ANTHROPOLOGY DEPARTMENT**

Ralph R. Ireland, Chairman

**Anth 110 Introduction to Anthropology 3 cr.**

Anthropology attempts to bring the student a comprehensive view of man's biological and cultural heritage. His similarities and variations, both physiological and social, are studied as a continuity, from the earliest evidence supplied by archeology, to detailed studies of primitive societies in our own times. The predictability of future change in ethnological phenomena is also considered.

**Soc 151 Principles of Sociology 3 cr.**

Sociology is the science of the structure and functioning of human groups. Taking culture concepts and social institutions as its basic materials, it explores the content, methodology, and interrelationship of those studies seeking to record and explain man's social behavior in the modern world. Problems of social change, and the attendant efforts to direct and control such change, are integral parts of the course.

**Soc 331 Contemporary Social Problems 3 cr.**

A course which explores pressing social issues and the solutions offered for their alleviation. Within its scope fall race and minority discrimination, juvenile delinquency, crime, family, disintegration, personal maladjustment, population shifts, the role of culture, the nature of social change, and the possibility of social planning. Problems are defined and solutions are explored in the light of historical, political, economic, social, and anthropological data. Prerequisite: Principles of Sociology.

**Soc 335 Social Stratification** 3 cr.

Prerequisite: Principles of Sociology.

A study of social status patterns and social mobility. Determinants of social class divisions and the consequences of class distinction for individuals and society will be discussed.

**DEPARTMENT OF SPECIAL EDUCATION  
AND CLINICAL SERVICES**

Morton Morris, Department Chairman

**MENTALLY RETARDED****SpE 220 Introduction to Exceptional Children** 3 cr.

This survey course deals with the different types of exceptional children. This course is designed to aid the student in identifying those children who deviate from the average in areas of physical, mental, emotional, and educational development. This will enable the teacher to identify for referral or to plan for those pupils who need special class placement or a special instructional program with the regular classroom.

**SpH 311 Speech Reading and Auditory Training** 3 cr.

Prerequisite: SpH 222 Introduction to Audiology

The basic principles of understanding language by observing the speaker's lips, and facial expressions, and developing residual hearing to the maximum. Educational and rehabilitative considerations for hard-of-hearing children and adults. Observation of hard-of-hearing.

**SpE 320 Psychology of Mentally Retarded Children** 3 cr.

Prerequisite: SpE 220 Introduction to Exceptional Children.

This course will point up the importance of viewing retarded children and youth as living, adjusting individuals who respond to many kinds of personal and social situations and who are capable of far more than usually imagined. The importance is stressed of the ways in which the retarded develop, learn, and adapt in various home, school, community, or sheltered settings.

**SpE 421 Student Teaching of the Mentally Retarded** 3 cr.

Students will be required both to observe and to participate in the teaching of mentally retarded students. Ordinarily this course will be offered in conjunction with Ed 451.

**SpE 451 Special Class Methods for the Mentally Retarded** 3 cr.

The chief emphasis of this course will be upon practical and workable methods and materials which can be used effectively with slow-learning children. It is intended to be offered in con-

junction with ED 421 as well as to serve as a course in specific techniques which the classroom teacher will find to be valuable in actual classroom teaching of the mentally retarded.

### CLINICAL SERVICES

**SpH 322 Speech and Hearing Clinic I** **3 cr.**

This course offers the student elementary practicum in clinical methods of diagnosis and therapy. Practice is given in the use of clinical instruments, lesson planning, case reports and histories, and treatment in both individual and group classes. Prerequisites: All required background courses in Groups 1-2.

**SpH 353 Speech and Hearing Clinic II** **3 cr.**

This course provides advanced practicum with children presenting more severe speech and hearing problems. The student is expected to assume greater responsibility and self-direction, even though he will be supervised. Prerequisites: Speech and Hearing Clinic I; Speech Pathology or Stuttering.

**Psy 451 Psychology Practicum** **3 cr.**

In the summer of 1968 Indiana University of Pennsylvania will offer for the fifteenth year an unusual work-study practicum in psychology for twenty selected students at the Torrance State Hospital. Those chosen will work a 40-hour week as attendants at the Torrance State Hospital concurrent with a planned lecture and demonstration course taught by members of the hospital staff. They will earn full pay as hospital attendants in addition to earning three credits in psychology. If interested write immediately to: Mrs. Marion M. Geisel, Director of the Psychological Clinic, Indiana University of Pennsylvania, Indiana, Pennsylvania. Prerequisite: 6 hours of psychology.



