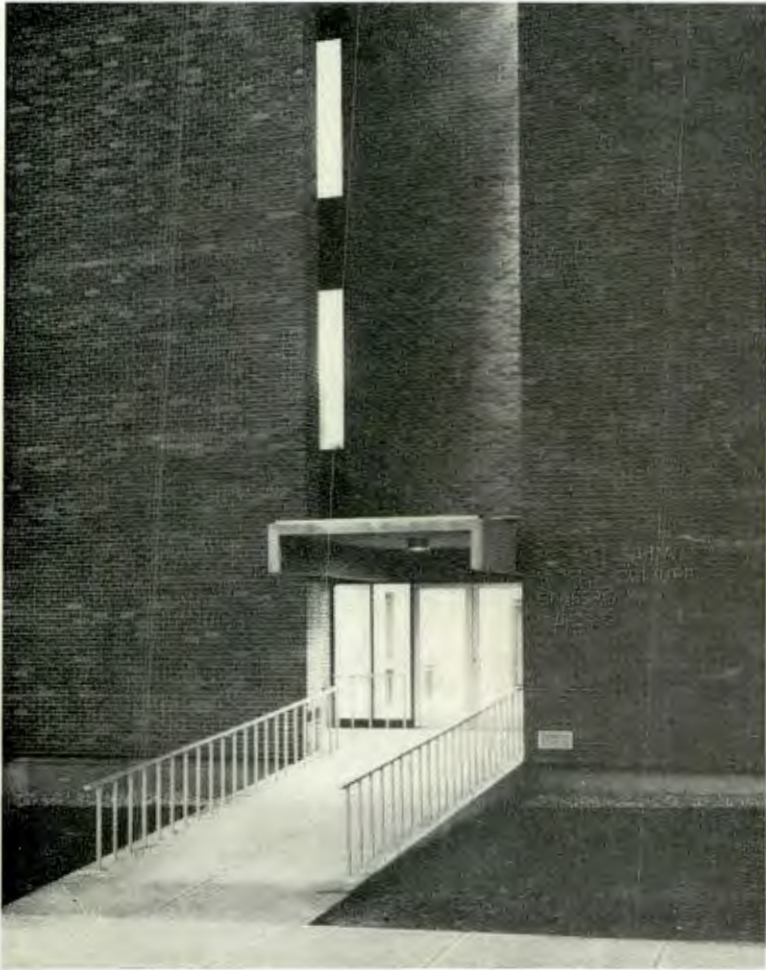


California State College Bulletin





CALIFORNIA STATE COLLEGE
IS FULLY ACCREDITED BY
THE MIDDLE STATES ASSOCIATION OF COLLEGES AND
SECONDARY SCHOOLS
AND BY
THE NATIONAL COUNCIL FOR THE ACCREDITATION OF
TEACHER EDUCATION
THE COLLEGE IS A MEMBER OF
ASSOCIATION OF STATE COLLEGES AND UNIVERSITIES
AND
AMERICAN ASSOCIATION OF COLLEGES FOR TEACHER
EDUCATION.



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California State College Today



The College

The California State College is a state supported institution established and maintained to help provide the schools of Pennsylvania with well trained, competent teachers as well as to provide a liberal education for those not planning to teach. The program for teachers provides the student with a background in general education that is characteristic of educated men and women everywhere, a thorough training in the selected area of specialization and well designed courses in professional education. In addition, the college offers a variety of co-curricular activities of a social-cultural-academic nature designed to provide the student with the opportunity to develop his potentialities as an individual.

To these ends the Commonwealth of Pennsylvania has provided the buildings, the professional and the non-professional staff through many years of legislative support. The several fees paid by students represent only a portion of the cost of operating the college. Public support is the primary source of the college's funds.

As a result of its financial interest, the Commonwealth has established control of the state colleges through the Department of Public Instruction. Since there are fourteen such institutions the Department and the Board of College Presidents coordinate certain activities common to all state controlled schools. In addition, each school has a board of Trustees which assists the President in administration. Other supervision and control come from such state agencies as the Council on Higher Education, the Auditor General, the Department of Property and Supplies and the General State Authority. Each state college has the support of many vital agencies whose resources may be utilized at any time.

The curricula at California are established in broad outline by the Department of Public Instruction by means of its several councils and study groups.

The special curricula are assigned to each college with California being assigned Industrial Arts, Special Education, Elementary Education, Secondary Education and Arts and Sciences.

Students may elect to specialize in any of these areas or their subdivisions. Other state colleges offer additional specializations.

In order that additional study opportunities might be made available the college sponsors Summer Tours which make available low cost travel-study trips for interested persons.

Another constantly expanding feature of the state college is its in-service program for teachers in the service area. Under the leadership of its several departments, the college sponsors evening programs for college students and experienced teachers wherein exchange of experiences result in a more effective college program and a stimulated public school program.

The faculty at California represents a geographic cross-section of the United States, a long list of colleges and universities, and many years of graduate training. In addition to instruction and extra-curricular activities, many members of the staff are engaged in writing and research in their field of interest.

Additional information on the faculty, administrative procedures, curriculum and student life are to be found in the appropriate division of the California Bulletin.

The California State College has had a history of continuous growth in stature, size and influence since its early days as an academy. Founded by the public spirited citizens of the borough of California in 1852 it became a normal school under a state charter and in 1914 was acquired by the Commonwealth of Pennsylvania and thus became a state owned institution.

In 1928, the State Council of Education granted to the college the right to offer a four-year curriculum in elementary and secondary education. In 1929, the school became the State Teachers College and has graduated students with the degree of Bachelor of Science in Education since that time. In 1959, the State Legislature voted to delete the word Teachers from the school's title. The College is now known as California State College.

The present prospects for future growth are exceptional. The college enrollment in 1967-1968 was 4,100 and a special program for teachers-in-service attracted more than 417 part-time students.

A program of graduate education, initiated in 1961, leads to the degree of Master of Education and has approximately 491 students currently enrolled. In addition, a series of workshops and conferences provide in-service training and professional

stimulation for the college service area including Washington, Fayette, Greene, and Somerset Counties.

A curriculum in Arts and Sciences (Liberal Arts) was approved and classes started in September 1962.

The college is located at California, Pennsylvania; a community of 7,500 persons located on the Monongahela River, 35 miles south of Pittsburgh; 16 miles from Uniontown; 25 miles from Washington, Pennsylvania; and 25 miles from Waynesburg. The college can be most easily reached over U.S. Route 40 which comes within two miles of California at Malden or over Pennsylvania Route 88 at Speers (near Charleroi).

The community is within easy reach of the lower Monongahela steel and coal producing region and is served by several bus lines. A network of secondary roads provide transportation for a large commuting population.

OBJECTIVES OF THE COLLEGE

California State College recognizes that an educated person must have a background of general knowledge, a mastery of his area of specialization, and adequate professional training. The California State College program is designed to provide this training through its competent faculty and a revised curricular and co-curricular program.

To secure these goals the faculty and administrative staff, after long and free discussion, have adopted the following resolution:

“The primary purpose for maintaining California State College, is to educate people for the teaching profession and in the Arts and Sciences. To accomplish this goal we seek: To provide the opportunity for a general education in those areas necessary to help students become responsible citizens and capable leaders in a democratic society. To develop their intellectual, social, physical, cultural, spiritual, and aesthetic potentialities. To prepare students by requiring a mastery of professional knowledge, skills essential to teaching and special proficiency in their areas of specialization. To lead the student to develop a deep and abiding commitment to the concepts, methods, and procedures of a democratic society. To help the student become a creative person capable of making critical judgments based upon knowledge and reason.”

To summarize: In educating a student at California State College, our goal is to help in the development of a person who will be generally educated, professionally oriented, creative, critical, and loyal.

Students who come to California, in addition to the standards established by the Admissions Committee, should possess a love of learning and a spirit of inquiry that will enable them to formulate questions, seek solutions to such questions and join with enthusiasm as others seek to achieve similar goals.

THE CAMPUS

Thirty-two buildings have been carefully arranged on a campus of 65 acres. It has been laid out by a landscape architect with hedges, shade trees, flowers and shrubbery. Many uncommon plants and trees are included in the collection which, besides adding beauty to the campus, offers a valuable laboratory for students in the biological sciences. Large scale improvements and additions to the campus plantings have been made recently.

COLLEGE BUILDINGS

MAIN HALL, the oldest building on the campus, was opened in 1870. This graceful old building currently houses most of the administrative offices for the college as well as providing classrooms. It also houses the Audio-Visual Center and the Faculty Lounge.

NORTH HALL was built in 1874 and is located just to the north of Main Hall. It now serves to house the offices of the Graduate Division, The Division of Arts and Sciences, Academic Guidance, Placement, College Infirmary and Colonial Room. The upper floors serve as a women's dormitory.

SOUTH HALL was completed in 1876. This building has been completely remodeled to house classrooms, offices for The Division of Teacher Education, offices for the Superintendent of the Buildings and Grounds and the IBM record keeping department.

DIXON HALL was built in 1907. This building now serves as a faculty office building and the basement houses the Southwestern Regional Curriculum Materials Center. Current plans call for a remodeling of the first floor to provide additional administrative offices.

SCIENCE HALL which is commonly called "Old Science Hall" was built in 1892 and was remodeled in 1938. This building contains classrooms and faculty offices.

THE NOSS LABORATORY SCHOOL was constructed in 1930 as a laboratory school for children from kindergarten through the sixth grade. This school serves the college as a center for student teaching, including observation and demonstration work. A Special Education Annex has recently been added.

THE INDUSTRIAL ARTS BUILDING was opened for use in 1939 and is located in the center of the campus. This building is one of the best planned and most complete of its kind in the country. It provides laboratories, classrooms, offices, storage rooms and shop facilities for printing, woodwork, painting, machine shop, sheet metal, forging, welding, auto mechanics, electricity, and ceramics.

HERRON HALL located on third street is used as a women's gymnasium. The first floor serves as a convenient snack bar which faces on the patio. The central portion of the building was built in 1930 and the classroom wings were added in 1932 and 1939. The gymnasium houses two gym floors and an excellent glazed tile swimming pool.

VULCAN HALL, located toward the center of the campus, was built in 1892 as a gymnasium. The upper floor of the building now serves as a student lounge while the lower floor houses the offices of the Student Activities Association and an automated snack bar.

JOHNSON HALL, located on Hickory Street, near the athletic field, the gymnasium, and the Industrial Arts Building, houses 125 men. It includes an apartment for the Dean of Men, beautiful lounges, recreation and service rooms. The building is fire-proof and modern in every respect; the furnishings throughout are entirely new. It was first occupied, Sept. 1952.

THE ROBERT McCURDY STEELE AUDITORIUM, a building named in honor of a former president, is located along Third Street on the eastern edge of the campus and has auditorium facilities for 900 persons. The building was dedicated in October, 1953. There is adequate parking space adjacent to the building.

COLLEGE BOOK STORE, occupies a structure in the center of the campus near the Snack Bar. Textbooks and student supplies are available in this newly renovated building.

THE J. ALBERT REED LIBRARY houses 50,000 volumes in conjunction with study lounge facilities for recreational reading, seminar space, exhibit areas, and a classroom for the teaching of techniques. An adequate annual budget maintains microfilms and microcard collections; a spokenword record collection, to which operatic and symphonic albums are being added; and an open-stack periodical room with individual study carrels to encourage concentrated and independent student effort. Professional librarians interpret the collection to the campus and account for substantial increases in holdings each year, particularly in the field of Slavic studies. Through service and facilities, the library seeks to anticipate and to satisfy the demands of higher enrollment and of expanded curriculum.

NEW SCIENCE, a new and modern Science Building completed in 1961 now serves the needs of the college. Well-planned chemistry, physics, biological science and elementary school science laboratories serves as the basis for expanding science program.

BINNS HALL, a modern, attractive dormitory for women opened in the fall of 1963, is located on the northern edge of the campus.

MCCLOSKEY HALL, a modern, convenient dormitory for men is adjacent to Johnson Hall and the recreational area.

NEW BUILDINGS

Several buildings are now under construction and others are in the final drawing stage.

MICHAEL DUDA WORLD CULTURE BUILDING (1968) with 20 classrooms, 3 lecture rooms and seminar and conference rooms is located at the corner of Third Street and College Avenue. This air-conditioned structure is one of the most modern and attractive buildings on campus.

GALLAGHER HALL. The new Dining Hall and Kitchen is located on Third Street near Steele Auditorium. It seats more than 1200. Spacious dining rooms, a modern kitchen and comfortable lounge areas are included in this new facility which was opened in 1967.

COOVER HALL (1966). This new industrial arts building includes four additional classrooms and drafting rooms as well as six new laboratories. This modern structure provides for in-

creased enrollment as well as additional advanced courses in industrial technology.

CLYDE HALL (High rise Men's Dormitory—1968). Built to accommodate 312 male students in the newest dormitory on campus. The seven-story structure includes 150 double rooms, counselor's rooms, study rooms, lounges and recreational area.

LONGANECKER HALL, built in 1966 houses 200 women. It is located on Third Street near the new dining hall and recreation area.

HAMER HALL. Built in 1964, includes six classrooms, a gymnasium, swimming pool and other modern athletic facilities. It is located near the center of campus.

BIOLOGICAL SCIENCE BUILDING. North Hall and a part of Main Hall will be razed to make room for the Biological Science Building. Flexibility is being designed into the building to accommodate students in many of the biological science disciplines. Six combination laboratories and lecture rooms and about two special laboratories will be included in this facility.

CALIFORNIA MEMORIAL UNION has been designed for all members of the college family—students, faculty, administration, alumni and guests. The three-story structure included lounges, bookstore, cafeteria, meeting rooms and recreation facilities.

ATHLETIC STADIUM to be located at the College Farm on Route 88 approximately one mile from the main campus and will seat 10,000 spectators. Football and track and field events, as well as physical education classes, will be scheduled for this facility.

MAINTENANCE BUILDING designed to house complete facilities for campus maintenance. It will be located at the site of the present maintenance shed. The two-story structure will include shop and storage facilities.

EDUCATION CLASSROOM BUILDING. This three-story structure will be located on Third Street near Steele Auditorium. The following departments will occupy this building: Educational Foundations, Elementary Education, Secondary Education, and for a period of time the Mental Retardation Department. The design includes classrooms, seminar rooms, laboratories, faculty offices and large group instruction rooms.

LEARNING/RESEARCH CENTER to be located on the Southeast side of campus near the dining hall. It will house our present

laboratory school as well as Audio-Visual Education Program and other allied areas.

COLLEGE PROGRAMS

California State College seeks to fulfill its obligation to the Commonwealth of Pennsylvania by offering a variety of educational programs designed expressly to fill the needs of those who desire additional education.

The college programs open to students include a program in General Studies for those persons not seeking a college degree, a program leading to the baccalaureate degree in the Arts and Sciences, and a program leading to the baccalaureate degree and to teacher certification in the Division of Teacher Education. In addition, the college provides a program of studies for students who seek training beyond the baccalaureate degree in the Graduate Studies Program.

GENERAL STUDIES PROGRAM

The General Studies Program of California State College is designed for adults in the college service area who wish to take college courses for personal satisfaction without degree attainment, or as a basis for admission to the Division of Arts and Sciences or of Teacher Education.

Students in the General Studies Program may, after the completion of 12 credits, petition the Dean of the Division of Arts and Science or of the Division of Teacher Education for admission to these respective divisions. If approved, the credits carried in the General Studies Program will be honored, if applicable to the major field or general education programs.

ARTS AND SCIENCES AND THE COLLEGE

Living in the 20th Century calls for toleration, understanding, imagination, empathy, breadth of comprehension, self-discipline—the traditional attributes of the liberally educated man. A cultural program designed to foster these qualities will prepare the student both for enriched personal experience and world citizenship. The Arts and Sciences program is designed to develop in students the capacity to understand, to make sound judgments, to communicate effectively; to grow aestheti-

cally and to prepare for intelligent and effective participation in the family, community, national and international order.

Accomplishment of these aims is sought by helping the student to:

1. Foster a continuing intellectual curiosity.
2. Develop an ability to think accurately on the basis of evidence.
3. Strengthen the skills for effective communication.
4. Appreciate other cultures through competence in their languages.
5. Increase the awareness of beauty through opportunities for achievement in one or more of the creative arts.
6. Develop a satisfactory code of personal behavior.
7. Improve and maintain mental and physical health.
8. Understand man's relationship to the total environment, both physical and cultural—to establish a concept of man's place in the universe and to encourage his emergence as an enlightened social being.
9. Apply these objectives to a field of specialization through depth of scholarship as well as to the broad fields of human knowledge.

TEACHER EDUCATION AND THE COLLEGE

The program for the training of teachers at California State College is not greatly different from any good program of higher education. It incorporates the aims of a broad liberal education, the techniques of professional education and the academic training in depth that is required for success in any field of endeavor.

Instruction at California State College is planned to help each student to acquire the ability to communicate with others, to appreciate the meaning of his historic past, to relate himself to the scientific world in which he lives and to develop aesthetically. The general education program is meant to be a quality program which will open the way to an interest in things intellectual and which will permit the student to continue to learn from study and experience long after graduation.

Professional education courses are the means whereby the prospective teacher, through a combination of lecture, discussion, and experience, develops the techniques for transmitting the concepts and information he acquires to the student he will later teach. Since individual differences are so great and since

learning takes place under a variety of handicaps and motivations, the good teacher is one who knows something of the problems of learning, motivation and individual differences and who adjusts them to the mutual advantage of the student and pupil.

The academic disciplines or areas of specialization provide the student at California State College with education in depth. It is the ambition of each department to provide training that will serve as a firm foundation for teaching, future study, or additional independent achievement. The completion of a college education does not provide the student with all answers but only with the insight by which he continues the search.

Briefly, work at California State College consists of three interrelated groups of courses; the basic or general education courses, the professional or "education" courses, and the specialized courses. Together they help to equip students with the breadth of knowledge, the power of understanding, and the analytical ability to become able members of the profession and worthy citizens.

GRADUATE STUDIES DIVISION AND THE COLLEGE

California State College offers work leading to the Master of Education degree with specialization in Biology, Chemistry, Elementary Education, Elementary Guidance, English, Industrial Arts Education, Mathematics, Mentally Retarded, Social Studies, Socially and Emotionally Maladjusted, and Speech and Hearing.

The program is available to qualified teachers-in-service and other graduate students who meet the standards approved by the college and the State Board of Higher Education. Graduate work is offered during evenings and on Saturdays during each regular session. Graduate work is also offered during the summer sessions.

Graduate work at California State College is especially designed for the classroom teacher and includes classroom, laboratory, clinical and research experience that will add breadth and depth to the preparation of the teacher. The program for each person admitted to the graduate school will be planned in co-operation with the adviser, the individual departments, and the graduate council and will be based upon the previous training and experience of the student. The graduate degree is meant to be a meaningful program for the classroom teacher and will be custom-made for each individual candidate.

Additional information including a listing of all the requirements will be found in the Bulletin of the Graduate School.

Admission To The College



Admission To The College

ENTRANCE REQUIREMENTS

Admission standards have been established by California State College for the purpose of ascertaining which prospective students will be most likely to succeed in the program of the college. In following this procedure, California State College maintains its obligation to those students who expect to be graduated from a school whose standards are worthy of respect. The entrance requirements also help to indicate to the prospective student his chances for college success.

The admission standards of the college are constantly being studied by the Admissions Committee and are being raised to satisfy the exacting demands upon the graduates from college.

Education is an important and exacting job which makes it necessary for the student to possess qualities and abilities of a special sort. The college student must be academically sound, must be physically able and must possess those character and personality characteristics which will enable him to represent the standards deemed desirable for our society today. In keeping with these needs, the admission standards are summarized as follows:

1. General Scholarship. An applicant for admission to the college should have been graduated from a four-year high school of accredited standing or from an institution judged by the Secondary Education Evaluation Division of the Department of Public Instruction of the Commonwealth of Pennsylvania to be the equivalent of the accredited four-year high school.
2. Aptitude and Ability Standards. All applicants should submit to the college evidence of ability to do college work as indicated by tests such as the College Board Examinations and the admission examinations. Students who score in the lower percentiles on such tests will not be admitted to the program at California State College.

The student must also demonstrate an adequate command of the English language and other evidence of academic performance. Students who evidence a lack of com-

petency to carry college work in English fundamentals or other subjects may be required to take remedial courses without credit when admitted to the college program.

3. Character and Personality. The candidate for admission to the college must be able to demonstrate that he possess the personality traits, interests, attitudes, and personal characteristics deemed necessary for an advanced education. The candidate must submit recommendations by the high school principal or guidance counselor of his secondary school for evidence of character and personality.

