



Summer Sessions, 1961
STATE COLLEGE, INDIANA, PENNA.

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STATE COLLEGE
INDIANA, PENNSYLVANIA

Summer Sessions

Pre-Session June 5 to June 23

Main Session June 26 to August 4

Post Session August 7 to August 25

1961



This College is Accredited by the
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and Secondary Schools
and
The National Council for Accreditation of
Teachers Education

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COLLEGE CALENDAR
1961

Pre-Session

Classes BeginMonday, June 5
Session EndsFriday, June 23

Main Session

Classes BeginMonday, June 26
Session EndsFriday, August 4

Post-Session

Classes BeginMonday, August 7
Session EndsFriday, August 25

First Semester 1961 - 1962

RegistrationSeptember 6 - 9
(details will be mailed Sept.1)

Classes BeginSeptember 11

ADMINISTRATIVE OFFICERS
Summer Session 1961

Willis E. PrattPresident

Ralph W. CordierDirector of Summer Session
and Dean of Instruction

John E. DavisDirector of Student Teaching,
Laboratory School, and Placement

Arthur F. NicholsonDirector of Public Relations

S. Trevor HadlevDean of Students and Director
of Summer School Activities

Leroy H. SchnellDean of Men

Nancy J. NewkerkDean of Women

SUMMER SESSIONS 1961

There will be three sessions the summer of 1961, 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-season 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.

Graduate Program

Information concerning the graduate program leading to the M.Ed. Degree may be secured by writing the Director of Graduate Studies.

TEACHERS IN SERVICE

In view of the critical need for qualified teachers and the promise of better salaries for those who hold degrees or who are properly certified it is in your interest and in the interest of the school you serve to further your education. The summer session program at Indiana is planned to enable you to continue work toward a degree, to make your provisional certificate permanent, to acquire the necessary credits to add another field to your certification as well as to enable graduates of arts colleges to secure credits toward certification.

Individuals who plan to complete their degree or their requirements for certification at Indiana but who have taken work at another college or colleges should have an official transcript of this work sent to the Dean of Instruction. An evaluation of these and other credits may be made to determine what is required for graduation or certification. Address any other inquiries you may wish to make to the Dean of Instruction.

SUMMER GRADUATION

In the summer of 1957 we instituted the plan of holding a summer graduation exercise for the benefit of those students who complete their work during the summer sessions. The summer commencement for 1961 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 1961 should write or call at the office of the Dean of Instruction to secure application forms for graduation. These forms properly filled in must be returned to the office of the Dean of Instruction not later than June 1, 1961.

RELAXATION AND RECREATION AT INDIANA

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

The very nature of the summer session 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 1961 call for the continuation of the Summer Theater Guild program in Fisher Auditorium. This college-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 card. Last summer students thoroughly enjoyed the presentation of "Anniversary Waltz," "State of the Union," "Glass Menagerie," "Amphitryon 38," "Petey's Choice," and "Tender Trap."

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

Dr. Foster Grossnickle, Professor of Mathematics, New Jersey State College —

"Teaching is the Queen of the Professions."

Mr. George Swetnam, Historian and Staff Writer, Pittsburgh Press —

"Heroes, Heels, and Hexes."

Muriel Wolfson, Young American actress —

"Two Lives" — a dramatic presentation of the lives of Helen Keller and her teacher, Ann Sullivan.

- Dr. John A. Decker, Professor of International Relations,
Stephens College —
"Impressions of Soviet Russia" — an illustrated lecture.
- Drew Pearson — internationally known news columnist —
"Drew Pearson Reports."
- Musical Miniatures Ensemble — a fine musical program from
the Boston Lyric Theater.
- Joseph Olgin — public educator and lecturer —
"Adventure in Understanding"
- Lisa Chickering and Jeanne Porterfield — color film and
lecture —
"Austria A La Carte"
- Joseph Kramm — Pulitzer prize winning American dramatist—
"The Pains and Pleasures of Playwriting"
- Grant Reynard — American artists —
"An Artist's Portfolio"
- The Strolling Players of America — scenes and speeches
from Shakespeare —
"All the World's a Stage"
- Dr. S. P. McCutcheon, Chairman, Social Studies Dept., New
York University
"The Elusive Liberal"
- Paul Cherney — action films taken under the Red Sea—
"The Secrets of the Underwater World"
- The Porgy and Bess Singers — American music presented in
concert

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 1961 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. Buses will be chartered for visits and field trips to many of these places. Music fans may get a group

together to attend the Civic Light Opera at Pittsburgh. They may be joined by a group more interested in professional baseball at Forbes Field. 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 the Dining 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. Campus picnics and steak fries have also been popular and will be continued. The Auditorium patio will provide the setting for a number of square dances. Evening dances and informal student activities will be held in the new Student Union Building which will be used during the summer of 1961.

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. Other lounges in John Sutton Hall and Whitmyre Hall are provided as places for meeting friends, visiting, or just reading or loafing. Several television sets provided by the Alumni Association are available for student use in well located places.

GENERAL INFORMATION

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 from 1:00-2:30 p.m. the first day. Those wishing credits evaluated should see the Dean of Instruction.

Registration for Pre-Session—8:15 - 12:00 noon, Monday,
June 5

Registration for Main Session—8:15 a.m. - 3:30 p.m., Monday, June 26

Registration for Post-Session—8:15 - 12:00 noon Monday August 7

The dormitories will be open for students Sunday, June 5 at 3:00 p.m. Women students will be housed in John Sutton and Thomas Sutton Halls. Men students will be housed in Whitmyre 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 Waller Gymnasium.
3. See the Registrar in Keith School Gymnasium and pay fees.
4. Secure books at the Book Store as soon as texts are specifically designated for courses taken.

Class Hours. In general all class work will be completed before noon. 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 7:45 a.m. and close at 12:20 p.m., each period being 90 minutes including time for changing classes. 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.

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

The main college 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 college.

Slight illnesses are cared for in the college 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 college must provide themselves with blankets, as the college 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.

Placement Service. The services of the Placement Bureau are available to all students of the college who receive certification. The directors of the various departments take active interest in the placement of their graduates. Coordination of effort is secured through a central committee. The bureau supplies credentials to employers who are seeking applicants for positions and serves as a center where graduates may keep their records up-to-date. Alumni are using the Bureau increasingly. Teaching positions are not guaranteed by the college, but Indiana's record of placement is among the very best in Pennsylvania.

COURSES FOR THE SUMMER SESSION

The six curricula are published only in part in this bulletin. Only those courses to be offered in the summer session are described in this catalog. Any course will be taught in the summer if there is sufficient demand. It is very important, therefore that students make known their desires in advance.

Courses listed on the center pages of this bulletin seem certain to be offered, as will others for which there are enough advance requests. Except in special subjects or majors in the secondary field, ten students are necessary to justify a class. The college will be under no obligation to give any course in which fewer than ten are enrolled on opening day.

ADVANCED COURSE RESERVATION

At the close of this catalog will be found a form on which you may indicate your course interests and needs. Please fill it in and return it to Dr. R. W. Cordier, Dean of Instruction.

