



Summer Sessions Bulletin

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SUMMER SESSIONS

(UNDERGRADUATE)

Pre-Session June 5 to June 23

Main Session June 26 to August 4

Post-Session August 7 to August 25

1967



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1967

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Classes Begin	Monday, June 5
Session Ends	Friday, June 23

Main Session

Classes Begin	Monday, June 26
Session Ends	Friday, August 4

Post-Session

Classes Begin	Monday, August 7
Session Ends	Friday, August 25

First Semester 1967-1968

Registration	September 13
Classes Begin	September 14

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HELEN LOUISE WARREN B.S., M.Ed., Indiana University of Pennsylvania	English
ROBERT O. WARREN B.S., State College, Indiana, Pennsylvania; M.Litt., University of Pittsburgh	Registrar
CHARLES E. WEBER B.A., Montclair State College; M.A., Ed.D., Columbia University	Geography
KATHERINE WELDY B.S., Kutztown State College; M.A., Middlebury College, Vermont	English
HERBERT G. WENGER B.S., Milwaukee State College, Milwaukee, Wisconsin; M.S., University of Wisconsin	Elementary Education
HALLEY O. WILLISON, JR. B.S., Clarion State Teachers College; M.Litt., University of Pittsburgh	Mathematics
JAMES C. WILSON B.S., Clarion State College; M.Ed., Duquesne University; Ed.D., University of Pittsburgh	Counseling and Guidance
T. KENNETH WILSON B.A., University of Buffalo	English
ANNA T. WINK B.A., Gettysburg; M.S., Pennsylvania State University	Director Computer Center, Mathematics
DAVID C. WINSLOW A.B., University of Oklahoma; A.M., University of Nebraska; Ph.D., Clark University	Geography
DALE W. WOOMER B.S., M.Ed., Penn State University	Business Education
JOHN A. YACKUBOSKEY B.S., North Georgia College; M.A., Emory University	History
HAROLD YOUCIS B.M.E., Drake University; M.S., Ithaca College; Ed.D., Indiana University	Chairman, Secondary Education
MAURICE M. ZACUR B.S., Indiana University of Pennsylvania; M.Ed., University of Pittsburgh	Geography
CYRIL J. ZENISEK B.S., M.S., Ohio State University; Ph.D., Ohio State University	Biology

SUMMER SESSIONS 1967

There will be three sessions in the summer of 1967, two of three weeks each and one of six weeks. The pre-session will begin on Monday, June 5, and extend through Friday, June 23. The main summer session starts June 26 and extends through August 4. The post-session of three weeks begins August 7 and continues through August 25.

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 mathematics and science.

ADVANCED COURSE RESERVATION

At the close of this catalog will be found a form 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 form at the close of the catalog will serve to assure you a place in the Summer School. Whether you can get the specific course you desire will depend upon the conditions indicated in the foregoing paragraph. Receipt of this form will not be acknowledged by mail.

Please return the form to Dr. R. W. Cordier, Dean of Academic Affairs, by May 1, 1967. No other requirement is made for admission to our summer school.

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 (1966-1967) and who desire to be considered for full-time enrollment in the first semester (1967-1968) must fill out a readmission form requesting acceptance by the deadline date April 1, 1967.

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.

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 1967 will be held on Sunday afternoon, August 20. The responsibility for graduation rests upon students. All students who plan to graduate in the summer of 1967 should write or call at the office of the Dean of the School of Education or Liberal Arts to secure application forms for graduation. These forms properly filled in must be returned to the office of the Dean of the School of Education or Liberal Arts not later than May 31, 1967.

EXPENSES AND FEES

(Subject to Change)

CONTINGENT FEE

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

Special Curriculum Fees in addition to above:

	Pre-session	Main Session	Post-session
Art	\$3.00	\$ 6.00	\$3.00
Business	2.00	4.00	2.00
Home Economics	4.50	9.00	4.50
Music	7.50	15.00	7.50

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 5 for the pre-session, June 26 for the regular session, and August 7 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.

Out-of-State Fees. Students who are not residents of Pennsylvania will pay a basic fee (contingent fee) of \$20.00 per semester hour with a minimum charge of \$60.00 for each 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 5, regular session, Monday, June 26, and post-session, Monday, August 7, 1967.

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, 1967.

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 5.

Registration for Main Session—8:30 a.m. - 3:30 p.m., Monday, June 26.

Registration for Post-session — 8:30 a.m. - 3:30 p.m., Monday, August 7.

The dormitories will be open for students Sunday, June 4, 25, August 5 at 3:00 p.m. Women students will be housed in John Sutton and Thomas Sutton Halls. Men students will be housed in Gordon Hall.

At the time of registration students should:

1. See the Dean of Women or Dean of Men and get room assignments.
2. Get programs made out in Student Union.
3. See the Registrar in Room 119 Clark Hall and pay fees.
4. Secure books at the Book Store as soon as texts are specifically designated for courses taken.