4. Health and Physical Condition. The applicant to the college must be able to demonstrate an absence of physical defects and emotional problems which would interfere with his successful performance of the duties of a student and of the duties of professional work in the teaching profession or in other professions. The student should submit a certificate of a physical examination made by the family physician reported to the college on the approved form obtainable from the college. This form will be checked by the college's examining physician.

The student may be required to undergo a reexamination and may be rejected by the college for any of the following disorders:

- (a) Incurable defects or diseases of the heart, lungs, kidneys, digestive system, nervous system, skin, organs of the special senses.
- (b) Defective vision of a marked degree.
- (c) Permanently impaired hearing.
- (d) Marked speech defects.
- (e) Unsightly deformities.
- (f) Marked obesity.

5. Admission to Special Curricula. A student seeking admission to a special curricula may be required to take an appropriate aptitude test in the special field in order to obtain further evidence of ability to succeed in this special field.

6. Admission to the college does not guarantee admission to the teacher education program. The standards for admission to teacher education are given in the teacher education section of this bulletin.

7. The speech status of entering students will be noted on their admission forms as clear or deficient.

Entering students with speech deficiencies will be reported to the Dean of Academic Affairs for assignment to

the Speech Clinic for remedial work. The Speech Clinic will make periodic reports concerning the student's progress to the office of the Dean of Academic Affairs.

ADMISSION PROCEDURES

Requests for the appropriate admission forms should be addressed to the Director of Admissions, California State College, California, Pennsylvania 15419.

The prospective student seeking admission to the college for the first time should obtain from the college the appropriate forms, have them completed in detail and should file these forms with the college's Director of Admissions. The forms required are:

1. Application and Personal Record Form. This form which is recognized by its blue color, should be filled in by the applicant. The applicant's signature is required on this form.
2. Medical Record Form. This yellow form is to be filled in by the student's personal physician.
3. Secondary School Record Form. The white form is to be filled out by the high school principal. This high school record must include a recommendation from the school and it must include a statement of the applicant's class standing. If the applicant is still attending high school, that school should complete the form including all current information.

The new applicant should also submit an application fee of \$10.00. This fee is not refundable. The fee should be attached to the blue application form which is the Application and Personal Record Form. This fee is the guarantee of the intention of the student to enter college for the term of the trimester designated. A money order for this amount must be made to the favor of the Commonwealth of Pennsylvania. Personal checks or cash are not acceptable.

The new applicant should arrange to take the Scholastic Aptitude Test section of the College Board Examination and should make arrangement to have the scores from this examination sent to the Director of Admissions.

TRANSFER FROM ANOTHER COLLEGE

The student who seeks to transfer into California State College should follow the procedures listed below:

1. Complete all forms required for the student seeking admission to the college for the first time and file these forms in the office of the Director of Admissions of the College.
2. Submit with the Application and Personal Record form an application fee of \$10.00 which is not refundable. The fee should be submitted in the form of a money order drawn to the favor of the Commonwealth of Pennsylvania.
3. The student should arrange to have all other colleges attended submit to the Director of Admissions copies of transcripts and statements of honorable dismissal. The statement of academic dismissal must indicate that the student has been cleared academically and personally. This information must be sent directly by the other college to the Director of Admissions, California State College, California, Pennsylvania.
4. The student should send the results of the College Board Examinations to the Director of Admissions.

TEACHERS IN SERVICE

Prospective students who are currently teachers in service only need to file the single admission form in order to be approved for part-time admission to the college.

POST-GRADUATES

Applicants for admission who are graduates from other colleges and who desire to attend California State College full-time in order to obtain certification for teaching purposes must complete and file with the Admissions Office the three basic forms and a copy of the official transcript from the other college attended. No admission test is required; however, a personal interview with the Assistant Dean of the Division of Teacher Education is required.

SUMMER SCHOOL ADMISSIONS

Students will be admitted to the California State College summer school program under the following conditions:

1. Students will be permitted to register for courses if they are regularly enrolled full-time or part-time students in good standing with the college.
2. Teachers in service will be permitted to register for

courses in the summer school program if they have filed the appropriate admission forms and had them approved by the admissions committee.

3. Students who wish to transfer into the college on a temporary basis from another college will be permitted to register for courses if they have the approval of the Dean of Instruction of their college and have the approval of California State College's admission committee.

4. Entering freshmen will be permitted to register for courses in the summer school program if they have been officially approved by the admission committee prior to registration.

ADMISSION OF OUT-OF-STATE AND FOREIGN STUDENTS

Out-of-State and foreign students may be admitted to California State College when their admission and instruction does not interfere with the admission and instruction of students who reside in the Commonwealth of Pennsylvania. In the case of foreign students, admission will depend upon acceptable clearance from the education authorities of the countries concerned and the Department of State of the United States.

REQUIREMENTS FOR ADMISSION TO THE GENERAL STUDIES PROGRAM

The requirements for admission to the General Studies Program are as follows:

1. The applicant must be 21 years of age or older.
2. The applicant must be a graduate of high school or hold the Department of Public Instruction equivalent diploma.
3. The applicant must live in the service area of college and he must be able to commute to the college for classes.

The student who has been approved for the General Studies Program, is eligible to take the college courses open to entering full-time students.

TRANSFER OF GENERAL STUDIES CREDITS TO THE REGULAR COLLEGE PROGRAM

Students in the General Studies Program may, after the

completion of 12 credits, petition the Dean of the Division of Arts and Sciences or the Dean of Teacher Education for admission to these respective divisions. If approved, the credits carried in the General Studies Program will be honored, if applicable to the major field or general education programs.

ADMISSION PROCEDURES FOR THE GENERAL STUDIES PROGRAM

Students seeking admission to the college in the General Studies Program should follow the procedure given below.

1. Submit to the Director of Admissions, California State College, California, Pennsylvania the following forms:

Application and Personal Record Form. This form which may be recognized by its white color is to be completed in full by the applicant. A signature by the applicant is required on this form. An application fee of \$10.00 is to be submitted with this form.

Record of Secondary School Work. This form must be completed by the high school principal or guidance counselor.

2. It is necessary to send an application fee of \$10.00 along with the application form. This \$10.00 fee is not refundable and is not credited for fee payments.

The student should submit this fee in the form of cashiers check or money order for the exact amount. It should be drawn to the favor of the Commonwealth of Pennsylvania. Cash or personal checks are not acceptable.

3. After all application forms are filed with the office of admissions and the application fee has been paid, the admissions committee will evaluate the application and inform the applicant of his status in relation to admission to the General Studies Program.

TRANSCRIPTS OF CREDITS

Official transcripts, obtainable through the Registrar's Office upon the written request of the student, will be sent to the State Department of Public Instruction for use in obtaining certification or to an institution to which credits are to be transferred.

Only the work completed at California State College will be included in the transcript. Work taken at another institution

would be certified directly from that institution.

One copy of a transcript of credits earned at California State College will be issued free of charge. A charge of one dollar is made for a second and for each additional transcript. This fee of one dollar will be waived for transcripts that are "to be used in connection with induction, enlistment, or advancement in the armed forces."

Transcripts cannot be prepared during the last week of trimester or during the registration period. Persons planning admission to graduate school or to transfer to another collegiate institution should file the request for transcript with the Registrar at least one month before the end of the trimester. Women who have married since leaving college should give their maiden name as well as their married name.

REVISION OF THE ADMISSION PROCEDURES AND REQUIREMENTS

The admission program and the testing program of California State College shall be reviewed each year by the College Admissions Committee. Any proposed changes developed by the Admissions Committee will be submitted to the Administrative Council and the Faculty Senate for approval.

ADVANCED PLACEMENT PROGRAM

High schools which have the proper facilities may find it possible to offer their superior students the opportunity to work at a level higher than the normal curriculum in the secondary school one which is the equivalent to freshman courses at the collegiate level. California State College considers this an admissible approach to meeting the intellectual needs of the student and the college is prepared to grant advanced placement credit—i.e., college credit—to students who have taken such advanced work in high school, provided that they demonstrate through success in formal examinations their knowledge in the subject concerned. The most convenient method of examination is offered through the Advanced Placement Program of the College Entrance Examination Board. Students granted advanced placement thus will be afforded the opportunity to accelerate or enrich their undergraduate programs of study.

**Academic Procedures
And Regulations**



Academic Procedures And Regulations

The student must assume responsibility for knowing the rules and regulations of the college in regard to the academic procedures. Faculty advisors are made available to assist the student in planning an academic program but they cannot be expected to relieve the student of his responsibility for knowing the regulations relating to academic procedures including the requirements for graduation.

DEGREES OFFERED

California State College offers two different baccalaureate degrees which are:

- Bachelor of Arts
- Bachelor of Science in Education

A minimum of 128 trimester credit hours must be earned for a baccalaureate degree at California State College. Some curriculums within the degree programs of the college have established credit hour requirements somewhat greater than the minimum of 128 trimester credit hours.

CREDITS

Courses are recorded in terms of "trimester hours of credit." A trimester hour of credit represents one hour a week or recitation or lecture throughout a trimester of sixteen weeks. In laboratory courses, however, a ratio of two, three, or four hours of laboratory work for one credit prevails, according to the department. Varying amounts of required outside work are also assigned; so that, where the total number of credit hours is stated to be 15 or 16, the number of clock hours a week may total as high as 30, 32 or more. Descriptive titles and credit values of courses appear in the section of this bulletin devoted to course offering.

RESIDENCE REQUIREMENTS

Students in all curriculums must complete a minimum of thirty-two credits, in courses given by the College, at California State College. These thirty-two credits may be taken on the campus in regular day, evening, or Saturday classes during their last two trimesters' work prior to graduation.

CITIZENSHIP REQUIREMENTS

For a student to be eligible for a teaching certificate, the student must present evidence of citizenship of the United States of America. If the student is not a citizen of the United States at the time of admission to the college, he is required to become a naturalized citizen before he may be granted a Teacher's Certificate. Students who are not citizens of the United States may be awarded the Bachelor of Science in Education or the Bachelor of Arts in the Division of Arts and Sciences.

NORMAL SCHOOL CREDITS

All persons who were graduated from a State Normal School prior to September 1927, and who have a four-year secondary school education will be granted not more than 68 trimester hours of credit toward a degree.

Students who were graduated from a State Normal School before four years of secondary school preparation were required and who still have not satisfied this requirement should apply to the Secondary Credentials Division of the Department of Public Instruction, Harrisburg, Pennsylvania, for information about obtaining a secondary school equivalent certificate, which, when issued, will be accepted by the college for admission to a degree curriculum.

CREDITS EARNED BY EXAMINATION

A student may request an examination in any subject matter in which he registers for the purpose of securing an exemption from taking a course. Grades received under this provision will be pass (P) or fail (F).

A student may be given credit for a course in which he registers and in which he demonstrates competency by taking a qualifying examination. Grades received will be pass (P) or fail (F) under this provision.

Applications for the above mentioned examinations should be made to the Dean of Academic Affairs within two weeks of the time of registration.

TRANSFER OF CREDITS FROM ANOTHER COLLEGE OR UNIVERSITY

Students who have taken work at another accredited college or university and who merit a letter of honorable dismissal from that institution are eligible to make application to California State College with advanced standing. Credit for advanced standing is not allowed for work done by correspondence, nor will credit be given for courses which are not equivalent to those required or for courses completed at other colleges or universities in which grades below C were earned. All credits of students who apply for admission with advanced standing must be approved by the Dean of Instruction. Credits from colleges not approved by the Department of Public Instruction of Pennsylvania or other accrediting organizations will not be accepted toward either certification or graduation.

CORRESPONDENCE COURSES

Credits for correspondence courses are not accepted by California State College. An exception to this rule is made for members of the Armed Forces who submit to the college records of credits earned through the United States Armed Forces Institute, Madison, Wisconsin.

QUALITY POINT SYSTEM

As there is a quality standard for passing each course so there is a standard for completing a curriculum. This is made possible by the establishment of a quality point system which states that students cannot be graduated by getting merely passing grades in each course.

The quality point system requires that a student, before he can be graduated, must complete all required and elective courses in the curriculum which he is pursuing, have the minimum number of credits required by his curriculum, and earn a quality point average of at least 2.0 (C) for all courses in which grades other than P are given. Only courses completed at this college are included in the quality point computation.

Each credit of work completed at California State College is awarded quality points which are computed according to the following scale; each credit of A grade is multiplied by 4, B grade by 3, C grade by 2, D grade by 1, and F grade by 0. Courses dropped without the consent of the Dean of Academic Affairs shall constitute an F. Courses in which P grades are given do not count in quality point computation. Courses transferred from other approved collegiate institutions are not counted in the quality point average.

COMPUTATION OF QUALITY POINTS

1. A student's quality point average will be determined by dividing the number of credit hours taken into the total number of quality points earned.
2. When a course is repeated, this second grade received will be counted in computing the total quality point average of the student.

GRADING SYSTEM

A—indicates superior attainment

B—indicates attainment above the average

C—indicates average attainment

D—is the lowest passing grade

F—indicates failure

P—indicates passing. (Used for required, preparatory courses, orientation, and student teaching courses.)

Inc.—indicates incomplete work

W—indicates withdrawal from a course

The symbol, Inc., is not used unless the student has been in attendance throughout the trimester or session and because of personal illness, covering two or more consecutive weeks, the student is not able to meet the requirements of the course at the end of the session. It indicates that as the work is incomplete the final grade is being withheld until the student fulfills all the requirements of the course. The following conditions govern an Incomplete:

1. It must be removed by arrangement between the student and the instructor in the session, either trimester or summer, immediately following.
2. After the lapse of one term, trimester or summer, the

grade may be changed only upon approval of the Dean of Academic Affairs.

3. After the lapse of one year, the incomplete grade automatically becomes a grade of F and cannot be removed without the student's repeating the course.

GRADE REPORTS

Mid-term grade reports are reports of grades for students doing failing or low quality work at the end of the eight week period. These reports are submitted by the faculty to the Director of Academic Guidance. Students for whom grade reports are made, are notified of their low grades and when deemed necessary, this information is sent to the student's parents.

The final trimester grades are mailed to the student's at their home address.

EVALUATION OF CREDITS

An evaluation of credits is considered valid only for the year in which the distribution is made. The situation exists because of frequent changes in regulations governing the value of credits and in the requirements for certification and graduation made by the State Department of Public Instruction, the State Council of Education, and the Board of Presidents of the State Colleges. Students are urged to keep themselves informed about their credit standing by occasional inquiry, other than at registration periods, at the office of their Curriculum Director.

STUDENT LOAD

Students who wish to carry more than a normal schedule of 15 or 16 trimester hours must have earned the right by reason of a high quality point average in the trimester completed prior to registration. Exceptional cases must obtain permission from the Scholarship Committee or the Dean of Academic Affairs at the time of registration. Under no circumstances will excess credits be honored, whether taken in this college or in another institution without the approval of the Committee or the Dean. In reviewing applications to carry excess credits, the Committee or the Dean will give consideration not only to the academic standing of the applicants but also to their health records and extra-curricular activities.

CLASSIFICATION

Students are classified as freshmen when they have earned 32 or fewer credits; as sophomores when they have earned 33 to 64 credits inclusive; as juniors when they have earned 65 to 96 credits inclusive; and as seniors when they have earned 97 or more credits.

The credits used to determine the classification of students include those earned at this college and those accepted by the college from other accredited institutions on the basis of official transcripts.

HONOR CREDITS

Students will be given approval to carry honor credits according to the following quality point average based on the grades of the previous trimester:

QUALITY POINT AVERAGE	TOTAL CREDITS SCHEDULED
3.00 to 3.49	17 credits
3.50 to 4.00	18 credits

College rules, in keeping with regulations of the State Department of Public Instruction, sanction only one credit a week during a summer session; that is, six credits during a six weeks' session, twelve credits during a twelve weeks' session and sixteen credits during the summer trimester.

Students are advised not to take more than one credit a week during summer terms at other colleges if they expect to use credits thus earned toward degrees from this college. Students planning a summer session at another college should consult the Dean of Academic Affairs or their Curriculum Director before registering.

SUMMER SESSION

To accelerate his program, a student should plan to spend several summers in full attendance. It is possible for a student to earn 16 credits in each summer trimester of full attendance and for this purpose, a large and active summer program is provided. Generally speaking, all required courses are offered each summer as well as a representative group of elective courses in every area of specialization. Full information may be obtained

from the *SUMMER SESSION BULLETIN* issued in the Spring of each year. Write to the Dean of Academic Affairs, California State College, California, Pennsylvania.

SATURDAY AND EVENING PROGRAMS

Part-time students or teachers-in-service may utilize Saturday and evening courses designed to meet the needs of a limited number of persons unable to attend regular classes.

ADVANCED STANDING PROGRAM

Formal admission to Advanced Standing is a requisite for continuing the program in the college. This marks the time when the professional work is intensified. Fourth trimester students will make application for admission to Advanced Standing, for which they are required to meet the following qualifications:

1. The Scholastic record must be a 2.0 average or better for the first two years of work taken by the student.
2. A 2.0 average must be attained in Communications I and Communications II (Composition I, II and Speech I, II) or the student must make a score equivalent at least to the 21st percentile on the STEP Test.
3. Adequate background as measured by the STEP series of the Sophomore Tests in selected areas must be shown. A student whose average score in all areas is below the 21st percentile will be required to pass a selected course in his area of deficiency.
4. A satisfactory recommendation of the Counseling Service Committee is required of each applicant.
5. For students in the Teacher Education Division, satisfactory evidence of physical stamina, good posture, and freedom from physical defects that may interfere with the duties of a teacher must be presented.
6. The voice must be pleasing and free from objectionable qualities. A student who has failed to pass the speech test because of either voice or speech defects is required to take correction work in the College Speech Clinic until his deficiencies, if remediable, have been overcome. Evidence of his having reached a satisfactory speech standard must be included in his record at the time application is made for Advanced Standing.

Credentials will be examined by the Director of Academic Guidance and the decisions will be reached on the basis of all evidence available.

Students who fail to meet the requirements of Advanced Standing may be given two consecutive sessions with a minimum of 12 semester hours each to remove the deficiency. If, however, the student fails to remove the deficiency by the close of the first trimester, he will be placed on a limited schedule during the second trimester.

ADVISORY SYSTEM

The college gives special attention to the new student through interviews, counseling, and testing. Efforts are made to appraise the interests and abilities of each student. Results of these data and other records are available to all counseling personnel concerned. While the whole faculty assists, upon request, with the guidance program, certain members have been assigned the following responsibilities:

1. The Dean of the Faculty and Academic Affairs, the Division Deans, the Director of Academic Guidance, and Directors of Curriculum assume responsibility for educational guidance, selection of curriculums, course requirements, certification requirements, and student load.
2. The Director of Academic Guidance administers the testing program and works with students who have academic difficulties.
3. The Deans of Personnel are responsible for social adjustments: housing, organization of commuting students, religious activities, social activities, and development of social programs.
4. Director of Student Activities establishes and maintains the master calendar of co-curricular activities, coordinating this program with the curricular program of the College. Through the student activities fund he serves as an advisor to the student government in determining and carrying out the request of student body activities. The scheduling and planning of activities also falls in the realm of the Director's office.
5. A Veteran's Clerk has been designated as Veteran's Advisor to deal with special problems relating to veterans.
6. A Group Guidance Meeting is held each trimester to advise and present up-to-date and adequate information to

the entire student body on curriculum, certification, schedule, advanced standing, and student teaching. Each department then meets regularly with its majors and provides individual advisement of these students.

7. Health guidance is the primary responsibility of the resident nurses and college physician.

SCHOLARSHIP AND ACADEMIC STANDARDS

PROBATIONARY STATUS AND ACADEMIC DISMISSAL

1. First Trimester freshmen who earn a quality point average of less than 1.75 will automatically be placed on academic probation for the following trimester.
2. Freshmen who earn a quality point average of less than 1.00 during their first trimester will be placed on Second Probationary status. Students, except first trimester freshmen, who do not earn a quality point average of 1.00 will be dismissed from the College.
3. Students, other than first trimester freshmen, who earn a quality point average of less than 2.00 during the trimester will automatically be placed on academic probation for the following trimester.
4. Students who earn a quality point average of less than 2.00 during, or in any trimester after, the first academic probationary period may be placed on a limited schedule under the supervision of the Director of Academic Guidance. Students who earn a quality point average of less than 2.00 during or in any trimester after the second academic probationary period will be dismissed from the College. An appeal for readmission may be reviewed by the Director of Academic Guidance.
5. Students who earn a quality point average of 2.00 or better for the trimester of academic probation will be considered clear students the following trimester.
6. Readmission to the College is not automatic, except in case of a student whose cumulative quality point average is 2.00 or higher. Each case will be reviewed by the Director of Academic Guidance and/or an Appeal Board.