NEW CURRICULAR OFFERINGS

Indiana State College has been authorized to offer courses leading to a degree and certification in the special fields of Speech and Hearing Handicapped and the Mentally Retarded. Those who are interested in these fields should note that a rather full program of courses is being offered in these two fields of special education.

WORKSHOPS AND SEMINARS

A number of workshops and seminars are being featured in the course offerings for the 1961 summer sessions. These unusual learning opportunities are especially adapted to meet the needs of people interested in elementary education, dramatics, educational television, creative writing, conservation, and Pennsylvania History.

Television Workshop. For the sixth successive summer a workshop in television education will be offered in the pre-session, carrying three hours of credit. Its aim is to train teachers in the use and appreciation of television as a medium of instruction in the classroom.

In addition to lecture, demonstration and discussion, students will have experience in writing, producing and acting in several in-class productions. Opportunity will be provided for observations in commercial stations as well as at WQED, Pittsburgh's education outlet; workshops experiences may again be available for a limited number of interested students at WQED.

Elementary Reading Workshop

1 cr., 3 cr. or non-credit

The Reading Workshop, June 12-16, is offered as a part of the 3-credit pre session course, Diagnostic and Remedial Reading.

(For course description see Elementary Education Department.) The first and third weeks of this course will be devoted to the classroom preparations and recitations. Students enrolled in this course will spend the second week attending the various sessions of the Workshop. No additional fees are charged to the three-credit students.

The Workshop will be of value to all who are interested in discussions of some of the older and newer methods and materials used in teaching reading in the elementary grades.

Attendance at the Workshop can be on a non-credit or 1-credit basis for \$11.00 fee. For further information address the Dean of Instruction, Director of Summer Sessions, State College, Indiana, Pennsylvania.

Drama Workshop. For the past eight summers the college 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. Six full-length plays of good quality, given during the main session, offer opportunity for acting, prompting and assisting in many phases of production.

The drama workshop cooperates with the Summer Theater Guild, a college-community summer theater project which uses college facilities in Fisher Auditorium for the presentation of the six 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 college students and yields from three to nine hours of credit.

Music Theory Workshops

3 or 4 cr.

The Theory I and II Workshop includes the hearing, playing and writing of the primary harmonies in all inversions using the chorale style of harmonization; the dictation of melodies and notation of concomitant harmonies; the study of the phrase and period through the melodies harmonized; secondary triads and seventh chords, mastery of the circle of fifths, modulation to related keys. Harmonization of melodies in the piano style is begun. Writing of original melodies is introduced. The double-period and phrase group serve as the units for analysis.

The Theory III and IV Workshop includes the study of chromatic harmonies and modulation to remote keys, as well as writing for Men's and Women's Choruses; the study of the song-forms and simple rondo forms; harmonic dictation; continued harmonization at the keyboard, including transportation; further work with chromatic harmonies; studies of the higher rondo, sonation and sonato-allegro forms; original writing.

Opera Workshop

1 to 3 cr.

Training will be provided according to individual need in class and private voice with credits granted according to the amount of work completed.

SPECIAL INFORMATION ABOUT THE DEPARTMENTS

The titles of the courses to be given appear in the lists on pages 24 and 25. A brief discussion of some of the more unusual features in each department is given below. Re-arrangement of courses or other necessary readjustments will be made in effort to meet the needs of individuals. Descriptions of courses may be found under the respective departments in this catalog.

THE ART DEPARTMENT

The Summer Studios in Art provide courses for teachers in service in the Elementary and Secondary Curricula as well as for the art teacher and supervisor. These courses may be used to secure permanent or additional certification or as part of the work toward a degree.

An important feature of the summer work is that teachers already certified in other fields may extend their certificates to include art. Many fine positions are open to elementary teachers who specialize in art.

Students in the Art Curriculum may use the Summer Studios for the purpose of completing courses which they were unable to schedule during the winter sessions. Summer work may also be used to shorten the time necessary for completing a degree.

Art 101 - Introduction to Art**2 cr.**

Studies in the understanding and enjoyment of the visual arts as modes of expression and communication make up the content of this course.

Art 111 - Drawing in All Media**2 cr.**

Problems in pictorial composition and methods of drawing are studied and executed in various media.

Art 113 - Color and Design**2 cr.**

Basic experiences in the functional use of color are given: Color theories are studied. The elements and principles of design are developed from two and three dimensional designing.

Art 114 - Crafts in Elementary Education**2 cr.**

Crafts experiences are given in various materials and processes suitable to the needs of the elementary teacher. The intention is to develop a creative attitude and resourcefulness in the use of three dimensional materials.

Art 115 - Art History I**3 cr**

The visual arts are examined as modes of expression in relation to the life of the individual in the homes and in the community. The period covered is from Prehistoric times to the Renaissance.

Art 116 - Art History II**3 cr.**

This is a continuation of Art History in which appreciation and critical judgment of old and modern masterpieces are goals. The relation of art to the world from the Renaissance to the 20th century is presented. A brief survey of modern art is presented in the latter part of the course.

EI 213 - Art for Elementary Grades**2 cr.**

The creative growth and development of children are studied. Students are given experiences in the basic art materials and media, as well as opportunity to plan art motivations for children.

EI 214 - Teaching Art in Elementary Grades**3 cr.**

This course provides the student with a wide variety of two and three dimensional art experiences with the emphasis on a developmental sequence from simple to more complex variations of a craft. Emphasis is placed on the creative challenges of the art experience.

**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 the 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.

Art 460 - Crafts Materials Experience for Activity Teaching 3 cr.

Craft experiences are given in various media suitable to the needs of the elementary teacher, teacher of special education, and scout leader. Developing a creative attitude to and resourcefulness in the use of art materials and their part in teaching will be stressed in the study of three dimensional design and crafts.

BUSINESS EDUCATION DEPARTMENT

Several distinct needs are provided for in the summer offerings in the Department of Business Education as follows:

1. Courses to allow high school graduates to accelerate before entering the armed forces.
2. Courses in business subjects for teachers in service who wish refresher work.
3. Advanced courses required for the completion of the degree.
4. Sequential courses for Veterans who are completing accelerated programs.
5. Review courses for those students in regular attendance who wish to strengthen their standings before fall.

Bus. 221 - Accounting I 3 cr.

This is the introductory course. 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 accrued basis of bookkeeping.

Bus. 251 - Accounting II**3 cr.**

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. Special attention is given to the preparation of columnar records for different types of businesses along with the preparation and interpretation of comparative financial reports.

Bus. 352 - Accounting III**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 - Accounting IV**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. 455 - Accounting V**3 cr.**

In this course students conduct a semi-detailed audit of business records, make the corrections, and submit statements of results. Problems of public and private auditing are developed by the instructor. The construction and organization of working papers and the auditor's final report are covered. It also provides the prospective teacher with a knowledge of the current tax laws in connection with Social Security, Exercise and Income Taxes.

Bus. 111 - Business Mathematics I**3 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. The course is designed to lay a groundwork for Business Mathematics II.

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. 131 - Typewriting I 2 cr.

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.

Bus. 232 - Typewriting II 2 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 and manuscripts. Production ability is developed.