Schools and Major Departments

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.

Home Economics—Home Economics Education, School Food Services.

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.

Continuing and Non-Resident Education — Student Nurse, Special Business.

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 Secretary 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 1967 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 "Squaring the Circle," "The Private Ear and The Public Eye," "Never Too Late," "A Streetcar Named Desire," "Mary, Mary," and "Cindy."

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 high-

lights of the summer program. Last summer's series included:

- Llords International Concerttheater
- Norman Nadel—On the Aisle
- Janet de Coux—Sculpture Today
- Warren Rogers—Crisis Year in Southeast Asia
- Jackie Washington—one of America's great folk singers
- Dr. Murray Banks—What to do Until the Psychiatrist Comes
- Erico Verissimo—The Art of Fiction

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 1967 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 1966, 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.

THE SCHOOL OF ARTS AND SCIENCES

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:

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

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

GENERAL EDUCATION PROGRAM

I. Humanities	19-22 cr.
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	Modern American Fiction
Art History I or II	Music History I
Ethics	Philosophy
History of Civ. I	The English Bible as Literature
Logic	Basics of Religions Thoughts and Practices

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

II. Natural Science	11-14 cr.
Laboratory Science	8
Foundations of Math I	3

General Electives:

Astronomy	Geology
Computer Mathematics	Statistics
**Foundations of Mathematics II	

III. Social Science	15 cr.
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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

IV. ROTC or Physical Education	4 cr.
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°Required of all Liberal Art Students. Optional for other students.

°°Required of all Elementary Education majors.

°°°Required of School of Education students.

THE SCHOOL OF FINE ARTS

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

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

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 courses in Psychology and Professional Education are offered for those who are interested in increasing their professional competence.

THE SCHOOL OF HOME ECONOMICS

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

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, Business, English, Elementary, Mathematics, Counselor Education, Social Science, Music, Geography, Biology, Chemistry, Physics, Elementary Science, Science, Special Education, and Speech & Hearing. A program leading to the Master of Science Degree is available in Mathematics and Geography.

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 ten 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 12 - 17, 1967.

Casavant Marching Band Workshop

1 cr. or non-credit

The Casavant Marching Band Workshop is comprised of a series of workshops extending from June 19 to June 30. 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 22, 23, 24

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 19, 20, 21

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—June 26 - 30

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, 1967

The Social Science Department will sponsor a study tour of Europe between June 19 - July 26, 1967. 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

July 24 - August 4

For the tenth 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 114 Design in Volume and Space 3 cr.

This course provides the student with a wide variety of experiences in three-dimensional design using various materials. Form, volume, and space are considered in different materials and in their relationship to sculpture, architecture, and the crafts. The emphasis is on experimentation with materials and ideals.

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.

Art 315 Pottery and Ceramics 3 cr.

This is a creative experience directed toward the teaching of craftsmanship in ceramic art. Basic procedures of building forms by hand and wheel are performed in this course. Students also work with decoration and learn the fundamentals of kiln operation and glazing. (May be taken for advanced elective credit Art 452).

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 training, therapy, and education of students who are mentally retarded or in need of special help.

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).

Art 452 Advanced Ceramics 3 cr.

The basic practices of processing, decoration, forming, and firing of ceramic objects will be pursued in a more specific way on a studio basis. This will include beginning glaze computation.

Art 457 Advanced Graphic Art 3 cr.

The student elects to study the art of the print in greater depth.

ART COURSES FOR PERMANENT CERTIFICATION

Courses listed herewith have been especially structured for in-service art teachers who seek credit toward permanent certification under the twenty-four hour requirement.

Art 462 Advanced Drawing 3 cr.

This course is an extension of the drawing experience to include figures and natural forms in various media.

Art 463 The Arts, An Approach to Appreciation 3 cr.

This course would enable teachers to plan guides for a course in The Arts. In addition to a study of what would constitute appreciation there will be a survey of The Arts in particular areas. (Recent regulations passed by the State Council of Education will require a course in Art Appreciation in certain Senior High Schools.)

Art 464 Guides to Elementary Art Curriculum 3 cr.

This course is designed to give serious consideration, in depth, to the art curriculum of the elementary school. An outcome will be a curriculum guide for the teacher in his or her particular situation. A growing art curriculum in any school can be improved by review and study.

Art 465 Guides to Secondary Art Curriculum 3 cr.

This course is designed to give serious consideration, in depth, to the art curriculum of the secondary school. An outcome will be a curriculum guide for the teacher in his or her particular situation. A growing art curriculum in any school can be improved by review and study.

EI 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.

EI 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.

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 252 Field Zoology 3 cr.

Field Zoology is a course in the study of animals in the field; the collection of such forms, and the preparation and utilization of them for class instruction. Students are required to make collections for their future use in teaching situations. Field trips are required.