READMISSION PROCEDURE

1. All requests for readmission to College must be made in writing to the Director of Academic Guidance.

2. Requests for readmission may be reviewed by a special committee consisting of:
 - (a) a faculty member of the student's choice.
 - (b) one of the personnel deans.
 - (c) the department head concerned or the student's advisor in the department.
 - (d) the division dean.
 - (e) the Director of Academic Guidance.
3. A majority vote of the committee is required for the re-admission of the student who filed the request.
4. The college reserves the right to refuse the privilege of further attendance to a student who fails to meet the academic standards.

WITHDRAWALS FROM COLLEGE

If a student should find it necessary to leave the college during a trimester, he should confer with the Dean of Academic Affairs before discontinuing attendance at classes. During this conference, if it is found that the student should not continue in college, official withdrawal forms must be filed in the Registrar's Office. Students who leave the college without following this procedure will find that failing (F) grades will be recorded for each course in which he is registered and his future status as a student at this college will be placed in jeopardy. Students are permitted to withdraw up to the week of final examination by following the above mentioned procedure.

ADDING AND DROPPING COURSES

Students are permitted to add courses the first week of a trimester after registration days. Permission is granted by the Dean of Education or the Dean of Arts and Sciences. Students on academic probation may drop courses with the permission of the Director of Academic Guidance.

Students may drop courses during the first six weeks without penalty. Permission is granted by the Dean of Education or the Dean of Arts and Sciences. Students on academic probation may drop courses with the permission of the Director of Academic Guidance.

After the first six weeks withdrawals from individual courses

are permitted with a grade of WP or WF; WP carries no penalty
-WF carries penalty.

HONORS

DISTINGUISHED SERVICE AWARDS

The Distinguished Service Awards are granted to the most outstanding woman and the most outstanding man of each graduating class. The awards are made on the basis of activities, character, citizenship, leadership, and personality. The election of persons to receive the awards is through a committee composed of members of the faculty.

SCHOLARSHIP AWARDS

The Scholarship Award is given to the person making the highest academic average in each of the curricula of the college.

COMMENCEMENT HONORS

Commencement Honors are awarded to a limited number of students in the graduating class. Not more than one-eighth of the class may receive honors. A minimum of two (2) years residence is required to receive commencement honors.

Highest Honors—Quality Point Average 3.75 to 4.00—no D or F grades.

High Honors—Quality Point Average 3.50 to 3.74—no D or F grades.

Honors—Quality Point Average 3.25 or better—no F grades.

This recognition can be bestowed only upon evidence of unusual ability as shown scholastic records and in keeping with standards established and approved by the faculty.

TRIMESTER HONORS

Trimester Honors (The Dean's Honor List) are awarded on the basis of quality point average at the end of the trimester as follows:

Highest Honors	4.00
High Honors	3.50-3.99
Honors	3.00-3.49

SUMMARY OF GRADUATION REQUIREMENTS

1. A minimum of 128 trimester hours, including the satisfactory completion of all required courses, is necessary for graduation, together with a general quality point average of 2.0 for all courses in which grades other than P are given. Quality points are not computed for work done at other colleges or universities and only for courses taken at the college after 1931. Specific curriculum requirements may exceed the 128 credit minimum.

2. For students in the Teacher Education Curriculums, the student must be pronounced physically fit by a physician legally qualified to practice medicine in the United States.

3. For students in the Teacher Education Curriculums, the teaching ability of the student must be satisfactory to the Dean of Teacher Education regardless of other credits.

4. No student will be graduated with less than two years of bona fide residence. The last 32 credits needed to complete a curriculum must be taken while the student is in actual attendance at the college.

5. Students who have not paid all bills previously incurred shall not be permitted to re-enroll, to be graduated, or to have credits sent to other institutions or to the Department of Public Instruction until such accounts have been paid. The records of such students are "Sealed" and no information will be given until cleared.

6. All credentials for graduation, including certificate application and transcripts of credits from other institutions, must be filed at times specified by the Registrar. If this requirement has not been met, graduation and certification will be postponed to the following graduation date.

7. Students must register with the Placement Service by filling out in every detail the registration form supplied by the Placement Service.

8. Attendance at the commencement exercises is necessary, unless unusual circumstances warrant graduation in absentia. This permission is granted only through the President of the College.

Student Fees And Expenses



Student Fees And Expenses

The uniform schedule of fees, deposits, and repayments established for the State Colleges is subject to change when authorized by the Boards of Trustees of the State Colleges and approved by the Superintendent of Public Instruction of the Commonwealth of Pennsylvania. Such changes in college fees may be made without notice.

ENROLLMENT FEE

The enrollment fee covers registration, the keeping of student records, library services, student welfare and health services (with the exception of extra nurses and quarantine) and laboratory fees.

For full-time students who are residents of the Commonwealth of Pennsylvania the enrollment fee is as follows:

Arts and Sciences	\$175.
Elementary Education	\$175.
Secondary Education	\$175.
Special Education	\$185.
Industrial Arts	\$193.

Part-time students who are residents of the Commonwealth of Pennsylvania will pay the following enrollment fees:

Arts and Science	\$15.00 per trimester credit hour
Elementary Education	\$15.00 per trimester credit hour
Secondary Education	\$15.00 per trimester credit hour
Special Education	\$15.00 per trimester credit hour
	plus \$ 5.00 per session
Industrial Arts	\$15.00 per trimester credit hour
	plus \$ 1.00 per week

The minimum charge for a part-time student is \$45.00 plus special fees.

ENROLLMENT FEE FOR OUT-OF-STATE STUDENTS

Full-time students whose legal residence is outside of the Commonwealth of Pennsylvania shall be charged at the rate of \$25.00 each trimester credit hour.

ROOM AND BOARD EXPENSES

The room and board expenses cover the cost of living in the college dormitory and of meals in the college dining hall. No reduction in these rates will be made for a student who absents himself from the dormitory or dining hall for several days at a time.

The cost of room and board for each trimester is \$272. Of this amount, \$128 is charges for room and \$144 is charged for meals.

Part-time students may arrange to live in the college dormitory and eat at the college dining hall on a weekly basis by paying \$17 per week.

Fees for room and board or for board only, may be paid quarterly. The first payment of \$136 for room and board or \$72 for board only must be paid upon the completion of registration. The balance will be due on or before the end of the first eight weeks of the trimester.

STUDENT ACTIVITY FEE

Each student enrolled on a full-time basis shall be charged a Student Activity Fee of \$20.00 per trimester. This fee which is under the control of the Student Activities Association has been approved by the Board of Trustees for California State College. The fee covers membership in the Student Activities Association, admission to lectures and entertainments sponsored by the association, admission to athletic contests, subscription to the college newspaper and certain other activities defined by the Student Congress.

Part-time students, including those taking extension courses, may secure the benefits of the activity program by paying the Student Activity Fee.

Payment for this fee should be made to the Student Activities Fund. This fee is due on the date of registration.

REGISTRATION AND THE BILLING OF FEES

At announced times preceding the beginning of each new trimester or session, the college holds scheduling and registration sessions. All students planning to attend classes during the up-

coming trimester are expected to plan a schedule with an adviser's assistance and to complete the registration forms. Students are billed for fees which are due as soon as registration is completed and the student is expected to pay on or before the announced due date.

LATE REGISTRATION FEE

Each student who enrolls after the date officially set for registration, will be charged an additional enrollment fee of \$1.00 per day until he is in regular attendance, provided that the total amount of the Late Registration Fee shall not exceed the amount of \$5.00.

SPECIAL FEES

When the college provides some service for the student not covered by the Enrollment Fee or the Student Activities Fee, a special fee may be charged.

DAMAGE FEE: Students shall be held responsible for damage, breakage, or loss and the return of college property.

INFIRMARY FEE: A boarding student who is ill is entitled to three days of infirmary service without charge. After that time, there will be a charge of \$1.00 per day for infirmary service.

Commuting students admitted to the Infirmary are charged \$3.00 per day from the time of admission. This fee covers board and nursing service in the infirmary.

In no case does the infirmary fee include special nursing care or medical service.

DEGREE FEE: A fee of \$5.00 must be paid by each candidate for a degree from California State College. A student shall not be permitted to complete graduation from the college until this fee has been paid. The fee is payable when the student has been notified by the Registrar that he is cleared for graduation.

TRANSCRIPT FEE: The first official college transcript of record is issued for the student without cost. A fee of \$1.00 is charged for each subsequent transcript.

PAYMENT OF BILLS

The Enrollment Fees, the Room and Board Fees, and the

Special Fees must be paid at the College Business Office. Upon payment, an official Revenue Receipt will be given to the student. Payment by check, bank draft, Express or Post Office Money Order made payable to the Commonwealth of Pennsylvania in the exact amount of the fees, is preferred.

The Student Activity Fee must be paid on registration day at the Office of the Accountant for the Student Activities Fund. Upon payment of the fee, an official Activities Receipt will be given the student. Payment by check, bank draft, Express or Post Office Money Order made payable to the Student Activities Fund in the exact amount of the fee, is preferred.

Book Store business is conducted on a cash basis. Payment by check, bank draft, Express or Post Office Money Order made payable to the College Book Store, is preferred.

DELINQUENT ACCOUNTS

All fees are payable in advance. No student may be enrolled or graduated, or receive trimester grade reports or receive a transcript of his record until all previous bills and fees have been paid.

A late fee of \$1.00 per day will be charged for the late payment of fees provided that the total amount of the late fee shall not exceed \$5.00.

REFUNDS

Refunds for fees will not be made to a student who has been dismissed temporarily, or who has been indefinitely suspended, or who has voluntarily withdrawn from the college. There shall be no refund of the advance registration deposit nor any part of this deposit.

Refunds of the Enrollment Fees and the Room and Board Fees may be made when the student has been forced to leave the college because of personal illness, if this illness is certified by an attending physician. Other causes for leaving college may be acceptable for the purpose of obtaining a refund of fees if these reasons are approved by the Board of Trustees of the College. The amount of the refund of the housing and enrollment fees will depend upon the amount of time that the student does not spend in the college.

Letters requesting refunds should be addressed to the President of California State College.

In order to withdraw from classes, dormitory, and dining hall, the student must first contact the proper college official. The officials to be contacted are as follows:

1. To withdraw from classes, contact the College Registrar.
2. To withdraw from the dormitory or dining room, contact the Dean of Student Affairs.

Any other method of withdrawal cannot be approved and charges for room and board will remain intact.

COSTS OF BOOKS

The estimated cost of textbooks is \$50.00 to \$65.00 a trimester for students in the Elementary, Secondary, Special Education, and Arts & Sciences Curriculums. Students in the Industrial Arts Curriculum may expect to spend \$90.00 for the trimester in which they take Introductory Mechanical Drawing, and \$65.00 each succeeding trimester. Students may purchase books, materials and other supplies through the College Book Store on a cash basis.

SUMMARY OF FULL TIME TRIMESTER FEES FOR DORMITORY STUDENTS

Arts & Sciences, Elementary and Secondary		Industrial Arts	
Enrollment Fee	\$175.00	Enrollment Fee	\$193.00
Room and Board	272.00	Room and Board	272.00
Activity Fee	20.00	Activity Fee	20.00
Special Education			
Enrollment Fee	\$185.00		
Room and Board	272.00		
Activity Fee	20.00		

FOR COMMUTING STUDENTS

Arts & Sciences, Elementary and Secondary		Industrial Arts	
Enrollment Fee	\$175.00	Enrollment Fee	\$193.00
Activity Fee	20.00	Activity Fee	20.00
Special Education			
Enrollment Fee	\$185.00		
Activity Fee	20.00		

FOR COMMUTING OR TOWN STUDENTS –
DINING ROOM ONLY

Arts & Sciences, Elementary and Secondary	Industrial Arts
Enrollment Fee \$175.00	Enrollment Fee \$193.00
Dining Rm. Only 144.00	Dining Rm. Only 144.00
Activity Fee 20.00	Activity Fee 20.00
Special Education	
Enrollment Fee \$185.00	
Dining Rm. Only 144.00	
Activity Fee 20.00	

SUMMARY OF PART-TIME STUDENT CURRICULUM FEE

Arts and Sciences, Elementary and Secondary—\$15.00 per trimester credit hour.

Special Education—\$15.00 per trimester credit hour plus \$5.00 per session.

Industrial Arts—\$15.00 per trimester credit hour plus \$1.00 per week.

The minimum charge for a part-time student is \$45.00 plus special fees.

Student Affairs And Services



Student Affairs And Services

All special services for students such as housing, food service, orientation, counseling and activities which are essentially non-academic in nature, are under the administration of the Dean of Student Affairs.

The principal administrative officials responsible to the Dean of Student Affairs are:

1. Dean of Men and his assistants
2. Dean of Women and her assistants
3. Director of Student Activities and staff members
4. Business Manager of the Student Activity Association
5. Director of Financial Aid
6. Director of Athletics
7. Director of Health Services

Students who need non-academic information, advice on general aspects of college life, or special help with personal problems should consult the appropriate person in the area of student affairs.

CAMPUS LIFE

A college student upon enrollment becomes a member of a special community. Although this community is organized primarily to support academic objectives, there are many opportunities for students to supplement their intellectual growth and to occupy their leisure time. Students who learn to budget their time wisely should be able to attain a satisfactory academic record and still participate in a variety of social and recreational activities outside the classroom.

A STUDENT'S RESPONSIBILITY

The opportunity to attend college should be highly valued. It is a special privilege—not a right. It is a challenge that will require a definite commitment and concentrated effort if the student is to profit from the experience.

The privilege of attendance is extended to those who willingly accept certain responsibilities with sufficient maturity and self-discipline. A student's primary responsibility is to make a serious effort to obtain an education according to acceptable standards of scholarship. A second, absolutely essential, student responsibility is to keep informed of college regulations and abide by them.

STUDENT CITIZENSHIP AND GENERAL CONDUCT

Student citizenship and conduct on the campus and elsewhere should reflect credit upon the college and its student body.

Any student whose attitude and conduct are incompatible with or antagonistic to the general objectives and regulations of the college cannot be permitted to remain in college.

Student behavior that has been judged unsatisfactory by college officials, or an appropriate judicial group, must be corrected or disciplinary action will be taken.

COLLEGE DISCIPLINARY AUTHORITY

The college maintains disciplinary authority over all of its students and reserves the right to suspend or dismiss any student for violation of college regulations or for conduct detrimental to the welfare of the student body and of the college.

ADMINISTRATIVE REGULATIONS

1. Use of Alcoholic Beverages: The possession or use of alcoholic beverages on college property, in fraternity or sorority houses, and off-campus living quarters of students is prohibited. Students are reminded that Pennsylvania law prohibits the use or possession of alcoholic beverages by those under 21 years of age.
2. Gambling in any form is prohibited on campus.
3. College matriculation and identification cards are for personal use only. They are valid only for the term in which the student is enrolled. The falsification of these cards, or the transfer of one to another person, is strictly prohibited. This restriction also applies to library and dining hall cards.

4. The possession or use of firearms, firecrackers, or other explosives, on campus or in buildings off-campus under college supervision, is prohibited.
5. Students are not permitted to tamper with fire equipment or to set off a fire alarm unless a fire has been detected.
6. Any student who contributes in any manner to the unlawful entry to any college building, or who has stolen or destroyed college and/or private property, will be subject to suspension from college.
7. Students are not permitted to make any purchases in the name of the college without written approval from the appropriate administrative official.
8. Every social event sponsored on or off-campus by an approved college organization must be registered at least 4 days in advance in the office of the Director of Student Activities, Dean of Men, and Dean of Women.
9. Main Campus Curfew: The Main Campus, including all buildings bounded by College Avenue, Third Street, and the driveway from Third Street adjacent to Hamer Gymnasium which leads to the student parking lot, is out-of-bounds to male students after 11:00 P.M. Sunday through Thursday, and after 1:00 A.M. on Friday, and 1:00 A.M. on Saturday, except on evenings when approved college functions are scheduled beyond these time limits or when special late permissions have been given.
10. College women students may not visit men in their living quarters without college approved chaperones. This rule does not apply to college dormitories where visiting privileges have been scheduled, or whenever an "Open House" has been declared by the college in conjunction with a special college event. This rule also applies to college men who may visit the dormitories for women and the sorority houses only during visiting hours.
11. Any disorderly or riotous demonstration of students, regardless of the intended purpose of the group, shall be considered a serious breach of acceptable student behavior. Students who participate in a demonstration resulting in disorderly, destructive, or riotous behavior will be held individually responsible for the consequences of their conduct.

Students who violate the above regulations will be subject to disciplinary action by the College.

THE STUDENT ACTIVITY PROGRAM

A well-rounded program of student activities, supervised by faculty sponsors and administered by a Director of Student Activities, provides numerous opportunities for valuable co-curricular experiences. In addition to intramural and inter-collegiate athletics, the activity program includes a variety of subject-related, special interest, social and professional organizations.

These activities enable students to meet new friends, widen their interests, improve personality, and develop talents for leadership.

STUDENT ACTIVITY FEE

Students enrolled in a trimester and scheduled with ten (10) or more undergraduate credits are required to pay an activity fee of \$20.00. College graduates and other special students who are enrolled in undergraduate courses in a trimester are not exempt from paying this fee.

Students enrolled in a six-week Summer Term, regardless of their classification and number of credits scheduled, are required to pay an activity fee of \$5.00.

The activity fee is due on the date established by the college for the payment of all college fees. Delinquent fees (\$2.00 on the \$20.00 Activity Fee and \$1.00 on the \$5.00 Activity Fee) will be charged for failure to pay by the beginning of a term. Checks should be made payable to the Student Activity Fund.

Activity funds are allocated by the Student Congress for a wide variety of student activities. Among these are: assembly programs, the varsity and intramural athletic program, a college yearbook, a weekly newspaper, the band, choir, and numerous class-related organizations.

STUDENT CONGRESS

Student Congress is the official agency to represent and to serve the student body. It has been developed to provide channels for communicating student ideas, suggestions, and opinions; to facilitate the planning and implementation of activities and programs to enrich campus life; and to create opportunities for experiences in the mature handling of responsibility.

The Constitution and By-Laws of Student Congress are published each year in the Vulcan Handbook for students.

SOCIAL FRATERNITIES AND SORORITIES

There are seven national fraternities and five national sororities at the college. These organizations, operating under the jurisdiction of their respective governing councils (The Interfraternity Council for men and the Pan Hellenic Council for women) and faculty advisors, offer students experience in independent group living and provide additional opportunities to develop traits of leadership and responsibility. All fraternities and sororities are subject to college regulations. Such organizations may be denied college recognition for failure to comply with college policy and rules of the College and Community.

COUNSELING SERVICES

In addition to the regular academic advisory system under the supervision of the Director of Guidance Services, students who have personal problems may obtain the counseling services of the Personnel Deans. The Dean of Men and the Dean of Women, together with their assistants, are available to assist students who have personal problems.

COMMUNITY CHURCHES

There are churches of the following denominations in California; Baptist, Christian, Methodist, Nazarene, Presbyterian, Roman Catholic, and Russian Orthodox. A Jewish Synagogue is also located in the Borough. Other religious denominations have churches in nearby communities.

Many of these churches provide activities of special interest to students of their faith.

The college provides an opportunity for students to fill out a religious affiliation card which is sent to the church of the student's choice. Students are not required however, to complete such a card or to reveal their religious denomination at any time.

Students are encouraged, but not required, to participate in religious activities of their own choosing.

HEALTH SERVICES

PURPOSES OF THE HEALTH SERVICE PROGRAM

In the interests of student welfare, the college maintains an infirmary to provide emergency first aid treatment for its students. The college also requires that all students undergo a physical examination by the college physician.

GENERAL INFIRMARY PROCEDURES

Students who become ill or who have been injured will be taken, if possible, to the College Infirmary.

Students who leave campus because of illness or injury will report to the college nurse for clearance to leave, and again report upon their return to receive permission to reenter classes and dormitories.

GENERAL INFIRMARY SERVICE

California State College does not collect a Health Service Fee from its students. Therefore, free, unlimited medical service cannot be offered to the student body. However the college does provide limited infirmary and nursing service for resident students and emergency infirmary service for all students subject to the conditions listed below.

INFIRMARY SERVICE FOR DORMITORY STUDENTS

Limited infirmary service is provided for students who reside in all college owned and college supervised dormitories. Free service is limited to three days, after which a charge of \$1.00 per day is made. Fees for a physician, special nursing care, and the cost of prescription drugs must be paid by the student.