Bus. 271 - Typewriting III 2 cr.

This course deals with letter writing, writing on special business and legal forms; setting up outlines, programs, indexes, title pages, proofreaders' marks; copying from longhand and corrected copy writing manuscripts; tabulating; problems of English, such as capitalization, punctuation, and paragraphing; and many other practical and educational matters.

Bus. 261 - Shorthand I 3 cr.

This is an introductory course in the basic principles of Gregg Shorthand Simplified.

Bus. 262 - Shorthand II 3 cr.

There are three major objectives for this course; to review and strengthen the student's knowledge of the principles of Gregg Shorthand Simplified, to build shorthand-writing speed and to build transcription skill.

Bus. 311 - Problems in Business Education 3 cr.

In this course are outlined the purposes of secondary business education; the curriculum and its development; guidance, placement, and follow-up; administration of the business department; physical layout, equipment, and supplies; and trends in business education.

Bus. 312 - Methods of Teaching Business Courses 3 cr.

This includes methods of teaching general courses, as well as shorthand, typewriting, and bookkeeping. Demonstration and lesson planning are emphasized. It includes the construction, administration, scoring, and grading of various types of tests; analysis of test results, remedial teaching and retesting; evaluation of tests, all tied together in the psychological foundation of methodology.

Bus. 335 - Clerical Office Practice 3 cr.

Clerical office routine is covered, together with the fundamentals of operating various office machines—calculators, adding machines, stencil duplicators, dictaphones, and various office appliances; also the theory and practice of office management is stressed. The use of the dictaphone is required of all, and transcription is offered to the stenographic students.

Bus. 433 - Work Experience 6 cr.

For those persons working toward a major in Retail Selling, the course is designed to be a practical cooperative plan for retail training in business establishments. The student spends a minimum of six weeks of full-time work at which time he puts into practice the theories of retailing studied in previous retail training courses. The 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.

EDUCATION AND PSYCHOLOGY DEPARTMENT

The courses in Education are provided for: (1) students who are working for their degrees, (2) students and teachers who seek extension of their certificates, and (3) teachers who wish to have their College Provisional Certificates made permanent. The following courses will be offered this summer:

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. 251 - Fundamentals of Guidance **3 cr.**

This course gives consideration to the function and implementation of guidance services. It presents an over-all view of guidance in relation to individual problems of adjustment in home and school, on the job, and to civic and social relationships. Throughout the course the relation of the curriculum to guidance and of the teachers to the guidance worker is dominant. The knowledge, techniques, and opportunities for careers in guidance service are presented for consideration.

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

A consideration of the needs for sensory techniques and materials 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.

ED. 315 - Problems of Secondary Education and Guidance **3 cr.**

This is a basic course in secondary education designed to aid the student with the practical problems of teaching. Special attention is given to problems in such areas as: teacher-pupil relationships, classroom organization, the nature of the secondary school population, the curriculum, extra-class activities and home room practices.

ED. 362 - Developmental Reading **3 cr.**

Developmental reading is the process, continuous and progressive, that develops, refines, and puts to use the interrelated skills and abilities that are needed if one seeks to communicate through printed language. It is an ongoing process in which one goes from skill to skill, power to power as one advances to higher and higher levels of maturity. This course surveys the various aspects of developmental reading including corrective, remedial, personal, and oral phases of the process and the place of each in the total program.

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.

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.

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. 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.

Ed. 371 - Basic Educational Still Photography 3 cr.

This course is designed to present the possibilities and techniques of photography to the potential classroom teacher or administrator. Subjects for discussion and practical work include: Selecting the good picture for educational purposes, exposing the negative, using the light meter, artificial and flash lighting techniques, natural light photography, film types and speeds, filters, color temperature control, shooting and developing color transparencies, developing, printing and enlarging black and white pictures, and planning and executing picture stories.

Ed. 372 - Basic Educational Motion Picture Production 3 cr.

This course is designed to acquaint the student with the basic techniques and equipment of film production for classroom, laboratory, and public relations purposes. The topics to be discussed include: Camera handling and operating techniques, correct exposure determination, lighting, film stocks, use of filters, color and black and white cinematography, basic editing technique, beginning directorial techniques, planning for sound, sports and news-reel photography, scientific photography, introduction to animation techniques, and pictorial continuity. Considerable practical work is planned.

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.

Psy. 451 - Psychology Practicum 3 cr.

In the summer of 1961 Indiana State College will offer for the tenth year an unusual work-study practicum in psychology for twenty selected students at the Torrence State Hospital. Those chosen will work a 40-hour week as attendants at the Torrence 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: Dr. George Stouffer, Assistant Dean of Instruction, State College, Indiana, Pennsylvania. Prerequisite: 6 hours of psychology.

SPEECH AND HEARING HANDICAPPED

SpH. 252 - Speech Development and Improvement 3 cr.

This course, designed for majors and elementary students, includes the study of normal speech development, types of speech and hearing disorders common to the classroom, and procedures for classroom speech improvement. Each semester, each year.

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

This course surveys current methods of speech reading and auditory training for the hearing handicapped person. Demonstrations and projects in clinical methods will be stressed. First semester, each year.

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 Group 1-2.

SpH. 352 - Stuttering 3 cr.

Prevalent theories of stuttering and methods of therapy will be studied. Extensive consideration will be given to stuttering diagnosis, direct and indirect therapeutic approaches for young stutterers, and symptomatic therapy for adolescent and adult stutterers. Demonstrations and observations of stuttering therapy will be provided.

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.

MENTALLY RETARDED

Psy. 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 typical in areas of physical, mental, emotional, and educational development. This

will enable the teacher to identify for referral those pupils who need special class placement or a special instructional program within the regular classroom.

Psy. 320 - Psychology of Mentally Retarded Children 3 cr.

This course will point-up the importance of viewing the retarded child as a living, adjusting individual who responds to many kinds of situations and who is capable of far more than usually imagined. The importance of the way in which he adjusts is especially relevant to the nature and manifestation of his retardation will be stressed. An attempt will be made to promote an understanding of all of the factors that influence his development and adjustment. To do this it will be necessary to explore the forces that operate within and upon him and the dynamic way in which he attempts to resolve them.

Ed. 420 - Teaching Mentally Retarded Children 3 cr.

This course will consider the basic design, philosophy, and procedure developed for teaching mentally retarded children. Emphasis will be placed upon how to organize for teaching the mentally retarded child, how to guide the activities of the mentally retarded child, and how to teach the "fundamental processes" to the mentally retarded child.

ELEMENTARY EDUCATION DEPARTMENT

The courses offered in elementary education may be used as credit toward a degree, for certification in elementary education, or for permanent certification.

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. Pre Session.

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. Main and Post Session.

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

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

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

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

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

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

Ed. 355 - School and Community **3 cr.**

This course helps to identify and give the techniques for the use of a great variety of community resources that can be used to enrich classroom instruction. Included also is a study of various outside influences on the school and its curriculum and the techniques of public relations that can be practiced by the classroom teacher.

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, prob-

lems, motives, and relations with others—and around the techniques and procedures for identifying, studying, and giving help to children in respects to their facets of personality.