**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.

EI 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 under-

standing 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 221 Introduction to Accounting (Repeat Only) 3 cr.

This is the first course in this area and a prerequisite. Its purpose is to introduce the students to the keeping of records for the professional man as well as a mercantile enterprise involving the single proprietor. Emphasis is placed upon the distinction between keeping records on the cash basis as compared to the accrual basis of bookkeeping. Consideration is given to special journals, the combined-cash journal, auxiliary records, and business papers.

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 Correspondence 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 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.

BUSINESS MANAGEMENT DEPARTMENT

Charles L. Cooper, Department Chairman

BM 201 Personnel Management

3 cr.

Prerequisite: Bus 101

The fundamental principles involved in maintaining harmonious human relations at all levels of a business enterprise form the nucleus of this course. The basic elements involved in planning, organization, directing, and controlling personnel will be developed. Major topics included are the selection, training, evaluation, motivation, and remuneration of employees.

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 321 Quantitative Analysis

4 cr.

Prerequisites: Chem 111 and 112. Lectures, three hours per week; laboratory four hours per day.

The theory and practice of quantitative analysis includes gravimetric and volumetric analysis. Special emphasis is placed on perfecting the student's laboratory technique and application of general chemical knowledge through problem solving.

Chem 322 Instrumental Analysis 4 cr.

Prerequisite: Chem 321.

This course is designed to instruct the student in Modern Instrumental Methods of Chemical Analysis. The student will learn the theory behind the instrument, the principles of operation, the interpretation of the data obtained, and the limitations of the methods. Two hours of lecture and six hours of laboratory.

Chem 151-152 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 Biological Chemistry 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.

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

PRE-SESSION June 5 - June 24		Begins June 26 8:15 to 9:40 A.M.		MAIN SESSION June 26 9:50 to 11:15 A.M.		Ends August 4 August 4 1:00 to 2:25 P.M.		POST SESSION August 7 to August 25	
Art		Art 112 Comp & Fig Drawing HE 213 Prin of Design Art 315 Pottery & Ceramics Art 452 Adv Ceramics		Art 464 Guides to El Art Curr El 214 Tchg Art Elem Grades El 213 Art for El Gr		Art 465 Guides to Sec Art Curr Art 114 Design Vol and Space		Art 462 Adv Drawing Art 101 Intro to Art	
1 Art 115 Art History I (ABC students) 1 Art 101 Intro to Art 2 El 213 Art Elem Grades 2 El 214 Tchg Art El Gr		1 Art 330 Art for Ment Ret 1 Art 463 The Arts--An Approach to Appreciation 2 Art 116 Art History II 2 Art 412 Graphic Art 2 Art 101 Intro to Art 2 Art 457 Adv Graph. Art		1 Bio 103 Gen'l Biology I (Sec 1)* 1 Bio 104 Gen'l Biology II** (Sec 1) 1 Bio 361 Tchg Elem Sci. Home Ec 2 Bio 361 Microbiology (Sec 1) *Meets June 26 to July 21 4 credits **Meets July 24 to Aug. 18 4 credits		1 Bio 104 Gen'l Biology II (Sec 1-4 cr)* 1 Bio 311 Env'l Biology (4 cr) 2 Bio 104 Gen'l Biology II (Sec 2-4 cr)* *Meets 6 days per week--4 credits--Aug. 5 to Aug. 26 Inc.		1 Chem 102 Home Econ Chem II (3 cr) 1 Chem 306 New Approach to Tchg High School Chem II	
Biology		1 Bio 103 Gen'l Biology I (Sec 1)* 2 Bio 103 Gen'l Biology I (Sec 2)* 1 El 312 Tchg Elem Sci. 1 Bio 361 Microbiology (Sec 1) 2 Bio 361 Microbiology (Sec 2) *Meets 6 days per week--4 credits--June 3 to June 24 Inc.		1 Bio 103 Gen'l Biology I* (Sec 2) Bio 104 Gen'l Biology II** (Sec 2) Bio 151 Physiology for Home Ec *Meets June 26 to July 21 4 credits **Meets July 24 to Aug. 18 4 credits		Bio 252 Field Zoology		1 Econ 341 Ind Relations 2 Econ 347 Hist of Econ Thought	
Business Education		1 Bus 311 Meth of Tchg Bus Crses* 1 Bus 352 Corp Acct'g* *6 weeks--June 5 to July 14		Bus 321 Bus Courtes Bus 312 Eval Tech (Only 17-Aug. 25) Bus 132 Inter Typing Bus 271 Adv Typing Bus 433 Retail Store Prac. Supervis (6 cr)		Bus 212 Bus Math 11 Bus 353 Cost Acct'g (July 17-Aug. 25) Bus 311 Cont. from Pre-Session Bus 251 Inter. Acct'g (Repeats Only)		Bus 312 Continued from Main Session Bus 353 Continued from Main Session	
Business Management		1 Bus 352 Cont from Pre Session Bus 131 Prin of Typing							
Business Management		1 Bus 201 Personnel Management							
Chemistry		1 Chem 101 Home Econ Chem I 2 Chem 351 Biochemistry 1 Chem 305 New Approach to Tchg High Sch Chem I		Chem 111 Gen'l Chem I (Sec 2--June 26 to July 21--4 credits) Chem 111 Gen'l Chem I (Sec 1--July 24 to Aug. 18--4 credits) Chem 112 Gen'l Chem II (Sec 2--July 24 to Aug. 18--4 credits) Chem 321 Quantitative Analysis (June 26 to July 14--4 credits) Chem 322 Instrumental Analysis (July 17 to Aug. 4--4 credits)					
Economics		1 Econ 121 Prin of Econ I 2 Econ 345 Money & Bnkg 1 Econ 349 Comp Econ Systems		Econ 241 Cont Econ Prob					