INFIRMARY SERVICE FOR COMMUTERS AND TOWN STUDENTS

Commuting students, students who live in fraternity or sorority houses, or in homes in the community, may receive first aid or emergency treatment in the college infirmary. If patients are unable to leave the infirmary, they will be assessed \$3.00 per day in addition to the cost of their meals. Fees for a physician, special nursing care, and the cost of prescription drugs must be paid by the student.

TEMPORARY OCCUPANCY OF THE INFIRMARY

Student patients, dormitory or non-dormitory, who are unable to return to classes promptly—but in the doctor's judgement can be moved with safety—will be discharged from the infirmary and advised to return to their homes.

DOCTOR'S FEES AND AMBULANCE FEES

The college provides no free medical service by a physician. Fees for office, house, or infirmary calls by any physician must be paid to him by the patient. If ambulance service is necessary, fees must be paid by the patient to the ambulance service.

HEALTH AND ACCIDENT INSURANCE

Unless parents are sure that their children are fully covered by some type of family insurance plan; they should insure the student against accident and injury while at college. Such coverage will allay parental anxiety and simplify the payment of medical expenses in case of an emergency.

Information on an insurance policy for college students is made available at George Wood & Son, Real Estate Office, Wood Street, California, Pennsylvania.

CHRONIC DISEASES

Students suffering from chronic disease will be interviewed periodically by the college physician to determine the nature of treatment in progress and examined, if necessary, to determine the status of the disease.

The college may dismiss, or deny admission to, any student whose health would be detrimental to other college students.

STUDENT HOUSING

College housing has been established to provide safe, comfortable housing for students in an atmosphere conducive to serious study, relaxation, and congenial student relationships under competent adult supervision.

HOUSING POLICY FOR MEN

- A. All freshmen with the exception of commuters must reside in college dormitories. Sophomore resident men must accept assignment to college dormitories if space is available. (Only bonafide residents of a college-approved supervised fraternity house are excepted from this rule.)
- B. After the college dormitories have been filled, unassigned sophomores will be permitted to reside off-campus under college jurisdiction and subject to certain conditions.
- C. All dormitory residents must accept an assignment to the college dining room. Fraternity house and off-campus residents are not required to board in the college dining hall, but may elect to do so.

HOUSING POLICY FOR WOMEN

- A. All non-commuting women (including student teachers) must reside in college supervised dormitories or supervised sorority houses.
- B. All dormitory residents must accept an assignment to the college dining room.
- C. Sorority residents must accept an assignment to the college dining room unless the sorority maintains and operates on its own premises a kitchen and dining room in which food is prepared and served on a regular basis of 3 meals per day seven days per week to all sorority residents while college is in session.
- D. Exceptions to these rules based upon unusual circumstances may be made by the Dean of Women.

DORMITORIES

At the present time, California State College has three dormitories for men. Johnson Hall, built in 1952, provides comfortable living quarters for 123 men. McCloskey Hall was completed in 1963 and is a modern building designed to house 208 men students. Clyde dormitory, completed in 1968 is a new seven story structure to house 312 men students.

North Hall, Binns Hall, and Longanecker Dormitory located on the college campus provide safe and comfortable living quarters for over 500 women students.

In addition to the campus dormitories, the college supervises three off-campus dormitories for about 380 women students. Green Street, the Patrice, and the Stanton dormitories are privately-owned and are located within walking distance of the campus. The off-campus dormitories are reserved primarily for freshmen and sophomore women.

DORMITORY ACCOMMODATIONS

College dormitory rooms are furnished with single beds, desks, desk lamps, chairs, dressers, and closet space. The college provides pillows, pillow slips, and sheets. Sheets and pillow slips are laundered weekly.

Residents must provide their own blankets, towels, wash cloths, and soap. Residents may furnish their rooms with such optional items as window curtains, bed spreads, and small throw rugs.

PROCEDURE FOR OBTAINING DORMITORY HOUSING

- A. All requests for dormitory housing must be made in the office of the Dean of Men or Dean of Women.
- B. Dormitory Housing Application cards must be filled out. Once this has been done, instructions for the advance payment of fees in order to reserve dormitory rooms will be issued.

DORMITORY ASSIGNMENT PROCEDURE

All dormitory assignments are made by the Personnel Deans according to procedure which is designed to utilize fully the limited dormitory facilities of the college.

- A. Dormitory assignments will be made on the basis of:
 - (1) the student's date of acceptance by the college.
 - (2) the date of application for dormitory housing by the student.
 - (3) the payment of the dormitory deposit by a stated deadline.
 - (4) eligibility to reside in college dormitories as determined by the college.
- B. In compliance with Commonwealth law, there will be no discrimination in dormitory assignments on the basis of race, religion, or national origin.

- C. The college reserves the right to change, amend, or deviate from its regular assignment procedures as the circumstances warrant.

ADVANCE DORMITORY DEPOSIT

Students who request housing in any dormitory must pay a \$50.00 room deposit in advance. No room reservations will be made unless this deposit has been paid by the deadline. Late payments will only be accepted if vacancies exist. The college reserves the right to refuse a deposit from a student who is not eligible to reside in a dormitory.

This deposit will be applied to a student's total housing fee. With the exception of academic or disciplinary dismissals, this deposit is *non-refundable*.

DORMITORY REGULATIONS

Specific regulations pertaining to conduct, use of facilities, safety procedures, care of property, and enforcement are issued to all dormitory residents.

Dormitory councils and student proctors, under the supervision of the Personnel Deans, work to enforce dormitory regulations for the welfare of all residents.

A student may be expelled from, or refused admission to college dormitories if his conduct in the dormitory, on campus, or elsewhere, is deemed unsatisfactory.

No refund or credit of the dormitory and dining hall fees will be granted to a student who has been expelled from a dormitory or the dining hall for unsatisfactory conduct.

DORMITORY DAMAGE

Residents are responsible for the condition and care of their rooms, equipment, and furnishings. Charges for damage beyond normal wear and tear will be assessed against occupants jointly, unless personal negligence or responsibility can be proved. Charges for damages to a corridor or other public area will be assessed against all residents of the dormitory. All damage charges must be paid before the residents receive their transcripts or clearance to register for the next trimester.

VACATING COLLEGE DORMITORIES

Students are not permitted to remain in dormitories when the college is not in session. Residents will be notified in advance of the official date for the closing of all college dormitories.

OFF-CAMPUS HOUSING FOR MEN

Information on off-campus housing for men may be obtained in the office of the Dean of Men.

Off-Campus Housing Permits will be issued to those who are eligible to reside off-campus. Housing Agreements, supplied by the college, must be signed by the student and the landlord. The landlord retains one copy, and the student keeps one copy for the protection of both parties.

Students who reside off-campus are under the jurisdiction of the college. They will be required to comply with all college regulations on student conduct and any borough ordinances applicable to them.

College housing policy and regulations are subject to change at any time. Any exception to college policy must be approved in writing by the Dean of Men or Dean of Women. Students who refuse to comply with college housing regulations are subject to disciplinary action.

COMMUTER HEADQUARTERS

A Snack Bar and limited lounging and recreation space are provided in the Vulcan Hall and Herron Hall. Limited space for study and some lockers are available for women in the commuter's room in North Hall; for men in Dixon Hall.

DINING FACILITIES

DINING HALL POLICY

GENERAL REGULATIONS

- A. Dining Hall cards are for personal use only. They are not to be loaned, or sold, to anyone.
- B. If a Dining Hall card has been lost or stolen, the loss should be reported immediately to the Dining Hall Manager.

POLICY FOR DORMITORY STUDENTS

Residents of all college operated or supervised dormitories are required to board in the college dining room.

POLICY FOR NON-DORMITORY STUDENTS

Students living off-campus may request assignments to the college dining room. Such assignments are made for one full trimester and may be terminated only for exceptionally urgent reasons. Students in any category who take their meals in the dining room are subject to all dining room regulations.

DORMITORY AND DINING HALL FEES

The housing fee (room and board) for residents of dormitories on campus is \$272.00 per trimester. This fee is payable in advance to the *Commonwealth of Pennsylvania*.

Students assigned to privately-owned dormitories off-campus will pay their room rent (\$128.00 per trimester) directly to the dormitory manager after they move into the dormitory. Specific instructions are issued to these residents in advance to the *Commonwealth of Pennsylvania*.

Fees will not be accepted from students unless they have followed college instructions.

WITHDRAWALS FROM A DORMITORY AND/OR DINING ROOM

When a student accepts a dormitory assignment, he enters into a contract for one full trimester. Withdrawals from a dormitory and/or dining room during a trimester are permitted only for exceptionally urgent reasons such as: illness, injury, severe financial hardship, or an approved withdrawal from college. (Requests to commute, live in town or in a fraternity house are not considered urgent reasons.)

Credit for the unused portion of the housing and dining room fees will be given only in exceptional cases as listed above, or in case the withdrawing student can be replaced immediately. Requests for credit or refunds must be presented in writing to the Dean of Student Affairs. These requests will be submitted to the College President and the Board of Trustees for final approval. Credit will not be given or refunds made if this procedure is ignored.

STUDENT FINANCIAL AID

Students who lack sufficient funds to meet minimum college expenses should consult the Director of Financial Aid in room 208, Dixon Hall. Assistance is available in the form of part-time employment, scholarships, grants, and loans.

ELIGIBILITY

While eligibility requirements vary according to the type of financial assistance, the following statements generally apply as basic requirements for all applicants:

1. An applicant must be enrolled, or accepted for enrollment, as a full-time, undergraduate student.
2. Evidence of financial need must be provided by the student. Incomplete applications will not be reviewed.
3. Applicants must be in good academic standing. In cases of extreme financial hardship, exceptions may be made by the Director.
4. Applicants must be citizens of the United States, or declare their intentions to become citizens.

HOW TO APPLY FOR FINANCIAL AID

1. Obtain an application from the Office of Financial Aid. Complete this application and return it to the Director's Office: Room 208, Dixon Hall, California State College, California, Pennsylvania 15419.
2. File a Parent's Confidential Statement with the College Scholarship Service, Box 176, Princeton, New Jersey. (Note: This form may be obtained by the applicant at his secondary school or from the Director of Financial Aid.)
3. Applicants are required to inform the Director of Financial Aid of any financial assistance from sources other than California State College.

APPLICATION DEADLINES

1. Applications for the Summer and Fall Trimesters—due March 1.
2. Applications for the Spring Trimester—due July 1.
3. Late applications will be considered only to the extent that funds are available.

GENERAL CONDITIONS OF ACCEPTANCE OF FINANCIAL AID

All recipients of financial aid are required to comply with the following conditions:

1. Funds must be used only for the payment of expenses directly related to college attendance.
2. Financial assistance may be terminated for (a) an unsatisfactory academic record, and (b) unsatisfactory conduct.
3. Financial assistance will be automatically terminated if the recipient withdraws from college.

Note: Additional conditions may be required depending upon the specific type of financial aid granted.

RENEWAL OF FINANCIAL AID

1. A Renewal Parents' Confidential Statement must be filed annually before the deadline established by the college.
 - (a) This is necessary whether or not the Statement had been filed previously.
 - (b) Students are responsible for keeping these annual statements up to date.
2. Renewals will be made on the basis of financial need, continued eligibility of the student, and compliance with regulations and guidelines related to the various programs.

TYPES OF FINANCIAL AID

I. Student Employment:

The college maintains two separate employment programs for students. Work opportunities in either program depend upon the funds allocated, the student's availability for employment, personal qualifications, and willingness to work.

Applicants must be enrolled, or accepted for enrollment as full-time students. Employment of full-time students cannot exceed 15 hours per week.

A. Federal Work-Study Program:

1. Preference for employment in this program must be given to students from low-income families.

2. Applicants must be in good academic standing as determined by the college.
 3. Eligible students may be employed at the college or in approved projects off-campus.
 4. Students will be paid at the rate of \$1.25 per hour.
- B. Commonwealth Employment Program:
1. Applicants are not required to qualify according to the federal guidelines on "Financial Aid."
 2. Applicants must be in good academic standing as determined by the college.
 3. Students will be paid at the rate of \$1.15 per hour.

II. Scholarship Aid:

A. PHEAA Scholarships:

Scholarship awards ranging from \$200 to \$1200 per academic year are available to residents of Pennsylvania who need financial assistance to attain an education. All awards are based upon academic potential and a need for financial assistance as determined by the Agency. Further information may be obtained from the Director of Financial Aid or from the Pennsylvania Higher Education Assistance Agency, 219 Towne House, Harrisburg, Pennsylvania 17102.

B. Educational Opportunity Grants:

Federal grants ranging from \$200 to \$800 per academic year are available for exceptionally needy students who require assistance in order to attend college. As an incentive, an additional stipend of \$200 may be awarded to those recipients whose academic average places them in the upper-half of their class.

- C. When a recipient of a Pennsylvania State Scholarship is placed on disciplinary probation by his institution of higher learning, either during a term or at the end of any one academic term, he will not receive payment on his Scholarship Award until he is cleared from disciplinary probation. The student will forfeit his eligibility during this probation period, thus reducing his total eight semester eligibility for scholarship assistance.

Reinstatement of the student's award will be dependent upon the recommendation of the financial aid officer reporting his clearance from disciplinary probation, and the review of the case by the Pennsylvania Higher Education Assistance Agency.

The school, in all cases, should notify PHEAA of its

action both at the time disciplinary action is established and when it is terminated.

III. Student Loans:

A. National Defense Student Loans are long-term loans in which the student assumes an obligation to repay the amount borrowed at 3 per cent interest. Those who teach may have up to one-half of the loan cancelled at the rate of 10 per cent for each year of teaching.

B. PHEAA Guaranty Loans are long-term loans available to residents of Pennsylvania. The maximum loan for a full-time student is \$1000 per academic year not to exceed a total indebtedness of \$7500.

Repayment of the principal of the loan is not required until the student leaves or graduates from college. The federal government will generally pay the interest on behalf of the student while enrolled in college. The federal government will also generally pay the first three per cent of interest while the student is making repayment following graduation or withdrawal from college.

Applications may be obtained from a participating lending institution in or near the student's home community. Ask for the Interest Free State Loan application.

C. Student Loan Fund:

The Alumni Association has a fund to provide short-term, emergency loans to juniors and seniors in good academic standing.

IV. College Scholarship Service:

California State College participates in the College Scholarship Service (CSS) of the College Entrance Examination Board. As a participant the college subscribes to the principle that the amount of financial aid granted a student should be based primarily upon financial need. The college financial aid office will rely upon the assistance of CSS in determining a student's financial need.

Entering students seeking financial assistance are required to submit a copy of the Parents' Confidential Statement (PCS) form to the College Scholarship Service, designating California State College as one of the recipients, by March 1. The PCS form may be obtained from a secondary school or the College Scholarship Service, P.O. Box 176, Princeton, New Jersey 08540.

Arts And Sciences Division



Arts And Sciences Division

The Bachelor of Arts degree is awarded to those persons completing the requirements of the Arts and Sciences Curriculum.

ADMISSION

Students are considered for admission to the Arts and Sciences curriculum on the basis of:

1. General scholarship, as evidenced by graduation from an approved secondary school, or equivalent preparation, as determined by the Credentials Evaluation Division of the Department of Public Instruction.
2. Submission of scores of the Scholastic Aptitude test of the College Entrance Examination Board.
3. Satisfactory character and personality traits plus interests and attitudes conducive to successful college work as reported by secondary school officials.
4. Good health and physical condition as reported by a physician on the medical examination form of the college.
5. Inclusion of the following secondary school work is recommended:

Academic Mathematics	2 years
English	3 years
Foreign Language	2 years
Science	2 years
Social Studies	2 years
Electives	5 years

ADMISSION WITH ADVANCED STANDING

6. All previous listed requirements must be met.
7. The student must request of the college(s) previously attended that a transcript of work completed and a statement of honorable dismissal be mailed to the Director of Admissions.
8. Transferred credit will be accepted on the following basis:
 - a. Final grade earned must be "C" or better.

- b. Transferring college must be accredited by regional crediting association.

INFORMATION ON ADMISSION

Applicants should write to the Director of Admissions for the necessary admissions and registration papers and should follow procedures directed by that office.

ADVISEMENT

Each student electing the Arts and Sciences Curriculum is assigned to a personal adviser in the field of specialization which he chooses. The individual needs of the student in his area of concentration and field of specialization are considered by the adviser in the planning of the program of study. The Dean of Arts and Sciences supervises advisement and provides assistance to all students. Information may be obtained by writing to the Dean of Arts and Sciences.

THE CURRICULUM IN ARTS AND SCIENCE GENERAL STUDIES

Sixty semester hours in general education must be completed by all arts and sciences students as follows:

A. Communicative Arts	18 credits
English Composition	6 cr.
Foreign Language (beyond elementary language)	6 cr.
Public Speaking	3 cr.
Logic or Mathematics	3 cr.
B. Scientific Method	8 credits
Laboratory Science—A two course sequence in any one of the following:	
General Chemistry I and II	
College Physics I and II	
General Biology I and II or Botany and Zoology	
Physical and Historical Geology	
C. Man's Understanding of Himself	21 credits
Social Science	12 cr.
World Culture I and II	6 cr.

A two-course sequence in Anthropology, Economics, Geography, History, Political Science, Psychology, or Sociology.

General Psychology 3 cr.

World Geography 6 cr.

Four semester hours of physical education and/or health will be a graduation requirement. These hours may be taken as electives or not for credit.

D. Appreciation 10 credits

Literature (a one-year sequence) 6 cr.

Art 2 cr.

Music 2 cr.

E. Meaning of Life 3 credits

Philosophy 3 cr.

AREAS OF CONCENTRATION

One of the following—the degree of Bachelor of Arts in the Humanities, Bachelor of Arts in Social Sciences, or Bachelor of Arts in Natural Sciences—will be sought by the student.

For any one of the degrees the student will schedule 50 semester hours in his area of concentration, of which 20 hours may be in his field of specialization.

THE HUMANITIES

In addition to the General Studies required of all students in Arts and Sciences, each candidate for a degree in Humanities will take 50 semester hours as follows:

English and Literature	12 cr.
Foreign Language	6 cr.
Speech Arts	6 cr.
Philosophy	3 cr.
Fine Arts	2 or 3 cr.
Total	30 credits

ENGLISH FIELD OF SPECIALIZATION

REQUIRED COURSES	12 cr.
English Literature I and II (Taken in Area of Concentration)	
American Literature I and II (Taken in Area of Concentration)	
Philology and Grammar	3 cr.
Shakespeare	3 cr.
Literary Criticism	3 cr.
Advanced Composition or Creative Writing	3 cr.*

ELECTIVES	9 cr.
Old and Middle English Literature	3 cr.
Chaucer	3 cr.
Development of English Drama	3 cr.
Elizabethan Literature	3 cr.
17th Century Literature	3 cr.
Milton	3 cr.
Restoration Literature	3 cr.
18th Century Literature	3 cr.
Romantic Movement	3 cr.
Victorian Literature	3 cr.
Novel to 1870	3 cr.
Contemporary Novel	3 cr.
American Puritans	3 cr.
American Prose 1800 to 1860	3 cr.
American Novel 1860 to Present	3 cr.
Contemporary American Poetry	3 cr.
Contemporary Poetry	3 cr.
American Drama	3 cr.
Modern Drama	3 cr.
Honors Course in English	3 cr.
Seminar in English	1 cr.
FRENCH FIELD OF SPECIALIZATION	
REQUIRED COURSES	12 cr.
Intermediate French I and II (Taken in General Education Program)	
French Conversation, Composition and Phonetics I and II (Taken in Area of Concentration)	
Culture and Civilization of France I and II	6 cr.
Survey of French Literature I and II	6 cr.
*The student may take one of these courses as an elective.	
ELECTIVES	8 cr.
French Literature of the 16th Century	3 cr.
French Literature of the 17th Century	3 cr.
French Literature of the 18th Century	3 cr.
French Literature of the 19th Century	3 cr.
Readings in Contemporary French Literature	3 cr.
Studies in French Literature I, II, and III	1, 2, 3 cr.
Field Work in French Studies I	3 cr.
Field Work in French Studies II	3 cr.
Workshop I, II, and II	1, 2, 3 cr.
Honors Course in French	3 cr.
GERMAN FIELD OF SPECIALIZATION	
REQUIRED COURSES	12 cr.
Intermediate German I and II (Taken in General Education Program)	
German Conversation, Composition and Phonetics I and II (Taken in Area of Concentration)	
German Culture and Civilization I and II	6 cr.
German Literature I and II	6 cr.