El. 413 - Teaching of Language **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. Elementary Workshop in Language Arts will be a part of this course. Main-Session

El. 411 - Teaching of Social Studies and Geography **3 cr.**

This course presents the social studies content for the elementary school organized into units according to the Pennsylvania Course of Study. Current philosophy of social living in the classroom, trends, patterns and principals of organization of the social studies program are studied. Emphasis is placed on the implications of child development for the content and methods. Students will have experience in preparing resource units, preparing and using related audio-visual materials, participating in field trips and reading and evaluating informational sources for social studies in the elementary school. Main Session.

ENGLISH-SPEECH DEPARTMENT

The four English courses required of all students for graduation will be offered during the summer. Either Literature I or II may be taken for credits in World Literature, an elective which can be used for permanent certification in Elementary Education.

For the tenth year the Drama Workshop will be offered in conjunction with the College-Community Theatre Guild program of six plays. Students, working under college coaches and technicians, get valuable experience in all phases of theater. Credit can be gained in four speech electives—Play Production, Community Dramatics and Pageantry, Costume and Make-up, and Stagecraft, Scenic Design, and Lighting. As many as three courses may be taken during the summer — one in the pre-session when preparations are being made for the guild program, two in the main. With the permission of the Dean of Instruction and the Director

Pre-Session
June 5 — June 23

Begins June 26
7:45 — 9:10 A.M.

ART	Art 101 Intro to Art	El 213 Art for Elem Grades
	Art 111 Drawing in All Media	
BUS	Art 115 Art History I	Bus 251 Shorthand I
	El 213 Art for Elem Grades	Bus 262 Shorthand II
EDUC	Bus 311 Problems in Buc Educ	Bus 312 Business Math II
	Bus 455 Accounting V	
ELEM	Ed 301 Audio Visual Ed.	Ed 251 Fund of Guidance
	Ed 301 Audio Visual Ed.	Ed 301 Audio Visual Ed
ENG	Ed 302 Hist & Phil Am Ed	Ed 301 Audio Visual Ed
	Psy 201 General Psychology	Ed 302 Hist & Phil Am Ed
FOR LANG	Psy 220 Intro Except Child	Ed 305 Eval Meth in Ed
	Psy 302 Educ Psychology	Psy 201 General Psych
GEOG	SpH 252 Speech Dev & Imp	Psy 320 Psych of Ment Ret
	SpH 352 Stuttering	SpH 311 Sp Read & Aud Train
HEALTH	Psy 451 Psychological Practicum	El 221 Child Literature
	Ed 355 School & Community	El 351 Creat Act in El Sch
HOME EC	El 352 Diag & Rem Reading	
	El 460 Elem Workshop (Reading) (June 12-16)	
KEITH	Psy 215 Child Development	
	Drama Workshop	
MATH	EngS 201 Literature I	EngS 101 Communication I
	EngS 201 Literature I	EngS 101 Communication I
MUSIC	EngS 202 Literature II	EngS 102 Communication II
	EngS 243 Contemporary Fiction	EngS 202 Communication II
PUBLIC SCHOOL NURSES	EngS 376 TV in Education	EngS 202 Literature II
		EngS 222 Advanced Composition
SOC	Fr 111 French I	Sp 111 Spanish I
	Ger 111 German I	Ir 251 Special Projects
ST	Geog 111 World Geography	Geog 246 Physiography
	Geog 112 Geog US & Pa	Geog 356 Geog of Europe
SCIENCE	Geog 249 Meteorology	
	Geog 491 Tchg Geog in Sec Sch	
SS	HPE 251 Intro to Safety Ed	HPE 253 Meth & Mat in Saf Ed
	El 314 Tchg Health & Phys Ed	
SCIENCE	PSN 402 Nutrition & Comm Health	HE 314 Text & Cloth Econ
	HE 403 Home & Family Living	HE 358 Food Service Equip & Layout
SS	HE 417 Clothing III	PSN 403 Family Case Work
		Elementary Student Teaching Clinic.....
SS	Math 111 Fund of Math	Secondary Student Teaching Clinic.....
	Ed 451 Tchg of Math	Math 152 Math Anal II (Trig & Anal Geom) (Scr, Note: 1st & 3rd Pds)
SS	Mus 101 Intro to Music	Math 375 Intro to Mod Math
	Mus 311 Music History I	Mus Theory Workshop (Theory III)
SS	El 211 Music for Elem Grades	Mus 101 Intro to music
		El 212 Tchg Mus in Elem Gr
SS	PSN 402 Nutrition & Comm Health	PSN 403 Family Case Work
	Psy 302 Educ Psychology	EngS 101 Communication I
SS	Ed 302 Hist & Phil of Amer Ed	(Other courses or combinations
		Sci 102 Basic Physical Science
SS	Sci 101 Basic Biology	Sci 111 Sci in Mod Civ
	Sci 102 Basic Physical Science	Sci 161 Zoology I
SS	Sci 173 Inorganic Chem (HEC)	Sci 171 Inorg Chem I
	Sci 311 Elements of Earth Sci	Sci 172 Inorg Chem II
SS	Sci 367 Bacteriology (HEC)	Sci 181 Physics I
	Sci 379 Industrial Chemistry	Sci 182 Physics II
SS		Sci 275 Qualitative Analysis
		Sci 274 Quantitative Analysis
SS	SS 202 History of Civ II	
	SS 251 Princ of Sociology	
SS	SS 301 History US & Pa I	
	SS 302 History US & Pa II	
SS	SS 344 Public Finance	
	SS 379 History of Pa	
SS	SS 401 American Citizenship	
	SS 401 American Citizenship	
SS	SS 420 Intro to Philosophy	
	SS 451 Tchg Social Studies	
SS		SS 202 History of Civ II
		SS 302 History US & Pa II
SS		SS 352 Racial & Cult Minor
		SS 401 American Citizenship
SS		SS 420 Intro to Philosophy

Class schedules—Classes in the Pre and Post Sessions will be scheduled as follows:—8:00 - 9:30
Limitations—No student will be permitted to take more than 6 semester hours during the Main

Main Session
9:20 — 10:45 A.M.

Ends August 4
10:55 — 12:20 P.M.