Education-Psychology 1 Psy 201 Gen'l Psy 1 Psy 302 Educ Psy-Sec 1 1 Ed 305 Eval Meth 2 Psy 201 Gen'l Psy-Sec 2 2 Psy 302 Educ Psy-Sec 2	Psy 201 Gen'l Psy (Sec 1) Ed 305 Eval Meth- Sec 1 Psy 302 Ed Psy (Sec 1) Psy 452 Social Psy	Psy 355 Adol Psy Psy 352 Mental Hyg Ed 263 Dev'l Reading Psy 353 Child Psy	Psy 302 Ed Psy (Sec 2) Psy 201 Gen'l Psy (Sec 2)	Psy 402 Seminar in Prob of Learning	1 Psy 201 Gen'l Psy 1 Ed 305 Eval Meth 2 Psy 302 Educ Psy
Elementary 1 Ed 356 Guid in Elem School 2 El 413 Tech of Lang Arts	El 222 Tech of Reading (Sec 1) El 221 Child Lit (Sec 1) El 451 Tech of Reading in Prim Gra	El 221 Child Lit (Sec 1) Psy 215 Child Dev'l El 352 Diag & Rem Red	El 351 Great Act in Elem School Sec Studies El 452 Great Act in Prim Grades	El 222 Tech of Reading (Sec 1) El 411 Tech of Soc Studies	1 El 351 Great Act in the Elem Grades
English 1 Eng 232 Oral Reading 1 Eng 221 Journalistic Wr 1 Eng 211 Class Lit 1 Eng 201 Lit I 2 Eng 238 Nature of Drama 2 Eng 212 Amer Lit I 2 Eng 301 Lit II	Eng 101 English I (Section 1) Eng 101 English I (Section 2) Eng 101 English I (Section 3) Eng 101 English I (Section 4) Eng 101 English I (Section 5) Eng 101 English I (Section 6) Eng 102 English II (Section 1) Eng 102 English II (Section 2) Eng 102 English II (Section 3) Eng 102 English II (Section 4)	Eng 201 Lit I (Sec 1) Ed 451 Tech of Eng Read Eng 353 Restoration Lit Eng 242 Amer Novel Eng 212 Amer Lit to 1865	Eng 232 Adv Comp Eng 232 Oral Reading Eng 301 Lit II (Sec 2) Eng 251 Hist of Eng Lang	Eng 244 Poetry & Its Forms Eng 214 Shakespears Eng 201 Lit I (Sec 2)	1 Eng 271 Mod Amer Fic 1 Eng 201 Lit I 2 Eng 301 Lit II 2 Eng 243 Cont Short Fic
Drama Workshop Eng 231 Dramatic Arts Eng 371 Play Production Eng 377 Creative Drama & Story Telling Eng 378 Costume & Makeup Eng 379 Stagecraft	Eng 231 English I (Section 1-5 credits) 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 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 101 English I (Section 1) Eng 101 English I (Section 2) Eng 101 English I (Section 3) Eng 101 English I (Section 4) Eng 101 English I (Section 5) Eng 101 English I (Section 6)	Eng 101 English I (Section 1) Eng 101 English I (Section 2) Eng 101 English I (Section 3) Eng 101 English I (Section 4) Eng 101 English I (Section 5) Eng 101 English I (Section 6)	Eng 244 Poetry & Its Forms Eng 214 Shakespears Eng 201 Lit I (Sec 2)	1 Eng 271 Mod Amer Fic 1 Eng 201 Lit I 2 Eng 301 Lit II 2 Eng 243 Cont Short Fic
Foreign Language 1 Sp 151 Spanish I 2 Fr 151 French I	Ling 421 Lang & Society	Sp 151 Spanish I Fr 152 French II	Ger 151 German I	Sp 152 Spanish II	1 Sp 152 Spanish II 2 Ger 152 German II
Geography 1 Geo 101 World Geog (Sec 1) 1 Geo 101 World Geog (Sec 2) 2 Geo 112 Geog U.S. & Pa 1 Geo 491 Acriosp Worksh	Geo 255 Cartography Geo 101 World Geog (Sec 1)	Geo 455 Intro to Urban Regional Plan I Geo 112 Geog U.S. & Pa	Geo 101 World Geog (Sec 2) Geo 149 Econ Geog	Geo 154 Cultural Geog	1 Geo 101 World Geog (Sec 1) 2 Geo 101 World Geog (Sec 2) 2 Geo 112 Geog U.S. & Pa

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.