ELECTIVES	8 cr.
German Classical Movement	3 cr.
German Romantic Movement	3 cr.
German Literature of the Late Baroque; 1720-1760	3 cr.
Classicism: <i>Aufklärung and Sturm Und Drang</i>	3 cr.
Romanticism: 1790-1830	3 cr.
Realism to Naturalism: 1830-1870	3 cr.
Naturalism-Impressionism-Expressionism: 1870-1920	3 cr.
Contemporary German Literature: 1920 to Present	3 cr.
Readings in German Literature I and II	3, 3 cr.
Literary, Cultural and Political History of Germany	3 cr.
Studies in German Literature I, II, and III	1, 2, 3 cr.
Field Work in German Studies I and II	3, 3 cr.
Workshop I, II, and III	1, 2, 3 cr.
Honors in German	3 cr.
Seminar in German	3 cr.
SPANISH FIELD OF SPECIALIZATION	
REQUIRED COURSES	12 cr.
Intermediate Spanish I and II (Taken in General Education Program)	
Spanish Conversation and Composition and Phonetics I and II	
Culture and Civilization of Spain	3 cr.
Culture and Civilization of Hispanic-America	3 cr.
Survey of Spanish Literature	3 cr.
Survey of Spanish-American Literature	3 cr.
ELECTIVES	8 cr.
Spanish Short Story	3 cr.
Cervantes: <i>Don Quixote</i>	3 cr.
The Spanish Drama	3 cr.
The Generation of 1898	3 cr.
The Golden Age Drama	3 cr.
Golden Age Novel	3 cr.
Masterpieces of Hispanic-American Literature	3 cr.
Readings in the Literature of Spain and Hispanic-America	3 cr.
Literary, Cultural, and Political History of Spain and Hispanic-America	3 cr.
Studies in Spanish Literature I, II, and III	1, 2, 3 cr.
Field Work In Spanish Studies I and II	3, 3 cr.
Workshop I, II, and III	1, 2, 3 cr.
Honors in Spanish	3 cr.
Seminar in Spanish	3 cr.
PHILOSOPHY FIELD OF SPECIALIZATION	
REQUIRED COURSES	12 cr.
History of Ancient Philosophy	3 cr.
History of Modern Philosophy	3 cr.
Introduction to Logic	3 cr.
Seminar in Philosophy	3 cr.

ELECTIVES	9 cr.
History of Medieval Philosophy	3 cr.
Nineteenth-Century Philosophy	3 cr.
Ethics	3 cr.
Philosophy of Religion	3 cr.
American Philosophy	3 cr.
History of Science	3 cr.
Special Problems in Philosophy	3 cr.
Metaphysics	3 cr.
Symbolic Logic	3 cr.
Contemporary Philosophy	3 cr.
Epistemology	3 cr.
Philosophy of Science	3 cr.
Honors Course	3 cr.
Seminar in Philosophy	3 cr.
 PUBLIC ADDRESS FIELD OF SPECIALIZATION	
REQUIRED COURSES	15 cr.
Public Speaking (Taken in General Studies Program)	
Voice and Diction (Taken in Area of Concentration)	
Oral Interpretation (Taken in the Area of Concentration)	
Argumentation and Debate	3 cr.
Discussion	3 cr.
Language and Behavior	3 cr.
Persuasion	3 cr.
Forensic Workshops	3 cr.
ELECTIVES	6 cr.
Parliamentary Procedure	3 cr.
Radio Speaking	3 cr.
Advanced Public Speaking	3 cr.
Advanced Discussion	3 cr.
 SPEECH—PUBLIC ADDRESS FIELD OF SPECIALIZATION	
REQUIRED COURSES	21 cr.
Public Speaking (taken in general studies program)	
Voice and Diction (taken in area of concentration)	
Oral Interpretation (taken in area of concentration)	
Technical Play Production	3 cr.
Argumentation and Debate	3 cr.
Play Directing	3 cr.
Discussion	3 cr.
Language and Behavior	3 cr.
Persuasion	3 cr.
Forensic Workshop	3 cr.

SPEECH AND THEATRE FIELD OF SPECIALIZATION

REQUIRED COURSES	21 cr.
Public Speaking (taken in general studies program)	
Voice and Diction (taken in area of concentration)	
Oral Interpretation (taken in area of concentration)	
Technical Play Production	3 cr.
Argumentation and Debate, or Discussion	3 cr.
Play Directing	3 cr.
Acting	3 cr.
Theatre and Its Literature	3 cr.
Radio Speaking	3 cr.
Theatre Workshop	3 cr.

THEATRE FIELD OF SPECIALIZATION

REQUIRED COURSES	15 cr.
Public Speaking (taken in general studies program)	
Voice and Diction (taken in the area of concentration)	
Oral Interpretation (taken in the area of concentration)	
Technical Play Production	3 cr.
Play Directing	3 cr.
Acting	3 cr.
Theatre and Its Literature	3 cr.
Theatre Workshop	3 cr.
ELECTIVES	6 cr.
Advanced Technical Play Production	3 cr.
Advanced Acting	3 cr.
Radio Speaking	3 cr.
Dramatic Criticism	3 cr.

NATURAL SCIENCES FIELD OF SPECIALIZATION

In addition to the General Studies required of all students in Arts and Sciences, each candidate for a degree in Natural Science or Mathematics will take 50 semester hours as follows:

General Biology I and II or Botany and Zoology	8 cr.
General Chemistry I and II	8 cr.
College Physics I and II	8 cr.
Physical Geology	4 cr.
Historical Geology	4 cr.
Analytical Geometry and Calculus II	3 cr.
Analytical Geometry and Calculus III	3 cr.
(One laboratory science sequence of 8 hours is taken in the general studies program and may	

not be used to satisfy the requirements for the area of concentration.)

Total	30 cr.
FIELD OF SPECIALIZATION	20 cr.
Biology	
Chemistry	
Geology	
Mathematics	
Medical Technology	
Physics	
Outdoor Recreation	

ELECTIVES

Each student must take a minimum of 18 credit hours of electives. Not more than 6 of these may be in the student's area of concentration. The student is required to take 4 credit hours in health and physical education. These credits may be taken for no credit or the credits may be applied to the required hours in the electives.

BIOLOGY FIELD OF SPECIALIZATION

REQUIRED COURSES

- Botany (taken in the area of concentration)
- Zoology (taken in the area of concentration)
- Analytic Geometry and Calculus I (Taken in the General Studies)
- Statistics or Analytic Geometry and Calculus III (taken in the area of concentration)

ELECTIVES

	20 cr.
Animal Physiology	3 cr.
Conservation of Natural Resources	3 cr.
Cytology	3 cr.
Embryology	3 cr.
Entomology	3 cr.
Genetics	3 cr.
Histology	3 cr.
Microbiology	3 cr.
Ornithology	3 cr.
Plant Anatomy	3 cr.
Plant Physiology	3 cr.
Radiation Biology	3 cr.
Taxonomy	3 cr.
Vertebrate Anatomy	3 cr.
Seminar in Biology	2 cr.
Introduction to Biological Research	1 cr.

CHEMISTRY FIELD OF SPECIALIZATION

REQUIRED COURSES	8 cr.
General Chemistry I and II (Taken in General Education program)	
Analytical Chemistry I and II	8 cr.
Analytical Geometry and Calculus II and III (Taken in Area of Concentration)	
ELECTIVES	12 cr.
Organic Chemistry I	4 cr.
Organic Chemistry II	4 cr.
Organic Preparations	3 cr.
Qualitative Organic	4 cr.
Physical Chemistry I	4 cr.
Physical Chemistry II	4 cr.
Laboratory Techniques with Instrument Analysis I	4 cr.
Laboratory Techniques with Instrument Analysis II	4 cr.
Biochemistry I	4 cr.
Biochemistry II	4 cr.
Advanced Inorganic I	3 cr.
Advanced Inorganic II	3 cr.
Advanced Organic I	3 cr.
Advanced Organic II	3 cr.
Advanced Physical Chemistry I	3 cr.
Advanced Physical Chemistry II	3 cr.
Agricultural Chemistry	3 cr.
Literature of Chemistry	1 cr.
Chemistry Seminar	1 cr.
Individual Work I and II	2 cr.
Special Problems in Chemistry	1 or 2 cr.
Honors Courses in Chemistry	3 cr.

GEOLOGY FIELD OF SPECIALIZATION

REQUIRED COURSES	18 cr.
Physical and Historical Geology (Taken in Area of Concentration)	
Economic Geology	3 cr.
Geomorphology	3 cr.
Minerology	4 cr.
Stratigraphy	4 cr.
Structural Geology	4 cr.
ELECTIVES	3 or 4 cr.
Astronomy	3 cr.
Cartography	3 cr.
Field Methods in Geology	3 cr.
Field Work in Mathematics	3 cr.
Honors Courses in Geology I, II, and III	3, 6, 9 cr.
Map and Aerial Interpretation	3 cr.
Meteorology	3 cr.
Oceanography	3 cr.
Physical Chemistry I	4 cr.
Physical Chemistry II	4 cr.
Seminar in Geology	3 cr.
Special Problems in Geology	1, 2, 3 cr.

MATHEMATICS FIELD OF SPECIALIZATION

REQUIRED COURSES	18 cr.
Analytical Geometry and Calculus I (Taken in General Studies)	
Analytical Geometry and Calculus II and III (Taken in Area of Concentration)	
Analytical Geometry and Calculus IV and V Geometry I	6 cr.
Abstract Algebra	3 cr.
Advanced Calculus I	3 cr.
Advanced Calculus II	3 cr.
ELECTIVES	3 cr.
Fieldwork in Mathematics	3 cr.
Theory of Equations	3 cr.
Statistical Analysis	3 cr.
Mathematical Insights	3 cr.
Honors Course in Mathematics	3 cr.*
Differential Equations	3 cr.*
Seminar in Mathematics	3 cr.
*Recommended for candidates for graduate work in mathematics	

MEDICAL TECHNOLOGY FIELD OF SPECIALIZATION

REQUIRED COURSES	30 cr.
Botany	3 cr.
Zoology	3 cr.
Microbiology (Bacteriology)	3 cr.
Genetics	3 cr.
Comparative Vertebrate Anatomy	3 cr.
Physiology	3 cr.
Organic Chemistry I	3 cr.
Organic Chemistry II	3 cr.
FIELD OF SPECIALIZATION REQUIREMENTS	30-32 cr.
Approved School of Medical Technology credits plus passing of National Board Examination	
ELECTIVES	6 cr.
A student must take a minimum of 6 credit hours of electives	

OUTDOOR RECREATION FIELD OF SPECIALIZATION

REQUIRED COURSES	19 cr.
Outdoor Living with Safety and Survival	4 cr.
Camp Organization	3 cr.
Camp Counseling	3 cr.
Camp Management	3 cr.
Outdoor Recreation I (S)	2 cr.
Outdoor Recreation II (F)	2 cr.
Outdoor Recreation III (W)	2 cr.
ELECTIVES	3 cr.
The Recreation Movement	3 cr.
Outdoor Education	3 cr.
Recreation Organization	3 cr.

School and Community Recreation	3 cr.
Parks and Playground Management	3 cr.
Camp Arts and Crafts	3 cr.
Recreation for Special Interest Groups	3 cr.
Seminar	3 cr.
Special Studies	3 cr.

PHYSICS FIELD OF SPECIALIZATION

REQUIRED COURSES	6 cr.
College Physics I and II (Taken in the Area of Concentration)	
Modern Physics	3 cr.
Individual Work in Physics I and II	2 cr.
Seminar in Physics	1 cr.
Analytical Geometry and Calculus II and III (Taken in Area of Concentration)	
ELECTIVES	14 cr.
Electronics	4 cr.
Optics	4 cr.
Wave, Motion and Sound	2 cr.
Astronomy	3 cr.
Astrophysics	3 cr.
Physical Measurements I	2 cr.
Physical Measurements II	2 cr.
Advanced Electricity and Magnetism	3 cr.
Thermodynamics	4 cr.
Advanced Mechanics	4 cr.
P S S C Physics	3 cr.
Honors Course in Physics	3 cr.

SOCIAL SCIENCES FIELD OF SPECIALIZATION

In addition to the General Studies required by all students in Arts and Sciences, each candidate for a degree in the Social Sciences will take 50 semester hours as follows:

Economics	6 cr.
History	6 cr.
Political Science	6 cr.
Anthropology	3 cr.
Geography	3 cr.
Psychology	3 cr.
Sociology	3 cr.

(One social science sequence of 6 hours is to be taken in the general education program and may not be used to satisfy the requirements for the area of concentration.)

FIELD OF SPECIALIZATION	20 cr.
Economics	
Geography	

History
 Political Science
 Psychology
 Sociology

ELECTIVES

18 cr.

Each student must take a minimum of 18 credit hours of electives. Not more than 6 of these may be in the student's area of concentration. The student is required to take 4 credit hours in health and physical education. These credits may be taken for electives or for no credit.

ECONOMICS FIELD OF SPECIALIZATION

REQUIRED COURSES

12 cr.

Principles and Problems of Economics I and
 II (Taken in Area of Concentration)
 History of Economic Thought
 Money and Banking
 Intermediate Micro Theory
 Public Finance

3 cr.
 3 cr.
 3 cr.
 3 cr.

ELECTIVES

Principles of Accounting I
 Principles of Accounting II
 Industrial Relations
 Intermediate Macro Theory
 Comparative Economic Systems
 Development of the American Economy
 Monetary and Fiscal Policy
 Quantitative Methods

9 cr.
 3 cr.
 3 cr.
 3 cr.
 3 cr.
 3 cr.
 3 cr.
 3 cr.

GEOGRAPHY FIELD OF SPECIALIZATION

REQUIRED COURSES

11 cr.

Economic Geography (Taken in Area of
 Concentration)
 Physical Geography
 Cartography
 Seminar in Geography
 Special Problems in Geography

3 cr.
 3 cr.
 3 cr.
 2 cr.

ELECTIVES

9 or 10 cr.

The student will elect one course from each group listed below:

Regional Courses:

Geography of Pennsylvania
 Geography of the United States and
 Pennsylvania
 Geography of the United States and Canada
 Geography of Latin America
 Geography of Europe
 Geography of Asia
 Geography of the Far East

3 cr.
 3 cr.
 3 cr.
 3 cr.
 3 cr.
 3 cr.

Geography of Africa	3 cr.
Geography of the Soviet Union	3 cr.
Geography of the Pacific Basin	3 cr.
Summer Field Trip	3 cr.
Special Problems in Geography	1, 2, 3 cr.
<i>Cultural Courses:</i>	
Political Geography	3 cr.
Conservation of Natural Resources	3 cr.
Historical Geography	3 cr.
Trade and Transportation	3 cr.
Commercial and Industrial Geography	3 cr.
Urban Geography	3 cr.
Special Problems in Geography	1, 2, 3 cr.
<i>Physical Courses:</i>	
Physical Geology	4 cr.
Historical Geology	4 cr.
Meteorology	3 cr.
Climatology	3 cr.
Geomorphology	3 cr.
Oceanography	3 cr.
Field Methods in Geography	3 cr.
Special Problems in Geography	1, 2, 3 cr.

HISTORY FIELD OF SPECIALIZATION

REQUIRED COURSES

6 cr.

- History of the United States and Pennsylvania I and II (Taken in the Area of Concentration)
- History of Europe to 1815
- History of Europe Since 1815

3 cr.

3 cr.

ELECTIVES

15 cr.

- History of Pennsylvania
- Contemporary History of the United States
- History of Contemporary Europe
- History of the Ancient World
- History of Medieval Europe
- Renaissance and Reformation
- Social History of the United States
- History of England
- History of Latin America
- History of the Far East
- History of the Middle East
- History of Russia
- 20th Century World History
- History of American Labor
- Diplomatic History of the United States
- American Constitutional History

3 cr.

3 cr.

3 cr.

3 cr.

3 cr.

3 cr.

3 cr.

3 cr.

3 cr.

3 cr.

3 cr.

3 cr.

3 cr.

3 cr.

3 cr.

3 cr.

POLITICAL SCIENCE FIELD OF SPECIALIZATION

REQUIRED COURSES

- Introduction to Political Science (Taken in Area of Concentration)
- American Government (Taken in Area of Concentration)

ELECTIVES	21 cr.
State and Local Government	3 cr.
International Relations	3 cr.
International Organizations	3 cr.
Political Parties	3 cr.
Development of Political Thought	3 cr.
Comparative Government	3 cr.
Introductory Public Administration	3 cr.
Constitutional Law	3 cr.
Interest Groups and Public Opinion	3 cr.
Politics of Developing Areas	3 cr.

PSYCHOLOGY FIELD OF SPECIALIZATION

REQUIRED COURSES	13 cr.
Social Psychology (Taken in Area of Concentration)	
Psychological Testing (Taken in Area of Concentration)	
Statistics (Mathematics 304) (Taken in Area of Concentration)	
Developmental Psychology I	3 cr.
Developmental Psychology II	3 cr.
History and Systems of Psychology	3 cr.
Experimental Psychology	4 cr.
ELECTIVES	7 cr.
Psychology of Adjustment or Mental Hygiene	3 cr.
Psychology of Personality	3 cr.
Abnormal Psychology or Psychology of Exceptional Child	3 cr.
Psychology of Learning	3 cr.
Clinical Psychology	3 cr.
Educational Psychology	3 cr.
Physiological Psychology	3 cr.
Industrial Psychology	3 cr.
Honors Courses in Psychology	3, 3, 3 cr.
Special Studies in Psychology	1, 2, 3 cr.
Seminar in Psychology	1, 2, 3 cr.
Practicum in Psychology	3 cr.

SOCIOLOGY FIELD OF SPECIALIZATION

REQUIRED COURSES	9 cr.
Contemporary Social Problems	3 cr.
The Family	3 cr.
Research Methods	3 cr.
ELECTIVES	11 cr.
(General Sociology Major)	
Social Stratification	3 cr.
Social Institutions	3 cr.
Community and Ecology	3 cr.
Seminar in Sociology	2 cr.
(Pre-Social Work Major)	
Crime	3 cr.

Introduction to Social Work	3 cr.
Welfare Practicum	2 cr.
Child Welfare	3 cr.
Delinquency	3 cr.

SPECIAL PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS

MEDICAL TECHNOLOGY

The degree of Bachelor of Arts in the Arts and Sciences Division will be conferred only after the student has completed 98 credits on the campus—the approved program is included in the curriculum in the natural sciences. Also to be completed before the degree is conferred is the year of study at a School of Medical Technology which has been approved by the California State College and with which the college has established affiliation. The National Board Examination must be passed before granting of the degree.

California State College is affiliated with the following Schools of Medical Technology:

Montefiore Hospital
 Mercy Hospital
 West Penn Hospital (Benedum)
 All of Pittsburgh, Pennsylvania
 Washington Hospital in Washington, Pennsylvania
 Altoona Hospital in Altoona, Pennsylvania
 Conemaugh Valley Memorial Hospital in Johnstown,
 Pennsylvania

The members of the teaching staffs of the approved and affiliated Schools of Medical Technology are considered to be adjunct members of the California State College Faculty.

Teacher Education Division



Teacher Education Division

California offers men and women preparing for the profession of teaching for curricula leading to the Degree of Bachelor of Science in Education: Secondary Education, Elementary Education, Industrial Arts Education and Special Education.

ADMISSION TO TEACHER EDUCATION

Following admission to the Advanced Standing Program, an undergraduate must apply for formal acceptance in the Teacher Education program. This requires the following:

1. The candidate files a formal application with the Dean, Division of Teacher Education and a brief statement covering reasons for choosing education for his profession.
2. If the applicant has a cumulative quality point average of less than 2.3 in his major field or area of specialization, a brief statement covering the student's academic advisor is required.
3. Every student, prior to formal admission to Teacher Education, must have a satisfactory interview with a member of the Committee on Admission to Teacher Education.
4. A review of the candidate's Professional Laboratory Experience program is a regular part of the program in admission to Teacher Education.

PROFESSIONAL LABORATORY EXPERIENCES

To supplement the classroom preparation of the teachers, a program of experiences in teacher-related activities is provided and becomes a part of the college record of each student. With the cooperation of the faculty members who teach professional education courses, each student maintains a record of all campus or off-campus activities in church or community, business or industry, or recreation or camp work. Each record is then examined from time to time as a basis for the evaluation of student growth. Laboratory experience records are filed with the Assistant Dean of Teacher Education and are used in the program of Admission to Teacher Education.

Many organizations provide co-curricular opportunities in the general area of athletics, dramatics, forensics, journalism, student government, music and recreation. A complete list of such organizations is available in the student handbook and a student is guided to his area of special interest throughout the orientation program. Student activities are considered an adjunct to the academic program and not a substitute for it. Participation in activities with children or youth (STARS, VISTA, neighborhood recreation, YMCA, YWCA, CYO, YMHA, etc.) is specifically encouraged.