Post Session
August 7 — August 25

113	Color & Design
330	Arts & Cr for Ment Ret
460	Crafts Mats Exp for Activity Tchg
111	Business Math I
221	Accounting I
251	Accounting II
335	Cler Office Practice
433	Retailing Selling III
301	Audio Visual Ed
315	Probs of Soc Ed
371	Photography in Ed
220	Intro to Except Ch
302	Educ Psychology
352	Mental Hygiene
322	Sp & Hear Clinic I

Art 101	Intro To Art
Art 116	Art History II
El 214	Tchg Art Elem Cr
Bus 131	Typing I (2cr)
Bus 232	Typing II (2cr)
Bus 271	Typing III (2cr)
Bus 312	Meth Tchg Bus Crs
Bus 352	Accounting III (Stores) (6cr)
Ed 301	Audio Visual Ed
Ed 372	Motion Pic Prod in Education
Fd 420	Tchg Men Ret
Ed 454	Public Sch Adm
Psy 355	Adal Psychol
Psy 353	Sp & Hear Clin II

Art 101	Intro to Art
Art 114	Crafts in Elem Education
Art 115	Art History I
El 213	Art for Elem Grades
Bus 353	Accounting IV
HE 350	Accounting for Food Service Operation
Ed 301	Audio Visual Education
Ed 305	Eval Methods in Ed
Ed 362	Dev Reading
Psy 201	General Psych
Psy 302	Ed Psychology
Psy 320	Psych of Mentally Retarded
Ed 305	Evaluation Methods

(June 12 to August 18)

356	Guild in Elem Ed
413	Tchg Long Arts
	(5cr)
	(5cr)
	(5cr)
	(5cr)
	(5cr)
101	Communication I (5crs)
101	Communication I (5crs)
101	Communication I (5crs)
102	Communication II (5crs)
102	Communication II (5crs)
102	Communication II (5crs)
201	Literature I (5crs)
363	Structure of Eng
112	French II

El 222	Tchg of Reading
El 411	Tchg Elem Soc St
EngS 202	Literature II (6cr)
Ed 451	Tchg Eng & Speech
Sp 253	Special Projects
Geog 149	Economic Geog
Geog 251	Geog US & Canada
HPE 101	Health (2cr)
HPE 204	Phys Ed 111 (1cr)
HE 411	Family Relations
HE 451	Clinic in HE Ec Ed
	(6cr)
	(6cr)
Math 111	Fund of Math
Math 152	Math Anal II (Trig Anal Geom) (5cr)
	(Note: 1st & 3rd Pds)
Mus 411	Meth III (Instr)
Mus 415	Orchestration
El 211	Mus for Elem Gr II (4cr)
Ed 454	Public Sch Adm
SS 302	History US & Pa II

El 221	Child Literature
EngS 201	Literature I
EngS 202	Literature II
EngS 202	Literature II
EngS 221	Journalistic Writing
EngS 251	History of English Language
EngS 469	Oral Interpretation
Sp 112	Spanish II
Ger 112	German II
Geog 352	Conservation Workshop
Geog 360	Geog of Latin America
HPE 101	Phys Ed I (1cr afternoon)
HPE 203	Phys Ed II (1cr afternoon)
Math 256	Spherical Trig & Navigation
Mus 101	Intro to Music
Mus 312	Music History II
El 212	Tchg Music in Elem Grades
PSN 301	Public School Nursing
SS 202	History of Civ II

255	Cartography
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253	Special Projects
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112	Spanish II
112	German II

254	Org & Adm Safety Ed
403	Home & Family Liv
413	Consumer Econ

411	Family Relations
451	Clinic in HE Ec Ed

101	Phys Ed I (1cr afternoon)
203	Phys Ed II (1cr afternoon)

353	History of Math
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111	Fund of Math
152	Math Anal II (Trig Anal Geom) (5cr)
	(Note: 1st & 3rd Pds)

256	Spherical Trig & Navigation
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101	Intro to Music (3cr or 6cr)
315	Methods I (Elem)
353	Counterpoint
	Theory Workshop (Theory I or II) (5cr)
301	Audio Visual Ed
401	Am Citizenship

411	Meth III (Instr)
415	Orchestration
211	Mus for Elem Gr II (4cr)
454	Public Sch Adm
302	History US & Pa II

101	Intro to Music
312	Music History II
212	Tchg Music in Elem Grades
301	Public School Nursing
202	History of Civ II

	II (4cr)
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	(First 3 wks. 3cr)
	(Second 3 wks. 3cr)

	(First 4 wks. 4cr)
	(Second 4 wks. 4cr)
	(First 4 wks. 4cr)
	(Second 4 wks. 4cr)

101	Basic Biology
312	Tchg of Elem Sci
201	History of Civ I
301	History US & Pa I
401	American Citizenship
410	Intro to Anth
421	Logic

102	Bas Phys Sci
372	Entomology
202	History of Civ II
251	Princ of Soc
302	Hist US & Pa II
361	Contemp US Hist
401	Am Citizenship

101	Basic Biology
102	Basic Physical Science
277	Organic Bio Chem (HEC)
202	History of Civ II
240	Princ of Economics
302	History of US & Pa II
380	History of Russia
401	American Citizenship
401	American Citizenship
420	Intro to Philosophy

of the Workshop, students may enroll for only one course in the main session.

EngS. 101 - Communication I **5 cr.**

This course is designed to develop basic skills in reading, writing, speaking, listening, observing, and demonstrating. Media employed include books, magazines, radio, movies, television, art, music, drama.

EngS. 102 - Communication II **5 cr.**

This course is a continuation of Communication I. Second semester, freshman year. Prerequisite: Communication I.

EngS. 201 - Literature I **3 cr.**

In this course the literature studied includes, in addition to outstanding American and British literary efforts, non-English works in translation from the outstanding cultures and nations of the world.

EngS. 202 - Literature II **3 cr.**

The materials of this course will include works written in the English language—American, British, Canadian, Australian, South African, etc. Special emphasis will be put on contemporary writing as it reflects important problems.

EngS. 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.

EngS. 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.

EngS. 243 - Contemporary Fiction **3 cr.**

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

EngS. 263 - The Structure of English 3 cr.

Training is given in the analysis of modern English by the methods and initials 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 in the Secondary School.

EngS. 376 - Television in Education 3 cr.

This course has as its primary aim the training of teachers to use television as a medium of instruction in connection with classroom work. Through lectures and discussions on the campus, and through observation and workshop experiences at WQED, Pittsburgh's educational television station, students will be given training in planning, writing and producing telecasts of an educational nature.

Ed 451 - Teaching of English and Speech 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. EngS 363 is a prerequisite to this course, and this course is in turn a prerequisite to student teaching in English.

EngS. 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.

EngS. 469 - Oral Interpretation 3 cr.

This course emphasizes the understanding and appreciation of literature through developing skill in reading aloud. Special attention is given to selecting, adapting, and preparing material for presentation in high school classes.

FOREIGN LANGUAGE DEPARTMENT

Fr. 111-112 - French I and II 3 cr. each

Ger. 111-112 - German I and II 3 cr. each

Sp. 111-112 - Spanish I and II 3 cr. each

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

Fr. 253 - Special Projects 3 cr.

During the summer of 1961 this course, designed to meet the needs of students presenting a minimum of one year of language at the college level (two in high school), will deal with the modern stage in France. Due consideration will be given to the social and cultural factors underlying the development of this recent theater. Advanced students will be assigned related outside readings and reports.

Sp. 253 - Special Projects 3 cr.

During the summer of 1961 this course designed to meet the needs of students presenting a minimum of one year of language at the college level (two in high school), will deal with the modern stage in Spain. One consideration will be given to the social and cultural factors underlying the development of this recent theater. Advanced students will be assigned related outside readings and reports.

GEOGRAPHY DEPARTMENT

Interest in geography and the teaching of geography is increasing. Recently, requests for trained geography teachers have been more than the supply. In addition, universities are accepting our geography majors as assistants in the graduate geography department. Geography, acting as the catalyst between the social and natural sciences, is finding an influential place in modern society.