Music	<p>Mus 303 Hist of Mus III</p> <p>Phil 120 Intro to Phil</p>	<p>Mus 115 Harmony I (3 cr)</p> <p>Mus 113 Ear Training I (1 cr)</p> <p>Mus 111 Sight Singing I (2 cr)</p> <p>El 211 Mus for Elem Gr</p>	<p>Mus 101 Intro to Music</p>	<p>1 Mus 101 Intro to Music</p>
Philosophy	<p>Phil 120 Intro to Phil</p>	<p>Phil 221 Logic</p> <p>Phil 222 Ethics</p>	<p>Phil 120 Intro to Phil</p>	<p>1 Phil 120 Intro to Phil</p>
Physics	<p>Phys 111 Physics I (Sec 2)</p> <p>Phys 111 Physics I (Sec 1)</p> <p>Phys 112 Physics II (Sec 1)</p> <p>Phys 112 Physics II (Sec 2)</p> <p>Phys 458 Prob in Physics</p> <p>Phys 452 Selct Exper</p>	<p>June 26 to July 21 4 credits)</p> <p>June 26 to July 21 4 credits)</p> <p>July 24 to Aug. 19 4 credits)</p> <p>July 24 to Aug. 19 4 credits)</p> <p>(Section 1 June 26 to July 21 4 credits)</p> <p>(Section 2 June 26 to July 21 4 credits)</p> <p>(Section 1 July 24 to Aug. 19 4 credits)</p>	<p>Phys 361 Electronics (Lab 2:30 - 5:30)</p>	<p>1 Sci 106 Phys Sci II* (Sec 1 & 2 cr)</p> <p>1 Phys 111 Phys I* 4 cr (Sec 1)</p>
Political Science	<p>PolS 111 Amer Cit (Sec 1)</p> <p>PolS 354 Metropol Prob</p> <p>PolS 111 Amer Cit (Sec 2)</p>	<p>PolS 424 Mod Pol Thought</p> <p>PolS 111 Amer Cit (Sec 2)</p>	<p>PolS 358 Cont Pol Prob</p> <p>PolS 111 Amer Cit (Sec 3)</p> <p>PolS 351 Legis Proc</p>	<p>1 PolS 111 Amer Cit (Sec 4)</p> <p>2 PolS 353 Amer Pol Parties</p> <p>2 PolS 111 Amer Cit (Sec 2)</p>
Public School Nurse	<p>El 302 Hist & Phil of Amer Education</p> <p>Psy 302 Educ Psychology</p> <p>P.S.N. 402 Nutrition & Health</p> <p>Hist 104 Hist of U.S. & Pa 11</p>	<p>Pub. Sch. Nursing</p> <p>Audio Vis</p> <p>Amer Cit</p> <p>Ment Health in Schools</p>	<p>Eng 301 Lit 11</p> <p>Psy 302 Ed Psy (Sec 1)</p>	<p>P.S.N. 402 Family Casework</p> <p>Eng 201 Lit 1</p>
Special Education	<p>Psy 451 Psych Practicum (3 cr) 10 Wk</p> <p>Cse at Torrance</p> <p>SpE 220 Intro to Excep Child</p>	<p>Spec Class Meth for Ment Ret</p>	<p>SpE 322 Speech & Hearing</p> <p>SpE 353 Speech & Hearing</p> <p>SpE 421 Student Teaching of the Mentally Retarded</p> <p>SpE 420 Psy of the Ment Ret</p>	<p>1 SpE 220 Intro to Excep Child</p>
Secondary Education	<p>Ed 302 Hist & Phil Amer Educ</p> <p>Ed 136 Issues & Trend in Educ</p>	<p>Ed 454 Pub School Admin</p>	<p>Ed 455 Comp Educ</p> <p>Ed 157 Sec School Cur</p>	<p>1 SpE 220 Intro to Excep Child</p>
Sociology & Anthropology	<p>Anth 109 Intro to Anthro (Sec 1)</p> <p>Soc 351 Cont Soc Prob</p>	<p>Anth 110 Intro to Anthro (Sec 2)</p>	<p>Soc 151 Prim of Soc</p>	<p>Anth 110 Intro to Anthro (Sec 1)</p> <p>Anth 110 Intro to Anthro (Sec 2)</p> <p>Anth 313 Pre History Soc 151 Prim of Soc</p>
Classes in Pre and Post Sessions will be scheduled as follows. Classes with the numeral "1" before them will meet from 8:00-11:00 A.M. and from 11:00 to 1:30 P.M. Those with the numeral "2" before them will meet from 9:30 to 11:00 A.M. and from 1:30 to 3:00 P.M. All classes are 3 credits unless otherwise indicated.				

problems of labor, international trade, world poverty, competing economic systems.