Transfer students will be expected to report voluntarily to the chairman of the Professional Laboratory Experiences Committee and complete the necessary forms.

THE PROFESSIONAL TRIMESTER

The Professional Trimester is a program designed by the staff of the Department of Elementary Education. It is a block of method courses in elementary education which are:

Teaching of Reading	3 cr.
Teaching of Language Arts	2 cr.
Arithmetic Content and Method	3 cr.
Teaching Content Subjects	3 cr.
Teaching Music	3 cr.
Teaching Health and Physical Education	2 cr.
Participation, Noss Laboratory School	

The Professional Trimester is scheduled immediately prior to the student teaching program and is arranged through conference with the Head of the Department of Elementary Education. Goals of this program are:

1. To group methods courses into more meaningful units.
2. To help identify the prospective teacher as an elementary educator.
3. To provide opportunities for the department faculty to teach cooperatively.

NOSS LABORATORY SCHOOL

The Noss Laboratory School is located in the middle of the campus and has an enrollment of approximately two hundred children from kindergarten through grade six. It is here that

college students have the opportunity to observe master teachers creating a fine learning environment for children and student teaching.

The Childrens' Book Collection is housed in the Noss Library, and the program provided by the librarian for the children is outstanding. The students of the college also are privileged to make use of this collection.

The objectives for the educational program are in agreement with the National Education Association's Project Report, School for the 60's which states . . . "that essential objectives of education must be premised on the recognition that education is a process of changing behavior and that a changing society requires the capacity for self-teaching and self-adaptation." A very serious attempt is made to enable children to learn to approach new problems, to learn how to acquire competence in basic skills, and to develop the ability to express themselves through creative activity.

Every child is important and is given the opportunity to find a self-dignity through his contributions to the school program, regardless of his ability.

More emphasis is being placed upon the importance of independent study, and the more capable students in the intermediate grades will spend a portion of their time in small group or independent pursuits.

STUDENT TEACHING

Student Teaching is conducted under the supervision of the Director of Student Teaching, whose office is located in South Hall 308. Students who are candidates for degrees are required to earn twelve trimester hours of credit in Student Teaching. For regular students this assignment covers the entire trimester of sixteen weeks. The work is carried on in the campus Laboratory School and in selected public schools located in the service area of the college.

Students must make application for Student Teaching by filling out a form obtainable through the office of the Director of Student Teaching. Registration for Student Teaching will be held during the March group guidance meeting.

Before a student may be assigned to this vital part of the

Teacher-Education Curriculum, he must (a) hold a certificate of advanced standing, (b) be admitted to Teacher Education, (c) have an over-all quality point average of 2.0, (d) be approved as having satisfactorily completed the required preparatory work.

Students will not be assigned to Student Teaching until they have completed at least one trimester's work in the college. Graduates of other colleges must meet the residence requirement before being assigned to Student Teaching.

STUDENT TEACHING FOR EXPERIENCED TEACHERS

Teachers who hold any teaching certificate below the level of the Provisional College Certificate and who have had three or more years of teaching experience, may be permitted to complete the Student Teaching requirement by special arrangement in consultation with the Dean of Academic Affairs. The Dean of Academic Affairs may allow the student to fulfill the Student Teaching requirement for the Bachelor of Science Degree in Education by making a substitute requirement in keeping with the needs of the individual student.

CERTIFICATION OF TEACHERS PROVISIONAL COLLEGE CERTIFICATION

Students who receive the Bachelor of Science Degree in Education after completing a teacher preparation curriculum at this college will be granted a Provisional College Certificate, which is issued by the Department of Public Instruction. The certificate, for which application must be made, must be issued before graduates may teach in public schools of Pennsylvania.

This certificate, not to be confused with the diploma issued at graduation, is valid for three years of teaching. It indicates the subject or subjects and the field in which the holder is permitted to teach, and may become permanent when the holder meets the requirements established by the State Board of Education.

The Dean of Academic Affairs or the Dean of Teacher Education will confer with persons who wish to have a Provisional College Certificate extended to include Industrial Arts, Speech Correction, the Teaching of Mentally Retarded classes or any of the academic areas.

PERMANENT COLLEGE CERTIFICATE

A Provisional College Certificate may be made permanent after three years of successful teaching experience, rated at "middle" or better, in the appropriate field in the public schools of the Commonwealth of Pennsylvania, and the satisfactory completion of at least twelve trimester hours of additional preparation of collegiate grade, completed subsequent to the conferring of the baccalaureate degree. Twenty-four hours are required for students graduating after Oct. 1, 1963.

THE GENERAL CURRICULUM PATTERN OF THE TEACHER EDUCATION PROGRAM

General Education courses required in all curricula	ELEM. CURR.	I.A. CURR.	SEC. CURR.	SPEC. CURR.
Humanities courses	22	20	22	22
English Composition I and II	6	6	6	6
Public Speaking	3	3	3	3
Literature I and II (World Literature, American Literature or English Literature)	6	6	6	6
Introduction to Philosophy	3	3	3	3
Introduction to Art	2		2	2
Introduction to Music	2	2	2	2
Social Sciences courses	12	12	12	12
World Culture I and II	6	6	6	6
History of U.S. & Pa. Survey	3	3	3	3
American Government	3	3	3	3
Sciences	27	25	27	30
Mathematics	3	3	3	3
Man and His Biological World	5	5	5*	5
Man and His Physical World			5*	5
General Physics		4		
World Geography I	3	3	3	3
General Psychology	3	3	3	3
Developmental Psychology I	3			3
	ELEM. CURR.	I.A. CURR.	SEC. CURR.	SPEC. CURR.
Developmental Psychology II		3	3	
Psychology of the Exceptional Child				3
Health	2	2	2	2
Physical Education	3	2	3	3
TOTAL	61	57	61	64

* Student specializing in the Secondary Curriculum will take laboratory science courses in lieu of Man and His Biological World and Man and His Physical World.

PROFESSIONAL EDUCATION	ELEM. CURR.	I.A. CURR.	SEC. CURR.	SPEC. CURR.
Foundations of Education	3	3	3	3
Audio-Visual Education	2	2	2	2
Educational Psychology	3	3	3	3
Prob of Secondary Education			3	
Principles & Practices of I.A.		3		
Methods & Techniques of Speech Correction				3
Teaching of the Academic Field			3	
Secondary Reading & the Academic Discipline			2*	
Curriculum Making in I.A.		2		
Student Teaching	12	12	12	12
Professional Practicum and School Law	2	2	2	2
TOTAL	22	27	30	25

SPECIALIZATIONS

Elementary Curriculum	15-16			
Industrial Arts Curriculum		46		
Secondary Curriculum			24-45	
Special Education Curriculum				45

*The course, Secondary Reading and Academic Discipline, is no longer required by the State Department of Public Instruction for certification to teach; however, it remains as a local requirement. The Department Head may make substitutions.

Minimum credit hours for graduation

128

THE ELEMENTARY EDUCATION CURRICULUM

GENERAL EDUCATION				61
PROFESSIONAL EDUCATION				22
Foundations of Education	3			
Audio-Visual Education	2			
Educational Psychology	3			
Student Teaching (Elementary)	12			
Professional Practicum and School Law	2			
ELEMENTARY SPECIALIZATION				26
Content		11		
Geography of the U.S. & Pa.	3			
Art of Elementary Education	3			
Laboratory Science for Teachers	3			
Children's Literature I	2			
Professional Trimester		15		
Teaching of Reading	3			
Arithmetic Content and Method	3			
Teaching of Language Arts	2			

Teaching of Content Subjects	2
Teaching of Music	3
Health and Physical Education for the Elementary Grades	2

ACADEMIC SPECIALIZATIONS

15

Art
Comprehensive Language Arts
English
Geography
Industrial Arts
Mathematics
Modern Foreign Languages
French
German
Spanish
Music
Outdoor Education
Physical Education
Science
Social Studies
Speech and Theatre

ELECTIVE

6

Total minimum credits required for graduation	130
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SUGGESTED PROGRAM FOR THE ELEMENTARY CURRICULUM

FIRST TRIMESTER—17 credits

English Composition I	3
Public Speaking	3
Man and His Biological World	5
Introduction to Art	2
Fundamentals of Math	3
Physical Education I	1

SECOND TRIMESTER—17 credits

English Composition II	3
Man and His Physical World	5
Foundations of Education	3
Introduction to Music	2
Physical Education II	1
First course in area of specialization	3

THIRD TRIMESTER—17 credits

World Culture I	3
Literature I	3
World Geography	3
General Psychology	3
Health	2
Second course in area of specialization	3

FOURTH TRIMESTER—17 credits

World Culture II	3
Literature II	3

Geography of U.S. & Pa.	3
Educational Psychology	3
Fundamentals of Music	2
Third course in area of specialization	3

FIFTH TRIMESTER—17 credits

Art of Elementary Education	2
Lab Science for Elementary Grades	3
Developmental Psychology I	3
Physical Education III	1
Fourth course in area of specialization	3
Audio-Visual Education	2
Children's Literature	2

SIXTH TRIMESTER—16 credits

Teaching of Reading	3
Teaching of Language Arts	2
Arithmetic Content & Method	3
Teaching Content Subjects	3
Teaching Music in Elementary Grades	3
Health & Physical Education for Elem. Gr.	2

SEVENTH TRIMESTER—14 credits

Student Teaching	12
Professional Practicum and School Law	2

EIGHTH TRIMESTER—15 credits

History of U.S. & Pa. Survey	3
American Government	3
Introduction to Philosophy	3
Fifth course in area of specialization	3
Sixth course in area of specialization	3

ART FIELD OF SPECIALIZATION

Hours required for the specialization 15

Required Courses:	15
Art of Elementary Education	3*
Crafts for Elementary Grades	3
Art Education Workshop	3
Drawing and Painting I	3
Creative Art Activities I	3 or 4
Creative Art Activities II	3
Elective Courses:	
Research in Art Education	2
Art of Asia	2
Art of Latin America	2
Contemporary Art in America	2

*Art of Elementary Education is taken as a part of the professional education requirement in the Elementary Education Curriculum.

COMPREHENSIVE LANGUAGE ARTS SPECIALIZATION

Hours required for field of specialization 15

Required Courses: 15

Teaching of Reading	3*
Diagnostic and Remedial Reading	3
Children's Literature II	3
Creative Dramatics	3
Voice and Diction	3
Seminar in Reading and Language Arts or Seminar in Writing Skills	3

*Teaching of Reading is taken in the professional education courses for Elementary Education students.

ENGLISH FIELD OF SPECIALIZATION

Hours required for the field of specialization 15

Elective Courses:

Fifteen credits beyond the general education and professional education requirements for the student in the Elementary Education Curriculum may be selected from the courses listed under English in the college catalogue and approved by the student's academic advisor. Two courses must be on the junior-senior level and taken after the student has become a junior.

GEOGRAPHY SPECIALIZATION

Hours required for the specialization 15

Required Courses:

Geography of the U.S. & Pa. (Taken in the General Studies Program)	3
Economic Geography	3
Map Appreciation & Interpretation	3
Physical Geography	3

Elective Courses: 6

The student will select one elective course from Group I and one course from Group II for a total of six credits.

Group I Regional Courses

Geography of Africa	3
Geography of Asia	3
Geography of Europe	3
Geography of Latin America	3
Geography of the Pacific Basin	3
Geography of Pennsylvania	3
Geography of Pennsylvania	3
Geography of the U.S.S.R.	3

Group II Cultural Aspects of Geography	
Commercial and Industrial Geography	3
Conservation of Natural Resources	3
Historical Geography	3
Summer Field Trips	3
Political Geography	3

INDUSTRIAL ARTS SPECIALIZATION

Hours required for field of specialization		16
Required Courses:		8
Blueprint Reading or Introduction to Mechanical Drawing	2	
Industrial Arts Design	2	
Introduction to Industrial Arts Laboratory or Fundamentals of Woodworking	4	
Elective Courses:		8
Crafts	2-4	
Cereamics	2-4	
Leathercraft	2-4	
Plastics	2-4	
Fundamentals of Metalworking	4	
Graphic Arts for Elementary Tchrs.	4	
Photography	4	

MATHEMATICS FIELD OF SPECIALIZATION

Hours required for field of specialization		15
Required Courses:		15
College Algebra	3	
College Trigonometry	3	
Analytic Geometry and Calculus I	3	
Geometry I	3	
Diagnostic and Remedial Mathematics	3	
Math Insights	3*	

*Math Insights will be taken in lieu of Fundamentals of Mathematics and will be taken in the general education curriculum.

If the student's College Board Mathematics score indicate outstanding ability (600 or better) the student may elect to start with Analytic Geometry and Calculus I and complete six credits in mathematics electives beyond those courses listed above.

FRENCH FIELD OF SPECIALIZATION

Hours required for field of specialization		15
Required Courses:		15
Elementary French I	3	

Elementary French II	3
Intermediate French I	3
Intermediate French II	3
French Conversation, Composition, and Phonetics I	3

GERMAN FIELD OF SPECIALIZATION

Hours required for field of specialization 15

Required Courses:	15
Elementary German I	3
Elementary German II	3
Intermediate German I	3
Intermediate German II	3
German Conversation, Composition, and Phonetics I	3

SPANISH FIELD OF SPECIALIZATION

Hours required for field of specialization 15

Required Courses:	15
Elementary Spanish I	3
Elementary Spanish II	3
Intermediate Spanish I	3
Intermediate Spanish II	3
Spanish Conversation, Composition, and Phonetics I	3

MUSIC FIELD OF SPECIALIZATION

Hours required for field of specialization 16

Required Courses:	16
Theory I	3
Theory II	3
Keyboard Experiences	2
Sight Singing	3
Children's Song Literature	3
Rhythmic Experiences	2
Teaching of Music	3*

*Teaching of Music will be taken in the Elementary Specialization.

OUTDOOR EDUCATION SPECIALIZATION

Hours required for field of specialization 15

Required Courses:	15
Natural History I	3

Natural History II	3
Outdoor Recreation	2
Camp Counseling	3
Outdoor Living	4

PHYSICAL EDUCATION SPECIALIZATION

Hours required for field of specialization 16

Required Courses:	16
Principles of Physical Education in the Elementary School	2*
Movement Analysis	3
Games and Gymnastics, Grades K-3	2
Games and Gymnastics, Grades 4-6	3
Rhythmics and Dance, Grades K-6	3
Adapted and Related Programs	2
Programming Physical Education in the Elementary School	3

*Principles of Physical Education in the Elementary School will be taken in lieu of Health and Physical Education for Elementary Grades and be counted in the Professional Education Curriculum.

SCIENCE FIELD OF SPECIALIZATION

Hours required for field of specialization 16

Required Courses:	16
Meteorology	3
Physical Geology	4
Descriptive Astronomy	3
Conservation of Natural Resources	3
Field Science for Teachers	3
Laboratory Science for Teachers	3*

*Laboratory Science for Teachers is taken in the Professional Education requirements.

SOCIAL STUDIES FIELD OF SPECIALIZATION

Hours required for field of specialization 15

Required Courses:	15
History of the U.S. and Pa. I	3*
American Government	3*
History of the U.S. and Pa. II	3
Principles of Economics I and II	6
Principles of Sociology	3
Introduction to Political Science	3

*History of the United States and Pennsylvania I will be taken in lieu of Survey of History of the United States and Pennsylvania and will be counted in General Education. American Government will be taken in the General Education Program.

SPEECH AND THEATRE FIELD OF SPECIALIZATION

Hours required for field of specialization	15
Required Courses:	
Public Speaking	3*
Voice and Diction	3
Oral Interpretation	3
Discussion	3
Children's Theatre	3
Language and Behavior OR	
Creative Dramatics	3

*Public Speaking is taken as a part of the General Education Program.

SUGGESTED PROGRAM OF COURSES FOR THE SECONDARY CURRICULUM

FIRST TRIMESTER—17 credits	
English Composition	3 cr.
Man and His Biological World	5 cr.
Health	2 cr.
Public Speaking	3 cr.
Physical Education I	1 cr.
Elective	3 cr.
SECOND TRIMESTER—17 credits	
English Composition	3 cr.
Man and His Physical World	5 cr.
Foundations of Education	3 cr.
General Psychology	3 cr.
Elective	3 cr.
THIRD TRIMESTER—17 credits	
World Culture I	3 cr.
World Literature I	3 cr.
Intro. to Philosophy	3 cr.
Intro. to Art	2 cr.
Elective	6 cr.
FOURTH TRIMESTER—16 credits	
World Culture II	3 cr.
World Literature II	3 cr.
Physical Education II	1 cr.
Educational Psychology	3 cr.
Elective	6 cr.
FIFTH TRIMESTER—18 credits	
Survey of History of U.S. and Pa.	3 cr.
Fundamentals of Math	3 cr.
World Geography	3 cr.
Elective	9 cr.
SIXTH TRIMESTER—17 credits	
Intro. to Music	2 cr.
Problems of Secondary Education	3 cr.

Developmental Psychology II	3 cr.
Physical Education III	1 cr.
Audio Visual Education	2 cr.
Elective	6 cr.

SEVENTH TRIMESTER—17 credits

American Government	3 cr.
Teaching of Content Subject	3 cr.
Teaching of Reading Secondary	2 cr.
Elective	9 cr.

EIGHTH TRIMESTER—14 credits

Student Teaching	12 cr.
Professional Practicum	2 cr.

INDUSTRIAL ARTS CURRICULUM

GENERAL EDUCATION

57

HUMANITIES

20

English Composition I and II	6
Literature I and II (American English or World Lit.)	6
Public Speaking	3
Introduction to Philosophy	3
Introduction to Music	2

SOCIAL SCIENCE

12

World Culture I and II	6
History of the U.S. and Pa.	3
American Government	3

NATURAL SCIENCES

25

Mathematics	3
Man and His Biological World	5
General Physics	4
World Geography	3
General Psychology	3
Developmental Psychology II	3
Health	2
Physical Education I and II	2

PROFESSIONAL EDUCATION

27

Student Teaching	12
Professional Practicum and School Law	2
Educational Psychology	3
Foundations of Education	3
Audio-Visual Education	2
Principles and Practices of I.A.	3
Curriculum Making in I.A.	2

SUGGESTED PROGRAM OF STUDIES FOR INDUSTRIAL ARTS

(For administrative reasons the sequence of courses is subject to change.)

FIRST TRIMESTER—16 credits	
Fundamentals of Woodworking	4
Introduction to Mechanical Drawing	2
Composition I	3
College Algebra	3
Foundations of Education	3
Physical Education I	1
SECOND TRIMESTER—17 credits	
Fundamentals of Graphic Arts	4
Graphic Arts Design	2
Composition II	3
Public Speaking	3
General Physics & Lab	4
Physical Education II	1
THIRD TRIMESTER—17 credits	
Fundamentals of Metalworking	4
Surface Development & Design	2
General Psychology	3
Electricity-Electronics I	3
Audio-Visual Education	2
Literature I	3
FOURTH TRIMESTER—17 credits	
Advanced Woodworking	4
Industrial Arts Design	2
Electricity-Electronics II	3
World Geography I	3
Educational Psychology	3
Introduction to Music	2
FIFTH TRIMESTER—17 credits	
Fundamentals of Machine	4
Machine Drawing	2
Principles & Practices of IA	3
World Culture I	3
Developmental Psychology II	3
Health	2
SIXTH TRIMESTER—17 credits	
Curriculum Making in IA	2
World Culture II	3
Literature II	3
Introduction to Philosophy	3
Elective Laboratory	4
Elective Drawing	2
SEVENTH TRIMESTER—14 credits	
Student Teaching	12
Professional Practicum & School Law	2

EIGHTH TRIMESTER—15 credits

Man & His Biological World	5
American Government	3
History of U.S. & Pa. Survey	3
Elective Laboratory	4

THE SECONDARY EDUCATION CURRICULUM

GENERAL EDUCATION 61

PROFESSIONAL EDUCATION 30

Foundations of Education	3
Audio-Visual Education	2
Educational Psychology	3
Problems of Secondary Education	3
Teaching of Academic Field	3
Secondary Reading and Academic Discipline	2°
Student Teaching (Secondary)	12
Professional Practicum and School Law	2

*The course, Secondary Reading and Academic Discipline, is no longer required by the State Department of Public Instruction for certification to teach; however, it remains as a local requirement. The Department Head may make substitutions.