This summer the Geography Department will offer a wide variety of courses to teachers-in-service and accelerating students. As much as twelve credit hours of work in geography may be obtained during the summer sessions.

Geog. 111 - World Geography **3 cr.**

The purpose of this course is to develop a knowledge and appreciation of pattern 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 inter-relationships 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 distribution, world trade routes and related natural factors. It also deals with the applications of these understandings to the solution of national and international problems.

Geog. 246 - Physiography **3 cr.**

This course involves a detailed study of the physical geographic phenomena of the earth, sun, moon relationship and of the creation, structure and distribution of landforms such as mountains, river systems, glaciers, plateaus. It provides the student with an understanding of the natural base on which the role of human activity is performed. Understanding and appreciation are increased through field trips and laboratory experimentation.

Geog. 249 - Meteorology **3 cr.**

This course analyzes the laws and underlying principles of atmospheric changes. An opportunity is given for students to become familiar with common weather instruments, to read and interpret weather maps, to observe and record weather data, and

discuss problems arising from the use of the atmosphere as a medium of travel and transportation. Record keeping, problems solving and laboratory experiments lead to an understanding of weather forecasting, etc.

Geog. 255 - Cartography **3 cr.**

This course is designed primarily to enable the student geographer to attain proficiency in the use and interpretation of maps, globes, cartograms and geographic diagrams. The history of maps; the development of signs, symbols, map scales; the construction of projects, graphs, and diagrams; and, the application of each of these to the teaching of geography are stressed.

Geog. 352 - Conservation Workshop **3 cr.**

Conservation of resources requires action on the part of the citizen. Why action is necessary and how it can be implemented is of major concern of this study of conservation problems of land, water, plant, animal, and human resources.

Geog. 356 - Geography of Europe **3 cr.**

The aim of this regional course is to help students acquire the ability to find and apply geographic relationship underlying land use, dominant international problems, boundary disputes and the regional complexes of the European continent. Special attention is paid to the natural and cultural patterns as developed in modern times.

Geog. 371 - Geography of South America **3 cr.**

In this course a regional study is made of Middle and South America. Special emphasis is given to regional differences and similarities. Latin American relations with other areas, especially the United States are stressed.

Geog. 251 - Geography of the United States and Canada **3 cr.**

This course is a regional study of the United States and Canada, concerned with the investigation of man's adjustment to his environment as determined by the physical factors of climate, vegetation, relief, soils and natural resources. Recognition of political adjustments to the geographic environment and the inter-relations between the two countries and the rest of the world are stressed.

HEALTH AND PHYSICAL EDUCATION DEPARTMENT

The widespread extension of Driver Education and Training among the high schools of the nation has confronted school administrators with the perplexing problem of finding teachers equipped by preparation and experience to offer such courses. Qualified enthusiastic high school teachers of Driver Education and Training are in increasing demand and face an interesting and productive career.

Certification in the Field of Education for Safe Living

The State Council of Education approved this new certification January 9, 1948. The four courses below, General Safety Education, Driver Education, Organization and Administration of Safety Education, and Methods and Materials in Safety Education in the Secondary Schools, will meet all of the requirements for certification in this field.

HPe 101 - Health 2 cr.

Health consists of a study of the individual and community problems with the chief emphasis placed on the improvement of the student's own health.

HPe 102 - Physical Education I 1 cr.

This course provides a seasonal program of sports and activities that will have some carry-over value. The activities will improve the physical fitness of the student and develop a number of sport skills.

HPe 203 - Physical Education II 1 cr.

A continuation of physical Education I with greater emphasis on participation in activities learned in Physical Education I.

HPe 204 - Physical Education III 1 cr.

This course will provide for greater specialization in selected activities to bring personal performance ability to advanced levels. "The equivalent of the American Red Cross Standard First Aid Course will be included in this course."

El. 314 - Teaching of Health and Physical Education 3 cr.

The Teaching of Health and Physical Education covers units designed to present the meaning, aim, scope and materials related to Healthful School Living, Health Service, Health Instruction, Ele-

mentary Grade Activities in Physical Education. Lesson Planning and Practice Teaching.

HPe 251 - General Safety Education **3 cr.**

The General 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 354 - 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.

HOME ECONOMICS DEPARTMENT

The home economics department is making every possible effort to help teachers in the field keep up to date or bring themselves up to date if they are returning to teaching and to help

present and future teachers become certified. Clinic in Home Economics Education is accepted as Methods in Home Economics Education (Vocation) for experienced teachers. The subject matter courses offered are to meet indicated needs of regular students and teachers-in-service.

A second purpose is to better prepare all men and women to be healthy, happy and more efficient individuals, future heads of families, homemakers and parents. Home and Family Living is a general education course required of non-majors. All subject matter courses are open to anyone who is interested and can profit from the course.

HE. 314 - Textiles and Clothing Economics 3 cr.

The manufacture of fabrics and the making and retailing of ready made garments is considered in relation to retail cost. Selection and upkeep of clothing and household textiles is studied from the stand point of quality of fiber, fabric and finish. Labels and laws governing the sale of fur, fabrics and manufactured articles are investigated.

HE. 352 - Home and Family Living 3 cr.

Many needs of men and women as heads of families and homemakers and as parents are met. Units studied are: how nutritionally adequate meals provide for body food need; food purchasing preparation and service, child care, development and guidance; the family and the role of each member, clothing selection and care; housing the family; furnishing and equipping the home: house care and management; and wise use of human and material resources.

HE 358 - Food Service Equipment and Layout 3 cr.

Selection, arrangement and care of equipment and furnishings for food service organization.

HE 359 - Food Purchasing 3 cr.

Standards of quality, food laws, food cost factors, distribution and storage of food supplies to serve as a basis for purchase of such commodities for school food service.

HE 360 - Accounting for Food Service Operation 3 cr.

Business procedures and practices; the use of accounting as a managerial tool; introduction to the basic theory of accounts: knowledge and skill adequate to keep books for a food service

operation; journalizing, posting, use of ledger accounts, closing books of original entry and statement preparation.

HE. 411 - Family Relations **3 cr.**

Students have opportunity to gain knowledge and understanding of personality development and the importance of early family and community influence in well adjusted lives and family stability. Emphasis is on preparation for marriage and problems of human relations within homes. Reading, discussion, and conferences are used in facing and solving problems.

HE 413 - Consumer Economics **3 cr.**

An understanding of economic problems of consumer buyers is sought. Problems of production, distribution, merchandising, and buying are studied. Emphasis is placed upon help available from government, private agencies and consumers themselves. A program for the education of intelligent consumers is planned. Gaining maximum satisfaction from goods and services available to each family is an important goal.

HE. 417 - Clothing III **3 cr.**

A coat or suit is tailored and a garment remodeled. Additional ability is gained in pattern construction and use, construction techniques, selection and care of clothing. Constructed garments are compared with ready-to-wears. The cost of fabric is approximately \$40.