Econ 341 Industrial Relations **3 cr.**

Prerequisite: Principles of Economics.

A study of the problems involved in the relations between the workers and management in a dynamic industrial society, and the economic aspects of the solutions of these problems proposed or attempted by labor, management, and the government.

Econ 345 Money and Banking **3 cr.**

Prerequisite: Principles of Economics.

A study of the history and present state of the American monetary and banking system. The Federal Reserve System, instruments of credit control, proposals for monetary reform and the relationship between money and economic stability will be covered in the course.

Econ 347 History of Economic Thought **3 cr.**

Prerequisite: Principles of Economics.

Presenting a study of the fundamental contributions which outstanding economists have made to economic ideas.

Econ 349 Comparative Economic Systems **3 cr.**

Prerequisite: Principles of Economics.

Basic economic issues in capitalism, socialism, communism, and fascism, and their relationships to political and social problems.

EDUCATION AND PSYCHOLOGY DEPARTMENT

Stanley W. Lore, Department 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 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.

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 402 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.

Ed 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.

Ed 305 Evaluation 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 being 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 and development.

ELEMENTARY EDUCATION DEPARTMENT

P. David Lott, Department Chairman

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.

EI 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.

EI 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.

EI 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.

EI 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. The Pennsylvania Course of Study for this area is studied. 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. A variety of learning experiences and materials will be used and evaluated.

EI 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.

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.

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.

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 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 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 242 The American Novel **3 cr.**

Novels, ranging from Hawthorne to contemporary pieces of fiction, are read to trace the rise and development of the American novel.

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 Modern American Literature **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 353 Restoration Literature 3 cr.

Selected readings from English literature between 1660 and 1710 with emphasis on the drama.

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

Edward W. Bieghler, Department Chairman

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

This elementary terminal 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 as to 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 1967

For details consult the 1967 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 112 Geography of the United States and Pennsylvania 3 cr.

This course gives a comprehensive treatment of the adjustments of the peoples of Pennsylvania and the United States to the

physical factors—structure, relief, climate, soil, and natural resources—which mold their destiny. The interrelationships between the United States and Pennsylvania and the rest of the world are stressed. Prerequisite: World Geography.

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 255 Cartography 3 cr.

Cartography gives an understanding in the compilation and use of maps, and develops an ability to construct economic and geographic maps. The use of aerial photographs is briefly treated.

Geog 455 Introduction to Urban/Regional Planning I 3 cr.

Students are introduced to the field of urban and regional planning, its background, its purposes and methods, and its implementation and ramifications. Work in the local office of planning familiarizes the student with practical planning.

Geog 491 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.

HEALTH AND PHYSICAL EDUCATION DEPARTMENT**John Chellman, Department Chairman****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.

El 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 372 History of Europe: 1600-1815 **3 cr.**

This course puts emphasis upon political, diplomatic, economic, and intellectual developments from 1600 to 1815. Coming in for special consideration are the development and operation of the European state system, the Enlightenment, the extension of the parliamentary institutions in England, and the French Revolution and Napoleon.

Hist 377 History of Latin America 3 cr.

The course surveys the development of the Latin American countries from the period of discovery to the present. The economic, social, political and cultural areas receive special attention first as domestic problems, then as they are related to the various political units involved. The influence of European and American relations as they are reflected in local changes are given consideration.

Hist 378 History of England 3 cr.

This course traces the growth of the people and institutions of England from the conquest by the Anglo-Saxons to the present. The emphasis is placed on the development of these factors that give rise to the struggle and events that culminated in the establishment of the democratic principles and organizations in both the British Commonwealth and elsewhere in the modern world.

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.

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

A. Carolyn Newsom, Department Chairman

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.

Evaluation of standards and progress is continuous. Three nurses' uniforms and comfortable white shoes are needed.

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 212 Nutrition 3 cr.

Positive relation of food to health is emphasized. Signs of good and poor nutrition, functions of nutrients, interdependence of dietary essentials, and nutritive essentials of an optimum diet are studied. Nutritional requirements in infancy, childhood, adult life, pregnancy, lactation, the aged, common nutritional deficiency and disorders are emphasized. Adequate diets for the different economic levels, and racial and national backgrounds are considered. Food additives and food fads and fallacies are also studied. Laboratory work provides for further understanding of these problems. Organic Chemistry is a prerequisite or parallels nutrition.

HE 312 Housing 2 cr.

Housing problems of families and communities are considered. Architectural designs, floor plans, processes in construction, factors affecting cost and quality, financing, legal aspects, heating, ventilation, lighting, plumbing and maintenance are studied. Convenience, comfort and aesthetic values are emphasized. Extensive reading, projects and field trips are expected.