ACADEMIC SPECIALIZATIONS

Biology	
Chemistry	
Earth Science	
English	
Geography	
Geography and Earth Science	
History	
Mathematics	
Modern Foreign Language	
French	
German	
Spanish	
Physics	
Social Studies	
Speech and Theatre	
Total minimum credits required for graduation	128

BIOLOGICAL SCIENCE FIELD OF SPECIALIZATION

Hours required for the field of specialization	23
Required Courses:	8
Botany	3°

Zoology	3*	
Radiation Biology and Health	2*	
Organic Chemistry I and II	8	
Elective Courses:		15
Vertebrate Anatomy	3	
General Physiology	3	
Microbiology	3	
Genetics	3	
Entomology	3	
Ecology	3	
Embryology	3	
Histology	3	
Taxonomy	3	
Plant Anatomy	3	
Plant Physiology	3	
Cytology	3	
Seminar in Biology	2	
Introduction to Biological Research I, II	1, 1	

*Students with an adequate preparation in High School Chemistry, Physics and Biology will take Botany and Zoology as their introductory courses for the major in Biology in Secondary Education. If the student lacks the high school background, the student must take General Biology I and II in the general studies program prior to taking Botany and Zoology. Radiation Biology and Health will be taken in the general education program instead of the Health course.

Vertebrate Anatomy should be taken prior to electing Physiology, and Physiology should not be taken unless preceded by Organic Chemistry.

CHEMISTRY FIELD OF SPECIALIZATION

Hours required for the field of specialization		45
Required Courses:		33
Radiation Biology and Health	2*	
General Biology I and II	8*	
General Chemistry I and II	8*	
College Physics I and II	8*	
Analytical Geometry and Calculus I	3*	
Analytical Geometry and Calculus II and III	6	
Individual Work I and II	2	
Seminar	1	
Analytical Chemistry I and II	8	
Elective Courses:		12
Organic Chemistry I	4	
Organic Chemistry II	4	
Organic Preparations	3	
Qualitative Organic	4	
Physical Chemistry I	4	

Physical Chemistry II	4
Laboratory Techniques with Instrument Analysis I	4
Laboratory Techniques with Instrument Analysis II	4
Biochemistry I	4
Biochemistry II	4
Advanced Inorganic I	3
Advanced Inorganic II	3
Advanced Organic I	3
Advanced Organic II	3
Advanced Physical Chemistry I	3
Advanced Physical Chemistry II	3
Agricultural Chemistry	3
Chemistry for High School Teachers	3
Literature of Chemistry	1
Honors Course in Chemistry	3

*8 credits of laboratory science, Radiation Biology and Health, and Analytical Geometry and Calculus I are taken as general education courses.

EARTH SCIENCE FIELD OF SPECIALIZATION

Hours required for the field of specialization		26
Required Courses:		23
Descriptive Astronomy	3	
Historical Geology	4	
Meteorology	3	
Oceanography	3	
Physical Geology	4	
Geomorphology	3	
Seminar in Earth Science	3	
Elective Courses:		3
Cartography	3	
Climatology	3	
Conservation of Natural Resources	3	
Economic Geology	3	
Field Methods	3	
Honors Courses	3, 6, 9	
Physical Geography	3	
Rocks and Minerals	4	
Special Problems in Earth Science I, II, III	1, 2, 3	
Stratigraphy	4	
Structural Geology	4	

The general education courses, Man and His Biological World, Man and His Physical World, and World Geography should be taken in the freshman year as a part of the Earth Science Program and as pre-requisite to all other Earth Science Courses with the exception of Astronomy which could also be taken in the freshman year.

By careful selection of elective, The Earth Science Major may have a "field of specialization" in Geography also.

ENGLISH FIELD OF SPECIALIZATION

Hours required for the field of specialization		30
Required Courses:		18
American Literature I and II	6*	
English Literature I and II	6*	
The Teaching of English	3*	
English Philology and Grammar	3	
Advanced Composition or Creative Writing	3	
Literary Criticism	3	
Shakespeare	3	
Elective Courses:		12
Old and Middle English Literature	3	
Chaucer	3	
Development of English Drama	3	
Elizabethan Literature	3	
Early American Literature	3	
17th Century Literature	3	
Milton	3	
Restoration Literature and 18th Century Literature	3	
American Prose from 1800 to 1860	3	
American Novel from 1860 to Present	3	
American Drama	3	
Contemporary American Poetry	3	
Romantic Movement	3	
Victorian Literature	3	
Novel to 1870	3	
Contemporary Novel	3	
Short Story	3	
Contemporary Poetry	3	
Modern Drama	3	

*6 credits of Literature I and II may be taken in the general studies program and Teaching of English is taken in the professional education program.

In addition the English Department recommends courses in speech and foreign languages as desirable additions to the competency of teachers of English.

Readings will be written on the certificate valid for English, when an applicant has completed a minimum of six semester hours of developmental and remedial reading.

GEOGRAPHY FIELD OF SPECIALIZATION

Hours required for the field of specialization		24 or 25
Required Courses:		15
Cartography or Map Appreciation and Interpretation	3	

Economic Geography	3
Geography of the United States and Pennsylvania	3
Physical Geography	3
Seminar in Geography	3
Elective Courses:	9 or 10
Group I – Regional Courses (3 credits to be selected from this group)	
Geography of Africa	3
Geography of Asia	3
Geography of Europe	3
Geography of the Far East	3
Geography of Latin America	3
Geography of the Pacific Basin	3
Geography of Pennsylvania	3
Geography of the Soviet Union	3
Geography of the United States and Canada	3
Group II – Cultural Courses (3 credits to be selected from this group)	
Commercial and Industrial Geography	3
Conservation of Natural Resources	3
Historical Geography	3
Honors Course (s)	3, 6, 9
Special Problems in Geography I, II, III	1, 2, 3
Summer Tour (s)	1, 2, 3
Trade and Transportation	3
Urban Geography	3
World Geography II	3
Group III – Physical Courses (3 credits to be selected from this group)	
Climatology	3
Economic Geology	3
Field Methods in Geography	3
Geology (Historical)	4
Geology (Physical)	4
Map and Aerial Photography Interpretation	3
Meteorology	3
Oceanography	3
Geomorphology	3

Geography majors are strongly urged to take courses in Social, Biological and Physical Sciences as the chairmen and staffs of the departments consider desirable. A foreign language is desirable for all geography majors.

GEOGRAPHY AND EARTH SCIENCE FIELD OF SPECIALIZATION

Hours required for the field of specialization	38
Required Courses:	32
Geography Courses:	
Cartography or Map Appreciation and Interpretation	3

Economic Geography	3
Geography of the United States and Pennsylvania	3
Seminar in Geography	3
Earth Science Courses:	
Astronomy	3
Conservation of Natural Resources	3
Historical Geology	4
Meteorology	3
Oceanography	3
Physical Geology	4
Elective Courses:	
Geography of Europe	3
Geography of Asia	3
Geography of the Soviet Union	3
Geography of Pennsylvania	3
Geography of Latin America	3
Commercial and Industrial Geography	3
Geography of the Far East	3
Geography of the Pacific Basin	3
Geography of the United States and Canada	3
Historical Geography	3
Political Geography	3
Trade and Transportation	3
Urban Geography	3
Geography of Africa	3
Summer Tours	1, 2, 3

HISTORY FIELD OF SPECIALIZATION

Hours required for the field of specialization		30
Required Courses:		
Group I	6	
History of Europe to 1815	3	
History of Europe since 1815	3	
Elective Courses:	13	
History of the Ancient World	3	
History of Medieval Europe	3	
Renaissance and Reformation	3	
Contemporary Europe	3	
History of England	3	
Group II		
Electives:		
History of the United States and Pennsylvania	3	
Contemporary United States History	3	
Diplomatic History of the United States	3	
American Constitutional History	3	
History of Pennsylvania	3	
Social History of the United States	3	

Group III		
Electives:		6
History of Latin America	3	
History of the Far East	3	
History of the Middle East	3	
Twentieth Century World History	3	
History of Russia	3	
History of Africa	3	
Group IV		
Electives:		12

The student may elect any (12) credit hours not used in Groups I, II, and III.

MATHEMATICS FIELD OF SPECIALIZATION

Hours required for the field of specialization		30
Required Courses:		24
Analytical Geometry and Calculus I	3	
Analytical Geometry and Calculus II	3	
Analytical Geometry and Calculus III	3	
Analytical Geometry and Calculus IV	3	
Geometry I	3	
Abstract Algebra	3	
Statistical Analysis	3	
Elective Courses:		6
Analytical Geometry and Calculus V	3*	
Differential Equations	3	
Theory of Equations	3	
Field Work in Mathematics	3	
Mathematics of Finance	3	
Advanced Calculus I	3*	
Advanced Calculus II	3*	
Linear Algebra	3*	

*Courses marked with an * are required for entrance into most graduate schools.

Students entering the mathematics program with inadequate mathematical backgrounds for Analytical Geometry and Calculus I will be required to take College Algebra and College Trigonometry before entering Analytical Geometry and Calculus I. These courses will count toward graduation but not towards the 30 credits of mathematics for a major.

Free Electives: It is strongly recommended that mathematics majors take at least eight hours of Physics I which may be taken in place of Man and His Physical World.

MODERN LANGUAGES—FRENCH-SPECIALIZATION

Hours required for the field of specialization		24
Required Courses:		6
Intermediate French I and II	6	

French Conversation, Composition and Phonetics I and II	6
Culture and Civilization of France I and II	6
Survey of French Literature I and II	6
Elective Courses:	
French Literature of the 16th Century	3
French Literature of the 17th Century	3
French Literature of the 18th Century	3
French Literature of the 19th Century	3
Readings in Contemporary French Literature	3
Studies in French Literature I, II, and III	1,2,3
Field Work in French Studies I	3
Field Work in French Studies II	3
Workshop I, II, and III	1, 2, 3
Honors Course in French	3

GERMAN-SPECIALIZATION

Hours required for the field of specialization

Required Courses:	24
Intermediate German I and II	6
Conversation, Composition, and Phonetics I and II	6
German Culture and Civilization I and II	6
Survey of German Literature I and II	6
Elective Courses:	
German Classical Movement	3
German Romantic Movement	3
German Literature of the Late Broque; 1720-1760	3
Classicism: Aufklarung and Sturm Und Drang	3
Romanticism: 1790-1830	3
Realism to Naturalism: 1830-1870	3
Naturalism—Impressionism— Expressionism: 1870-1920	3
Contemporary German Literature: 1920 to Present	3
Readings in German Literature I and II	3
Literary Cultural, and Political History of Germany	3
Studies in German Literature I, II, and III	1,2,3
Field Work in German Studies I and II	3
Workshop I, II and III	1, 2, 3
Honors in German	3
Seminar in German	3

SPANISH SPECIALIZATION

Hours required for the field of specialization		24
Required Courses:		
Intermediate Spanish I and II	6	
Conversation, Composition, and Phonetics I and II	6	
Culture and Civilization of Spain	3	
Culture and Civilization of Hispanic-America	3	
Survey of Spanish Literature	3	
Survey of Spanish-American Literature	3	
Elective Courses:		
Spanish Short Story	3	
Cervantes: Don Quixote	3	
The Spanish Drama	3	
The Generation of 1898	3	
The Golden Age Drama	3	
Golden Age Novel	3	
Masterpieces of Hispanic- American Literature	3	
Readings in the Literature of Spain and Hispanic-America	3	
Literary, Cultural, and Political History of Spain and Hispanic-America	3	
Studies in Spanish Literature I, II, and III	1,2,3	
Fieldwork in Spanish Studies I and II	3,3	
Workshop I, II, and III	1,2,3	
Honors in Spanish	3	
Seminar in Spanish	3	

PHYSICS FIELD OF SPECIALIZATION

Hours required for the field of specialization		40
Required Courses:		
General Biology I and II	8*	
General Chemistry I and II	8*	
College Physics I and II	8*	
Radiation Biology and Health	2*	
Analytical Geometry and Calculus I	3*	
Modern Physics	3	
Analytical Geometry and Calculus II, III, and IV	9	
Individual Work I and II	2	
Seminar in Physics	1	
Elective Courses:		
Electronics	4	
Optics	4	
Wave, Motion, and Sound	2	

Astronomy	3
Astro-Physics	3
Physical Measurements I	2
Physical Measurements II	2
Advanced Electricity and Magnetism	3#
Thermodynamics	4#
Advanced Mechanics	4#
P S S C Physics	3
Honors Course in Physics	3

*8 credits of laboratory science, Radiation Biology and Health, and Analytical Geometry and Calculus I are taken as general education courses.

#The student should elect one of the courses marked with the # as a part of 9 hours elective credits.

SOCIAL STUDIES FIELD OF SPECIALIZATION

Hours required for the field of specialization		36
Required Courses:		6
Group I		
History of Europe to 1815	3	
History of Europe since 1815	3	
Elective Courses:		
History of the Ancient World	3	
History of Medieval Europe	3	
Renaissance and Reformation	3	
Contemporary European History	3	
History of England	3	
History of Latin America	3	
History of the Far East	3	
History of the Middle East	3	
History of Russia	3	
Twentieth Century World History	3	
Group II		
Required Courses:		3
History of United States and Pennsylvania I (Taken in the General Education Program in lieu of Survey of United States and Pennsylvania)		
History of United States and Pennsylvania II	3	
Elective Courses:		3
Contemporary United States	3	
Diplomatic History of the United States	3	
American Constitutional History	3	
History of Pennsylvania	3	
Social History of the United States	3	
Group III		
Required Courses:		3
Introduction to Political Science	3	

Elective Courses:		3
State and Local Government	3	
Comparative Government	3	
International Relations	3	
Constitutional Law	3	
Interest Groups and Public Opinion	3	
Politics of Developing Areas	3	
Political Thought	3	
Group IV		
Required Courses:		3
Principles of Sociology	3	
Elective Courses:		3
Contemporary Social Problems	3	
The Family	3	
Anthropology	3	
Group V		
Required Courses:		6
Principles of Economics I	3	
Principles of Economics II	3	
Elective Courses:		
Money and Banking	3	
Industrial Relations	3	
Public Finance	3	
History of Economic Thought	3	
Group VI		
Elective Courses:		

The student may elect any 6 credit hours not used in Groups I, II, III, IV, and V.

GENERAL SPEECH FIELD OF SPECIALIZATION

Hours required for the field of specialization		36
Required Courses:		36
Public Speaking	3*	
Voice and Diction	3	
Oral Interpretation	3	
Technical Play Production	3	
Argumentation and Debate	3	
Discussion	3	
Play Directing	3	
Language Behavior	3	
Radio Speaking	3	
Acting	3	
Theatre and Its Literature	3	
Persuasion	3	
Teaching of Speech and Theatre	3*	

*Public Speaking will be taken as a part of the general studies program and Teaching of Speech and Theatre will be taken in the professional education program.

THE SPECIAL EDUCATION CURRICULUM

GENERAL EDUCATION		64
PROFESSIONAL EDUCATION		22-25
Foundations of Education	3	
Audio-Visual Education	2	
Educational Psychology	3	
Methods and Techniques of Speech Correction	3*	
Student Teaching	12	
Speech and Hearing or	12	
Elementary and	6	
Mentally Retarded	6	
Professional Practicum and School Law	2	

*Methods and Techniques of Speech Correction will be taken only by those students specializing in the Speech and Hearing field of specialization.

SPECIALIZATIONS

Teaching the Mentally Retarded Speech and Hearing		
Total minimum credits required for graduation		131

TEACHING THE MENTALLY RETARDED

Hours required for the field of specialization		44-45
Required Courses for Elementary Teaching	15	
Teaching of Reading	3	
Arithmetic Content and Method	3	
Teaching the Language Arts	3	
Geography of the U.S. & Pa.	3	
Teaching the Content Subjects	3	
Elective Courses for Elementary Teaching	5 or 6	
Teaching of Music	3	
Art for Elementary Education	3	
Health & Physical Education for Elementary Grades	2	
Required Courses for Teaching Retarded Children	21	
Curriculum Planning, Material and Equipment for Retarded Children	3	
Mental Hygiene	3	
Arts and Crafts	3	
Special Class Methods (Elem.) or Special Class Methods (Sec.)	3	
Diagnostic & Remedial Reading or Diagnostic Testing & Remedial Tchg.	3	
Guidance with Emphasis on Interview- ing and Parent Education	3	
Psychology of Mental Retardation	3	
Electives	3	
Trainable Mentally Retarded		

SUGGESTED PROGRAM OF STUDIES
FOR TEACHING OF THE MENTALLY RETARDED

FIRST TRIMESTER—17 credits	
English Composition I	3
Man and His Biological World	5
Public Speaking	3
World Culture I	3
Introduction to Art	2
Physical Education I	1
SECOND TRIMESTER—17 credits	
English Composition II	3
Man and His Physical World	5
General Psychology	3
World Culture II	3
Introduction to Music	2
Physical Education II	1
THIRD TRIMESTER—17 credits	
Literature I	3
World Geography	3
Educational Psychology	3
Introduction to Philosophy	3
Educational Foundations	3
Health	2
FOURTH TRIMESTER—17 credits	
Literature II	3
Fundamentals of Math	3
Geography of U.S. and Pa.	3
Developmental Psychology I	3
Psychology of the Exceptional Child	3
Audio-Visual Education	2
FIFTH TRIMESTER—17 or 18 credits	
Psychology of Mental Retardation	3
Arts and Crafts	3
History of U.S. & Pa. Survey	3
Mental Hygiene	3
Student will select two of the following:	
Teaching of Music	3
Art of Elementary Grades	3
Health and Physical Education for the Elementary Grades	2
SIXTH TRIMESTER—16 credits	
Special Class Methods	3
Teaching of Reading	3
Teaching Content Subject	3
Teaching Language Arts	3
Arithmetic Content & Method	3
Physical Education III	1

SEVENTH TRIMESTER—14 credits		
Student Teaching in Special Education		6
Student Teaching in Elem. or Sec.		6
Professional Practicum & School Law		2

EIGHTH TRIMESTER—15 credits		
Diagnostic Testing & Remedial Tchg.		3
Diagnostic and Remedial Teaching		3
American Government		3
Guidance with Emphasis on Parent Interviewing		3
Curriculum Planning in Material and Equipment for Mentally Retarded		3

SPEECH AND HEARING AREA OF SPECIALIZATION

GENERAL EDUCATION 63

PROFESSIONAL EDUCATION 28

Foundations of Education	3
Audio-Visual Education	2
Educational Psychology	3
Psychology of the Exceptional Child	3
Student Teaching	12
Professional Practicum and School Law	2
Teaching of Reading	3

SPECIALIZATION COURSES

Hours required for the field of specialization		38
Mental Hygiene	3	
Phonetics	3	
Hearing Problems	3	
Language and Speech Development	3	
Anatomy and Physiology of Ear and Vocal Mechanism	3	
Survey of Speech Pathology	3	
Practice in Measurement of Hearing	2	
Auditory Training and Speech Reading	3	
Psychology of Speech and Hearing	3	
Introduction to Clinical Procedures	3	
Administration of Public School Programs		
Clinical Methods and Techniques	3	
Advanced Clinical Practicum	3	
Minimum credits required for graduation		129

SUGGESTED PROGRAM OF STUDIES FOR SPEECH AND HEARING

FIRST TRIMESTER—17 credits	
English Composition	3
Phonetics	3
Man and His Biological World	5
World Geography	3
Introduction to Art	2
Physical Education I	1
SECOND TRIMESTER—17 credits	
English Composition II	3
Man and His Physical World	5
Hearing Problems	3
Fundamentals of Math	3
Introduction to Music	2
Physical Education II	1
THIRD TRIMESTER—17 credits	
Introduction to Philosophy	3
General Psychology	3
World Culture I	3
Language and Speech Development	3
Anatomy and Physiology of Ear and Vocal Mechanism	3
Health	2
FOURTH TRIMESTER—17 credits	
Literature I	3
World Culture II	3
Developmental Reading	2
Physical Education III	1
Survey of Speech Pathology	3
Practice in Measurement of Hearing	2
Psychology of Speech and Hearing	3
FIFTH TRIMESTER—17 credits	
Literature II	3
Educational Psychology	3
Mental Hygiene	3
Auditory Training & Speech Reading	3
Introduction to Clinical Procedures	3
Audio-Visual Education	2
SIXTH TRIMESTER—15 credits	
Developmental Psychology	3
Clinical Methods and Techniques	3
Advanced Clinical Practice	3
Teaching of Reading	3
Foundations of Education	3
SEVENTH TRIMESTER—14 credits	
Student Teaching	12
Professional Practicum & School Law	2

EIGHTH TRIMESTER—15 credits

Public Speaking	3
Administration of Public School Program	3
Psychology of Exceptional Child	3
American Government	3
Survey of History of U.S. & Pa.	3

SPECIAL PROGRAMS FOR
TEACHER CERTIFICATION

HIGHWAY SAFETY AND DRIVER EDUCATION

Effective since September 1951, a student who holds or will hold a valid certificate to teach will be issued an additional temporary standard certificate to teach Highway Safety Education if the student has completed twelve semester hours in courses in Driver Education and Training. The temporary standard certificate so issued will become permanent after two years of successful experience in the field and the completion of three semester hours in General Safety Education.