HE. 451 - Clinic in Home Economics Education **3 cr.**

This course provides further study for teaching various areas needed for adequate living in the home and the community. The philosophy underlying learning, evaluation, curriculum planning and effective teaching is studied and applied to specific field situations.

KEITH SCHOOL

Student Teaching

Student teaching in the summer is offered in the Main Session only and is provided on both Elementary and Secondary levels. To be eligible a student must meet the following requirements: (1) One semester of resident work at Indiana within one year previous to student teacher semester. (2) At least twelve hours of work

in professional courses. (3) Five years of experience or previous student teaching at Indiana for students wishing to do student teaching during a summer session. (4) Transfer students must meet the above requirements and in addition must have the approval of the Committee on Professional standards. Approval in general depends upon meeting the requirements for Junior Standing.

Student teaching is scheduled for the Main Session only beginning June 27. Applications must be filed by May 1 to assure enough opportunities for all who desire to do their student teaching this summer.

MATHEMATICS DEPARTMENT

Math. 111 - Fundamentals of Mathematics 3 cr.

This course is concerned with cultivating the students' general understanding and appreciation of mathematics. Emphasis will be placed on development of the number system, the processes of arithmetic, equations, graphs, statistics, meaning of proof and the

Math. 256 - Spherical Trigonometry and Navigation 3 cr.

In addition to the usual treatment of theorems of space the course emphasizes alternate methods of proof and applications of algebra and elementary analysis to solid mensuration: spherical trigonometry; and practical applications of space concepts especially in the field of navigation.

Math. 353 - History of Mathematics 3 cr.

A cultural background in the field of elementary mathematics is developed in this course. Emphasis is placed on the history of the development of the number systems of elementary mathematics, computational devices, mathematical symbolism, space concepts, simple logical processes, and the biographies of outstanding mathematicians. Prerequisite: Analytic Geometry.

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 from a postulational viewpoint, starting with the natural numbers, through the integers, fractions, rational, irrational, real, and finally the complex numbers, serves as a model of the rigorous methods used in math-

ematics today. Set theory and its applications in serving to unify topics in high school algebra and geometry are of primary importance.

Ed. 451 - Teaching Mathematics In the Secondary School 3 cr.

This course has for its major objective the preparation of teachers of mathematics for the modern high school. Units include content of their curriculum, objectives, current literature, methods of instruction, unit and lesson planning, evaluation, observation and preparation of curriculum materials.

MUSIC DEPARTMENT

The Music Department offers the following courses to meet the needs of students in General Education, Elementary Education and Music Education:

Music 311 - History of Music I 3 cr.

History of Music I begins with the earliest known music and traces its development up to the beginning of the nineteenth century. Consideration is given to music's position in the history of civilization as well as the social and political pressures influencing the musical life of the various periods.

One of the principal aims is to develop an awareness of the long, involved development of music up to the romantic period.

Mus. 312 - History of Music II 3 cr.

This course begins with Beethoven and the development of the Romantic movement. It deals with the great masters of the nineteenth century and with the development of such art forms as the art song, the piano solo, the symphonic poem, the latter nineteenth century opera, and modern trends of the twentieth century.

Mus. 101 - Introduction to Music 3 cr.

This course provides an orientation in music experience from present to past, and is required of all college students. It aims (1) to enrich the student's cultural experience, as well as (2) to equip the prospective teacher with an understanding of music as it relates to general education and the art of daily living. The possibility of correlations with other subjects is explored. No prerequisite courses or special abilities are required.

Mus. 315 - Methods I (Elementary) 3 cr.

This course offers analytical study of texts, recordings and other materials together with teaching methods suitable to desirable musical development of Elementary School pupils. Experience is given in proper treatment of the child voice; selection, use, and teaching of rote songs; rhythmic development, including rhythm band; music reading; part singing; planning and organization. Guided observations of music lessons in the elementary grades are provided.

Mus. 411 - Methods III (Instrumental) 3 hours—2 cr.

This course is designed to give the student the necessary understanding, techniques and materials to develop an effective instrumental program in the public schools. Demonstrations and laboratory work are designed to give the student the competency needed to meet successfully the various teaching situations in instrumental music from the grades through high school.

Mus. 353 - Counterpoint 3 hours—2 cr.

This course consists of study and analysis of representative works of the great polyphonic writers from the 16th to the 18th centuries. Original work in these styles and forms is also required. Prerequisite: Theory IV.

El. 211 - Music for 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 including the rhythm band, listening lessons, creative activities, note to note process, special days, lesson plans. Observation of music classes in Laboratory School to get practical application of classroom discussions. Emphasis is placed on grades one, two, and three.

El 212 - Teaching of Music in the Elementary Grades 3 cr.

A continuation of skills and understandings as developed in Music for the Elementary Grades is studied with special emphasis being placed on materials and methods suitable for grades four, five, and six. Additional opportunities for growth in music reading and part-singing are provided. Lessons are developed in correlation of music with other studies. Type lessons are taught by the students

and constructively evaluated by class and teacher. Prerequisite: Music for the Elementary Grades.

Mus. 415 - Orchestration 3 cr.

In this course a study is made of the essential characteristics of each instrument of the symphony and symphonic band with particular stress upon the limitations of each instrument, together with the transportation and range problems of each instrument.

Music - Theory Workshops 4 or 3 cr.

See page 10 for description.

Opera Workshop 1 to 3 cr.

See page 11 for description.

PUBLIC SCHOOL NURSING

The college offers a degree program in Public School Nursing. This requires 45 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 24 and 25 for course offerings and pages 16 to 44 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 crises, the attitudes and relation of the family to welfare, approaches and solutions to family problems and the psychology of interpersonal relations are studied. Readings, problem solving, specific family situations and conferences are used.

SCIENCE DEPARTMENT

The summer school program of the Science Department is planned to provide for the following categories of students:

1. Those students who are completing the requirements for a degree.
2. Those specializing in one of the fields of Science.
3. Those students who are seeking additional certifications or permanent certification.

Students specializing in Biological Science will have exceptional opportunities for field work which are not possible during the regular terms.

For the general student Basic Biology, Basic Physical Science and Science in Modern Civilization will be offered.

Teachers in service facing an increasing emphasis on Science in the elementary school will be interested in Science for the Elementary Grades which takes up subject-matter specifically adaptable to the first six grades.

Special attention should be taken of the following courses which will be offered this summer.

Sci. 171-2 - Inorganic Chemistry I and II **8 cr.**

Chemistry I includes the study of non-metals, gas laws, valance, gramolecular volume, ionization, solutions, oxidation, and reduction. Chemistry II include atomic structure and periodic classification of elements, the metals, and simple qualitative tests for cations and anion. Since these two courses give eight credits, students will be required to attend summer school for eight weeks starting with the regular six weeks session.

Sci. 181-2 - Physics I and II **8 cr.**

In Physics I mechanics, heat and sound are studied; in Physics II electricity and magnetism, light, and atomic and nuclear physics are emphasized. Since these two courses give eight credits, students will be required to attend summer school for eight weeks starting with the regular six weeks session.