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 and Care 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 354 Clothing V (Special Problems in Clothing) 3 cr.

Prerequisite. Consent of the instructor.

Clothing problems met by individuals, families and teachers are solved. This course provides excellent opportunities for students who have had too little experience in construction and other clothing problems.

HE 356 Food Service Administration 3 cr.

Prerequisites: Psy 201, HE 313

Emphasis is given to organization and administration of food service, personnel policies and training, work simplification and sanitation. Field trips to various types of food service institutions are included.

HE 362 Experimental Foods 3 cr.

Prerequisites: Foods and Organic-Biochemistry.

Experimental Foods is designed as a study of food preparation based upon the scientific method wherein effects of chemical and physical principles are observed. This will be accomplished by investigating problems of a group as well as on an individual basis. Studies on fruits, vegetables, gelatin products, meat, milk, eggs and baked goods will be covered in laboratory preparation. Problems studied in the laboratory will be analyzed and observed objectively with resulting conclusions set forth in written reports.

HE 403 Home and Family Living 3 cr.

Economic competency for the consumer is stressed. Nutritional, housing, home furnishing, household equipment, health, clothing, transportation and operational needs of families are in-

vestigated. Insurance, investment and financing purchases are studied. Information is gained so that each family may derive the greatest benefits and satisfactions within their income and values. This course not only meets the needs of non-majors but provides a review for home economists returning to the profession and up-to-date material in the many areas of Home Economics.

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 421 Pre-School Education (ages 2-5) 4 cr.

Prerequisites: General and Educational Psychology, Child Development and Nursery School.

Actual experience in assisting a master teacher in a nursery school is required. Experience includes observation of and work with children in a variety of situations. Specific children are studied intensively and research is investigated as a basis for understanding child behavior and to help in guidance.

HE 422 Early Childhood Education (Equipment and Materials) 2 cr.

Prerequisites: Child Development and General Psychology.

Materials, stories, activities, situations and equipment that will aid in the physical, social, emotional and intellectual development of pre-school children are studied. Children and variations of behavior are observed as 2, 3 and 4-year-olds react and interact.

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.

HE 454 Adult Homemaking Education 2 cr.

The principles and theory of adult education are studied. The psychology of adults is considered and their needs in the

areas of homemaking investigated. Plans for implementing a broad program are formulated and communities sponsoring such a program used as case studies.

HE 455 Vocational Home Economics Education Workshop
Cooperative Education 3 cr.

The workshop places emphasis upon planning and developing cooperative education programs for home economics wage earning programs in secondary and post high schools. The concept of cooperative education as a teacher-learning process is clarified and evaluated in light of current views of how people learn. Selected cooperative programs in vocational education and their underlying philosophy is examined. Guidelines for planning a cooperative education program are formulated and used in setting up plans for such a program in home economics.

HE 456 Home Economics Workshop—
Occupational Home Economics 3 cr.

This workshop deals with an examination of the need and place of wage-earning education programs in occupations related to home economics education in the high school and post high school. The changing role of women in the labor market and the implications of this change for the total home economics program is studied. Current programs and specific procedures in program development are reviewed and evaluated. Emphasis is placed on the development of home economics employment courses appropriate to selected home economics programs.

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.

Psy 215 Child Development 3 cr.

The physical, emotional, social and intellectual development of the child from conception through early adolescence is considered. Research from psychology, anthropology, medicine, sociology and child development contributes toward a better understanding of normal development and behavior of the child.

KEITH SCHOOL

E. Samuel Hoenstine, 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

Department 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 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.

Math 341 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.

The elements of plane and solid geometry up to and including congruence from the metric point of view, followed by a discussion of the synthetic point of view; historical development; parallelism; similarity; area; volume; substantial experience with at least one other geometry (preferably hyperbolic non-Euclidean geometry). Prerequisites: Analytic Geometry and Calculus II.

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 Ordinary Differential Equations 3 cr.

The topics considered will include linear differential equations of first and higher order, those of first order but not of first degree,

and applications to geometry and the sciences. Prerequisite: Math 257.

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 375 Introduction to Modern Mathematics **3 cr.**

This course is designed to acquaint the prospective teacher with new methods and content in mathematics. A thorough study of the development of the complex number system for a postulational viewpoint, starting with the natural numbers, through the integers, fractions, rationals, irrational, real, and finally the complex numbers, serves as a model of the rigorous methods used in mathematics today. Set theory and its applications in serving to unify topics in high school algebra and geometry are of primary importance. The study of mathematical structures, including that of groups, rings, integral domain, and fields, acquaints the student with the knowledge that there are many algebras and geometries and points out the true nature of a mathematical system. Boolean algebra and arithmetic modular systems serve as examples to illustrate these systems. An attempt is made throughout the course to strengthen but not replace, the traditional mathematics with the new.