Sci. 379 - Industrial Chemistry **3 cr.**

This course is a study of the application of chemistry and science to the industries of Western Pennsylvania for the science teacher. Field trips to representative industries will constitute the

laboratory work and serves as a basis for discussion. Two hours lecture and three hours laboratory per week. Prerequisite: Inorganic Chemistry I and II.

REQUIRED OF ALL STUDENTS

Sci. 101 - Basic Biology **3 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 interrelationship with his biological environment. The classification of plants and animals is reviewed briefly.

Sci. 102 - Basic Physical Science **3 cr.**

This course utilizes the field of earth science and astronomy to provide a broadened background of science. The nature and use of energy is the central theme for the study of heat, light, chemical, electrical, and atomic energy. Emphasis is placed on the methods and the thinking of scientists in recognizing and solving problems.

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

This course is designed to acquaint the secondary student with some of the major discoveries of science in all fields and the effects of discoveries upon man's way of life. Emphasis is placed upon developing and understanding of science and its implications. Discoveries leading to more abundant supplies of energy, discoveries contributing to better health and longer life, more rapid transportation, to a more abundant and better food supply, better housing, better clothing, and to greater destructive potential are some of the topics developed.

Required for Students in Home Economics

Sci. 173 - Inorganic Chemistry **3 cr.**

This course includes an introductory study of the non-metals, the gas laws, atomic structure, valance, ionization, solutions, oxidation and reduction, and the periodic classification of the elements.

Sci. 277 - Organic and Biochemistry **3 cr.**

This course is designed to include those topics from the fields of organic chemistry and biochemistry that are most important for the student of home economics. Among the topics included are the aliphatic organic compounds, the physiological functions of mater-

ials, proteins, carbohydrates, fats, minerals, digestion, absorption, and metabolism.

Sci. 367 - Bacteriology 3 cr.

This course is designed specifically for students of home economics. It is a general one-semester course dealing with bacteria in their various relations to man. Applications to food preservation and other problems of the home are stressed. One hour lecture; three hours laboratory.

Required for Students in Elementary Education

Sci. 311 - Elements of Earth Science 3 cr.

This course, following a year of basic science, is designed to provide the teacher with a more adequate background in the areas of geology, meteorology, and astronomy. Emphasis is placed upon first-hand experiences in gathering, tabulating, analyzing and interpreting data in these fields. Activities will include evening sky study sessions, visits to local geological formations, and the establishment of a weather station. Skill in reading weather maps, topographical maps, and sky maps will be stressed during the study of appropriate units. Admission will be by the permission of the department.

El. 312 - Teaching of Elementary Science 3 cr.

Based on the previous work in science, this course takes up the planning and presentation of material suitable to the elementary field. Students are required to perform demonstrations and take part in science activities which illustrate facts or principles taught in the elementary science program. Considerable attention is given to the literature of the elementary science program as well as other aids such as community resources and simple equipment that can be secured for experimentation and other activities.

SOCIAL STUDIES DEPARTMENT

To meet certification and graduation requirements, the Social Studies Department will offer the following courses in the summer sessions:

SS. 201 - 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, aesthetic and intellectual institutions from preliterary times to ap-

proximately 1500 A.D. including the Oriental and Near Eastern cultures as well as the more familiar Greek, Roman, and Germanic contributions to world society, the course deals with broad historical movements rather than with the details of individual peoples and nations.

SS. 202 - History of Civilization II **3 cr.**

Using the same approach as in History of Civilization I, this course deals with man's development from 1500 A.D. 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; and 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.

SS. 401 - 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.

SS. 402 - Introduction to Philosophy **3 cr.**

A course in which attention is given to the method of reflective thought and reasoned inquiry, the nature of truth, man's place in the universe, and the relation between science and religion. Special emphasis is given such schools of thought as humanism, rationalism, naturalism, and idealism as well as the great thinkers who dominated these schools of thought.

SS. 301 - 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.

SS. 302 - History of the United States and Pennsylvania 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. Due attention is 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.

SS. 251 - 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.

SS. 252 - Principles of Economics 3 cr.

A course in which a study is made of the major areas in the field of economics; production, exchange, distribution, and consumption. Special consideration is given wages, interest, rent, profits, price determination, money and banking, and national income.

Ed. 451 - Teaching Social Studies in the Secondary School 3 cr.

This course seeks to familiarize prospective teachers with current trends and developments in the field of social education, with effective procedures for teaching social studies in the secondary school, and to develop a professional interest in social education. Emphasis is placed on the objectives of social education, courses of study, organization of content of teaching, effective procedures and techniques, instructional materials and resources, and evaluation.

SS. 344 - Public Finance 3 cr.

A survey of the revenues, expenditures and debt operations of governments. Special attention will be given to the different requirements and character of the Federal government and of state and local units respectively.

- SS. 352 - Racial and Cultural Minorities** 3 cr.
A study of national, racial and religious minorities and divergent heritages in our national life. Prerequisite: Principles of Sociology.
- SS. 361 - Contemporary United States History** 3 cr.
A course devoted to the analysis of the fundamental changes in American culture since 1900. In evaluating social, intellectual, economic, and political developments since the era of the "Full Dinner Pail", the United States is studied as a product and as a part of the world community of nations. Foreign policy is interpreted as the pursuit of American interests under the conditions imposed by contemporary international politics.
- SS. 379 - History of Pennsylvania** 3 cr.
A study of the founding and development of Pennsylvania from its colonial beginnings to the present time. Emphasis is placed on the social, economic and political developments in the different periods of its history. Special attention is given to the diversity of the people, their institutions and problems and the growth of Pennsylvania to a leading position in our modern industrial world.
- SS 380 - 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.
- SS. 410 - 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.
- SS. 422 - Logic** 3 cr.
Deduction and induction—the formal rules of thought: meaning and definitions, fallacies, the syllogism, the relations between propositions—and the methods of science: the process of problem solving, the verification of hypotheses, the demonstration of theorems, the weighing of values. Attention is also given to certain major epistemological positions.

EXPENSES AND FEES

(Subject to Change)

Contingent Fee for All Students Enrolled. The contingent fee for the summer sessions is \$11.00 per semester hour. A minimum contingent fee of \$33.00 is charged in each session. Thus a student who enrolls for the usual six hours of work will pay:

Contingent Fee\$66.00

Contingent Fee for Special Curricula. In addition to the above fee for the regular summer session, students enrolled in the special curricula will pay additional contingent fees as follows:

Art	\$ 6.00
Business Education	4.00
Home Economics	9.00
Music Education	15.00

OTHER FEES

House Fee	\$102.00
Room with running water, extra	3.00
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

Pre-Session and Post-Session Fees. All fees for the pre- and post-sessions of three weeks are one-half the fees for the regular six-weeks session except: (1) the contingent fee which remains at \$11.00 per semester hour with a minimum fee of \$33.00; (2) the degree fee which remains at \$5.00 and covers the cost of the diploma.

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 Instruction because of illness or other unavoidable cause.

Additional Special Fees for Private Instruction in Music. In addition to the fee mentioned above, a charge of \$8.00 for the main session is made for one lesson per week, in voice, piano, band, or orchestral instruments. This fee is to be paid by students who wish