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

This course will contain a thorough study of the Curriculum of the junior high school recommended by The Commission on Mathematics, The National Council of Teachers of Mathematics, and The School Mathematics Study Group. The mathematics content of the academic and general courses will be thoroughly reviewed.

Math 455 Mathematics for Senior High School Teachers 3 cr.

This course will contain a thorough study of the Curriculum of the senior high school recommended by The Commission On Mathematics, The National Council of Teachers of Mathematics, and The School Mathematics Study Group. The mathematics content of each of the courses recommended for the senior high school will be reviewed. Particular emphasis will be placed on the senior mathematics courses.

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 101.

Ed 451 Teaching Mathematics and Reading 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.

MUSIC DEPARTMENT

Harold S. Orendorff, 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 Harmony 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, Department 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 current moral problems.

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 38 to 55 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.

PSN 403 Family Case Work 3 cr.

Goals of family life, changes brought by crisis, the attitudes and relation of the family to welfare, approaches and solutions to

family problems and the psychology and inter-personal relations are studied. Readings, problem solving, specific family situations and conferences are used.

PHYSICS DEPARTMENT

Richard E. Berry, Department 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 452 Selected Experiments from Atomic, Nuclear and Modern Physics 1-3 cr.

Prerequisite: Physics 451. The latter may be taken concurrently.

Experiments include electric discharge in gases, atomic spectra, e/m, detection and measurement of radiation and others depending on time and facilities available.

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.

Phys 361 Electronics 3 cr.

Prerequisites: Physics 111 and 112, Math 157.

The fundamentals of vacuum tubes and their applications in circuits are studied. Laboratory 2:30 - 5:30.

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, Acting, Department 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 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 354 Metropolitan Problems 3 cr.

Analyzes the multiplicity of problems facing our metropolitan areas. Contemporary developments such as urban renewal, the shrinking tax base, federal aid to cities, subsidized mass transit, municipal authorities, and political consolidation are examined. Pennsylvania municipalities are contrasted with those of other states.

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.**

Through the decisions of the United State Supreme Court the development of constitutional law is studied. Attention is given to the legal terminology, the history, and the philosophy significant in an understanding of American jurisprudence. Emphasis is given to the influence of legal interpretations on the political, social, and economic life of the nation.

PolS 424 Modern Political Thought**3 cr.**

A study of contemporary and modern political ideologies by stressing ideas and their spokesmen rather than past and present political systems as presented in PolS 355 Comparative Government.

SECONDARY EDUCATION DEPARTMENT**Harold J. Youcis, Department Chairman****Ed 302 History and Philosophy of American Education****3 cr.**

This course is designed to promote a clearer understanding of modern educational practice through a study of historical changes in instructional process 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 judgments about the role of the school in our social culture, the meaning of democracy, the teacher and his profession, and the objectives and methods of the school.

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.

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.

SOCIOLOGY-ANTHROPOLOGY DEPARTMENT

Esko E. Newhill, Department 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 phenomenae is also considered.

Anth 313 Pre History 3 cr.

Prerequisite: Introduction to Anthropology.

Survey of the Old and New World prehistory with emphasis on archaeological method and theory, and on cultural development during the Mesolithic, Neolithic and early Iron Age periods. Experience in analysis of archaeological data will be provided.

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 inter-relationship 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 332 Racial and Cultural Minorities 3 cr.

Prerequisite: Principles of Sociology.

A study of national, racial and religious minorities and divergent heritages in our national life.

Soc 333 Juvenile Delinquency 3 cr.

Principal topics are the cause of delinquency, its forms, consequences, and the methods that may best be used in its prevention. Prerequisite: Principles of Sociology.

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.

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 conjunction 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.

Art 330 Arts and Crafts for Teachers of Special Education and the Mentally Retarded 3 cr.

The materials and processes of arts and crafts are studied for opportunities they offer in training, therapy, and education of students who are mentally retarded, crippled, or need special help for any reason. The feeling of achievement and the good emotional state which come with expression at the level of the individual's ability are examined to show teachers how they may be achieved and used in education.

SPEECH AND HEARING HANDICAPPED

SpH 321 Psychology of Speech and Hearing Handicapped 3 cr.

This course provides study of causative influences on and personality effects of, speech and hearing handicaps. Normal personality development is studied and abnormalities considered. Both the psychological and physiological bases of the speech process are emphasized, and the psychological factors common to the various types of speech problems considered. Means of measuring intelligence and the administration and interpretation of diagnostic tests and procedures are included.

SpH 354 Audiometry for Public School Nurses 3 cr.

This course is designed as an intensive review of the physiology of hearing; the etiologies and classifications of hearing loss; the use of audiometric testing equipment in the schools; interpretation of the audiogram; and the role of the nurse in public health hearing programs.

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 1967 Indiana University of Pennsylvania will offer for the fourteenth 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.