The American Automobile Association has approved the Highway Safety Education courses offered at California State College.

DENTAL HYGIENISTS PROGRAM

GENERAL EDUCATION		53
English		12
English Composition I and II	6	
Literature I and II	6	
(American Literature or		
English Literature or		
World Literature)		
Fine Arts		4
Introduction to Art	2	
Introduction to Music	2	
Geography		6
World Geography	3	
Geography of the United		
States and Pennsylvania	3	
Social Studies		18
World Culture I	3	
World Culture II	3	
American Government	3	
Economics	3	
History of the United States		
and Pennsylvania	3	
Sociology	3	
Speech		3
Public Speaking	3	

PROFESSIONAL EDUCATION		11
Foundations of Education	3	
General Psychology	3	
Educational Psychology	3	
Audio-Visual Education	2	
ELECTIVES	10	
	Total	64

DENTAL HYGIENE

The degree of Bachelor of Science in Education will be conferred upon the dental hygienists meeting the 64 hours of general and professional education courses listed above and who holds a valid license to practice dental hygiene in the Commonwealth of Pennsylvania issued by the State Dental Council and Examining Board and the Department of Instruction. The requirement for dental hygiene is the satisfactory completion of an approved dental hygiene school, approved by the State Dental Council and Examining Board.

SCHOOL NURSING PROGRAM

GENERAL EDUCATION		27
English Composition	3	
World Literature	3	
World Culture	3	
History of the U.S. and Pa.	3	
American Government	3	
General Psychology	3	
Mental Hygiene or Psychology of Adjustment	3	
Electives in General Education	6	
PROFESSIONAL EDUCATION		12
Educational Psychology	3	
Developmental Psychology I or Developmental Psychology II	3	
Foundations of Education	3	
Principles of Guidance	3	
PUBLIC SCHOOL NURSING		15
Elective Courses:	15	
Public School Organization	3	
Public School Nursing	3	
Public Health Nursing I	3	
Public Health Nursing II	3	
Nutrition and Community Health	3	
Family Case Work	3	
Prevention and Control of Communicable Diseases	3	
ELECTIVE COURSES		6
Minimum credit hours required for graduation		60

Departmental Course Offerings



Departmental Course Offerings

ART DEPARTMENT

Mr. Douple, *Department Head*; Mr. Boak, Mr. Gabriel, Mr. Krill
Miss Onuscheck, Mrs. Wood

* Art 201 INTRODUCTION TO ART, 2 cr.

A course dealing with art as a vital part of contemporary living; art of other ages will be given some consideration as a basis for interpreting the present. Students will be encouraged to experiment with materials in order to understand the creative process. Through a variety of experiences an attempt will be made to help students develop an awareness of and a sensitiveness to all forms of art.

Three class hours each week.

Art 205 CREATIVE ART ACTIVITIES I, 3 or 4 cr.

A course which aims to develop creative experience with various art materials, techniques, and processes, and to develop experience with wood, sculpture, pottery, mosaics, and metals. Opportunity for specialization.

Prerequisite: Elem Ed 325

Four class hours each week.

Art 206 CREATIVE ART ACTIVITIES II, 3 or 4 cr.

This advanced course aims to develop creative experience with various art materials, techniques, and processes, and to develop experience with wood, sculpture, pottery, mosaics, and metals. Opportunity for specialization.

Prerequisite: Elem Ed 325

Four class hours each week.

Art 305 ART EDUCATION WORKSHOP, 3 cr.

A special problems course designed to meet the individual interests of students including exhibit techniques, program planning, observations and visitations, evaluation of elementary art programs and elementary art supervision.

Four class hours each week.

Art 311 CRAFTS FOR ELEMENTARY GRADES, 3 cr.

Experimentation with a variety of materials to discover possible use and aesthetic quality. Special emphasis will be given to playground, camp or recreational needs.

Four class hours each week.

Art 320 DRAWING AND PAINTING I, 3 cr.

An introduction to the fundamentals of painting and drawing. Instruction in pictorial representation in oil and watercolor techniques.

Four class hours each week.

Art 321 DRAWING AND PAINTING II, 3 cr.

This course emphasizes breadth of experiences, proficiency with oil, water-color and acrylic paints with opportunities to specialize in a desired media.

Four class hours each week.

Art 340 THE ART OF ASIA, 2 cr.

A specialized course in the fine arts, painting, sculpture, architecture, and the minor arts of the countries of Asia.

Three class hours each week.

Art 350 THE ART OF LATIN AMERICA, 2 cr.

A specialized course in the fine arts, painting, sculpture, architecture, and the minor arts of ancient civilization of Latin America. A study of the Inca, Maya, and Aztec cultures.

Three class hours each week.

Art 455 CONTEMPORARY ART IN AMERICA, 2 cr.

A study of the development of contemporary painting, architecture, and sculpture in the United States, with emphasis on 20th Century developments.

Three class hours each week.

Art 420 RESEARCH IN ART EDUCATION, 2 cr.

Statistical techniques used in elementary art education. An analysis of art test. Research in creative behavior; research into the problems of handicapped and exceptional children as it relates to art education.

Two class hours each week.

BIOLOGICAL SCIENCE DEPARTMENT

Dr. Bausor, *Department Head*; Dr. Anderson, Mr. Bailey, Dr. Balling, Dr. Black, Mr. Buell, Mr. Catalano, Dr. Chang, Mr. Gabor, Mr. Krueger, Dr. Lister, Mr. Little, Mr. Sepsi, Mr. Serinko, Mr. Zadorozny.

GENERAL EDUCATION

Sci 101 MAN AND HIS BIOLOGICAL WORLD, 5 cr.

The nature of living matter; general principles deduced from complexities of form and function, genetics and evolution and the implications involved in understanding life from a broad base; comparative survey of plants and animals and their interrelationships in nature.

Five classes weekly.

BIOLOGICAL SCIENCE

Biol 101 GENERAL BIOLOGY I, 4 cr.

A survey course of the non-vascular and vascular plants with emphasis on gross anatomy and physiology. Classification, reaction, environment are studied through a biochemical, phylogenetic and ecological approach.

Three classes and one two hour laboratory weekly.

Biol 102 GENERAL BIOLOGY II, 4 cr.

A continuation of Biology 101, but with a survey of the animal kingdom from the first invertebrates up to and including man. Similarities and differences of organ structures and functions studied in both courses.

Three classes and one two hour laboratory weekly.

Biol 111 BOTANY, 3 cr.

The interrelationships among plants, including a detailed evolutionary survey from algae to flowering plants, from which are deduced the nature of sexuality, energy utilizations including the photosynthetic states of protoplasm, origin of complex forms and structures such as the root, leaf, flower, seed, etc.

Two classes and one three hour laboratory weekly.

Biol 121 ZOOLOGY, 3 cr.

A comprehensive phylogenetic survey of the animal kingdom. Sufficient selected members are introduced to illustrate each phylum and evolutionary changes in complexity.

Two classes and one three hour laboratory weekly.

Biol 201 VERTEBRATE ANATOMY, 3 cr.

A study of the structure of organ systems, primarily concentrating on the cat as a mammalian type. Other chordates are used as ancillary material.

Two classes and one three hour laboratory weekly.

Prerequisite: Biol 111 and Biol 121.

Biol 221 ANIMAL PHYSIOLOGY, 3 cr.

The functions of the animal body. Basic physiological phenomena are studied with considerable emphasis upon practical application to the student's own life and well being.

Two classes and one three hour laboratory weekly.

Prerequisite: Biol 201 and Chemistry 101, 102.

Biol 240 PLANT TAXONOMY, 3 cr.

A study of the relationships among the flowering plants, and the ferns; their classification and methods of identification.

Two classes and one three hour laboratory weekly with occasional field trips.

Prerequisites: Botany and Zoology and prerequisites to any of the electives in Biology except under special arrangement.

Biol 301 MICROBIOLOGY, 3 cr.

A study of the bacteria and related organisms; their culture, morphology, identification, relationship to the disease process, and methods of public health and industry.

Two classes and one three hour laboratory weekly.

Prerequisites: Botany and Zoology are prerequisites to any of the electives in Biology except under special arrangement.

Biol 321 GENETICS, 3 cr.

A study of the principles of inheritance and their cytological foundation. Analysis of classical Mendelian crosses, mutations and other variations, cross-over, chromosome mapping, gene pools and gene distributions in natural populations.

Two classes and one three hour laboratory weekly.

Prerequisites: Botany and Zoology are prerequisites to any of the electives in Biology except under special arrangement.

Biol 341 PLANT PHYSIOLOGY, 3 cr.

Physio-chemical foundations of plant functions; water and salt absorption and translocation, photosynthesis, anabolic synthesis, respiration, correlations and growth factors, photoperiodism, and growth.

Two classes and one three hour laboratory weekly.

Prerequisites: Botany and Zoology are prerequisites to any of the electives in Biology except under special arrangement.

Biol 342 PLANT ANATOMY, 3 cr.

A detailed study of structural differentiations, especially in the higher plants; the structure of meristems and developmental changes in their derivatives.

Two classes and one three hour laboratory weekly.

Prerequisites: Botany and Zoology are prerequisites to any of the electives in Biology except under special arrangement.

Biol 361 ORNITHOLOGY, 3 cr.

A specialized study of the Class Aves; identification, migration, physics of flight, anatomical and physiological characteristics, parental care, feeding habits, vectors of disease, and evolution.

Two classes and one three hour laboratory weekly with occasional field trips.

Prerequisites: Botany and Zoology are prerequisites to any of the electives in Biology except under special arrangement.

Biol 362 ENTOMOLOGY, 3 cr.

A specialized study of the insects; identification and classification; developmental phases; physiological characteristics; economic importance; disease vectors.

Two classes and one three hour laboratory weekly with occasional field trips.

Prerequisites: Botany and Zoology are prerequisites to any of the electives in Biology except under special arrangement.

Biol 410 EMBRYOLOGY, 3 cr.

A study of oogenesis and spermatogenesis and resultant developments following fertilization; factors involved in morphogenic determination; organology; sequences of changes in development; special emphasis on the chick and pig with comparative examples of development in other animals.

Two classes and one three hour laboratory weekly.

Prerequisites: Botany and Zoology are prerequisites to any of the electives in Biology except under special arrangement.

Biol 415 ANIMAL HISTOLOGY, 3 cr.

The study of cellular differentiations in tissue; tissue identification and special functions, especially in the mammals.

Two classes and one three hour laboratory weekly.

Prerequisites: Botany and Zoology are prerequisites to any of the electives in Biology except under special arrangement.

Biol 416 CYTOLOGY, 3 cr.

A detailed study of organelles of plants and animal cells; special biochemical techniques and some electron microscopy for ultra-fine structures.

Two classes and one three hour laboratory weekly. Prerequisites: Botany and Zoology are prerequisites to any of the electives in Biology except under special arrangement.

Biol 420 ECOLOGY, 3 cr.

A study of the natural biota; its relationship to climatic and geological conditions, and to its component plant and animal members; stability and changes in associations and factors involved.

Two classes and one three hour laboratory weekly with occasional field trips.

Prerequisites: Botany and Zoology are prerequisites to any of the electives in Biology except under special arrangement.

Biol 430 RADIATION BIOLOGY, 2 cr.

Biophysical processes involved in the absorption of radiation by living systems; the physio-chemical production of radiations and the nature of fundamental particles. Provides necessary background for special certification in Adult Education.

Two classes weekly.

Prerequisites: Botany and Zoology are prerequisites to any of the electives in Biology except under special arrangement.

Biol 481 INTRODUCTION TO RESEARCH I, 1 cr.

Given a problem in biology (or one of his own choice) the student will survey the literature, and organize a program that might lead to its solution, and undertake a few experiments as time permits.

Prerequisites: Botany and Zoology are prerequisites to any of the electives in Biology except under special arrangement.

Biol 482 INTRODUCTION TO RESEARCH II, 1 cr.

A continuation of Biol. 481, permitted only in special cases of merit.

Biol 495 SEMINAR IN BIOLOGY, 2 cr.

Round table discussions of selected topics in biology; reports from original literature both current and classical.

Two hours weekly.

Prerequisites: Botany and Zoology are prerequisites to any of the electives in Biology except under special arrangement.

EDUCATIONAL FOUNDATIONS DEPARTMENT

DR. PROUD, *Department Head*; Dr. Daniels, Dr. Hoyes, Mr. Huffington, Mr. Jones, Mr. Lebois, Mr. Natali, Mr. Orlandi, Mr. Richards.

Ed 1 REMEDIAL READING, no credit.

Ed 100 FRESHMAN ORIENTATION, no credit

Opportunity to help in problems of personal adjustment and for discussion of the nature, objectives, traditions and regulations of the college are provided. Basic materials for student's personal files are prepared in orientation classes. Required for all entering freshman.

Two hours each week for first six weeks.

Ed 101 FOUNDATIONS OF EDUCATION, 3 cr.

Studying the social, philosophical, and historical foundations of education; this is an orientation and guidance course acquainting prospective teachers with the opportunities and requirements of the progression; the relationship of the school to society; the organization and administration of the American School System. Extensive directed observation of various schools and learning situations will be required. Acceptable as credit for Introduction to Teaching.

Three class hours each week.

Ed 102 DEVELOPMENTAL READING, 2 cr.

The purpose of this course is to develop reading and study skills at the college level. Special objectives are the development and reinforcement of abilities to select judiciously, to read critically, to interpret cogently, to appreciate fully, and to adapt flexibility of reading rate and method to various kinds of materials and to different purposes in reading.

Two class hours each week.

Ed 301 AUDIO-VISUAL EDUCATION, 2 cr.

The need for sensory techniques and materials in the learning process with attention to the psychological principles involved are given major consideration in this basic course. Activities include the production of inexpensive audio-visual aids, the limited use of selected aids, and an understanding of the best sources of teaching materials. May not be taken by freshmen or sophomores.

Three class hours each week.

Ed 302 AUDIO-VISUAL WORKSHOP, 2 cr.

An opportunity for more intensive study in the Audio, Visual and Audio-Visual field with greater possibilities for the application of techniques involving sensory aids. Direct laboratory experiences involving machine competency and problem-solving situations are a major consideration. Motion picture film library experience is required. Special skills and abilities correlating this field provide areas for individual study.

Prerequisite: Audio-Visual Education or consent of the instructor.

Three class hours each week.

Ed 350 TEACHING READING IN CONTENT SUBJECTS, 2 cr.

The techniques of teaching reading in the content areas. The prospective teacher will gain knowledge concerning general reading practices and specific reading skills necessary in his area of specialization.

Two class hours each week.

Ed 455 STUDENT TEACHING WORKSHOP, 6 cr.

For teachers with three or more year's experience who are candidates for degrees and who have not completed the required number of trimester hours in student teaching. After consultation with the Dean of Teacher Education and the Director of Student Teaching, the student will be assigned to a course suitable to his needs without duplicating courses already accredited. A student who has changed curriculums may not use the course to satisfy the student teaching requirements; he must earn at least six semester hours in accredited student teaching at the appropriate level.

Ed 470 CLINICAL OBSERVATION AND PRACTICE IN EDUCATIONAL THERAPY, 6 cr.

The California State College, through an official affiliation with the Veterans Administration, prepares men and women as Manual Arts Therapists, Industrial Therapists, and Educational Therapists for employment under Civil Service Regulations in Veterans Administration Hospitals throughout the United States.

Students enrolled in the Industrial Arts Curriculum will qualify for positions in Manual Arts and/or Industrial Therapy by indicating such an interest prior to student teaching. Men and women in college curriculums other than industrial arts, may qualify as educational therapists. This preparation can be obtained without sacrificing certification in teaching.

In order to meet the requirements for employment in the Veterans Administration as Manual Arts Therapists, Industrial Therapists, or Educational Therapists, students must complete 240 clock hours of clinical laboratory experience in the Leech Farm Veterans Administration Hospital. This complete program may be taken in any one of the six-weeks student teaching assignments, or six-weeks summer program.

ELEMENTARY EDUCATION DEPARTMENT

Dr. Miller, *Department Head*; Miss Anderson, Miss Baliker, Mrs. Barry, Miss Dalaidi, Dr. DeCarlo, Mrs. Fern, Mr. Herron, Dr. Hubrig, Dr. Kaiser, Mr. Kennedy, Mr. Kulikowski, Dr. Nelson, Dr. Pankey, Mr. Synder, Mrs. Weaver.

*Indicates Professional Trimester Courses.

*Elem Ed 303 TEACHING OF READING, 3 cr.

The several aspects of problems in the teaching of reading in all elementary grades. Presentation in theory and practice, from careful examination of research and from observation, opportunity for the student to acquaint himself with a variety of modern reading materials and with approved techniques in their use.

Prerequisite: Educational Psychology.

Three class hours each week.

*Elem Ed 305 ARITHMETIC CONTENT AND METHOD, 3 cr.

The various processes and operations in the arithmetic of the elementary school are carefully analyzed to determine which should be taught at each grade or development level and how they may be taught most effectively. Opportunities for observation and participation in actual teaching situations are provided. Stress is placed on understanding of concepts of modern trends in mathematics such as sets, inequalities, number line, numeral systems, modular arithmetic, field postulates, and results of research in arithmetic.

Prerequisite: Fundamentals of Mathematics.

Three class hours each week.

*Elem Ed 310 TEACHING HEALTH AND PHYSICAL EDUCATION FOR ELEMENTARY GRADES, 2 cr.

Elementary school teachers are constantly called upon to supervise and plan programs for recreation or curriculum purposes. This course is planned to give the necessary background and experience in health and physical education on the elementary school level.

Two class hours each week.

Elem Ed 321 FUNDAMENTALS OF MUSIC, 2 cr.

Designed to prepare the elementary teacher in basic fundamentals and skills. It includes the study of note values, meter signatures, scales, key signatures, plus the use of syllables in reading music. A basic introduction to the piano keyboard is also included.

Two class hours each week.

This course is highly recommended as a prerequisite for Elem Ed 370. Teaching Music in the Elementary Grades.

Elem Ed 325 ART FOR ELEMENTARY GRADES, 2 cr.

A survey of the philosophy, psychology and trends in art education as it relates to the elementary grades.

Two or three class hours each week.

Elem Ed 351 CHILDREN'S LITERATURE I, 2 cr.

A survey of those poems and stories known as children's literature, with the selection of appropriate material for use in the elementary grades. To assist teachers in evaluating the reading which the child enjoys, criteria for every type of reading are presented.

Three class hours each week.

Elem Ed 352 CHILDREN'S LITERATURE II, 3 cr.

This course which is designed as an extension of Children's Literature I has its underlying philosophy that children's growth in and through reading is dependent on developing lasting interests in reading. An emphasis on ways in which teachers can use literature in the classroom to meet children's needs and interests, to deepen their insights about the world and human relationships, and to heighten their appreciation of fine literature which must have its roots enmeshed in the reading program will be a prime focal point.

Prerequisite: Children's Literature I.

Three class hours each week.

Elem Ed 353 DIAGNOSTIC AND REMEDIAL READING, 3 cr.

An examination of the techniques of diagnosing reading difficulties and of determining appropriate remedial treatment. Opportunity is given for observing and participating in procedures in a clinic situation.

Prerequisite: The Teaching of Reading.

Three class hours each week.

*Elem Ed 355 TEACHING OF LANGUAGE ARTS, 2 cr.

Survey of the content of the curriculum in English in the elementary grades. Methods of teaching oral and written compositions, principles of grammar, poetry and literature. The teaching of handwriting is part of this course.

Three class hours each week.

Elem Ed 358 EARLY CHILDHOOD EDUCATION, 3 cr.

A study of pre-school, kindergarten, and primary grade activities in the traditional and activity school programs, with a sound evaluation of the practical aspects of the latter. Opportunity is provided for the administering of readiness tests.

Three class hours each week.

*Elem Ed 370 TEACHING MUSIC IN THE ELEMENTARY GRADES, 2 cr.

A course designed to demonstrate proper techniques of teaching music to children. Includes the study of much source material and its proper application in the classroom. Covers procedures in all grades, kindergarten through sixth, in such activities as the use of rhythm instruments, records, part singing, singing games, dances and creative work. College students develop proven techniques and procedures through actual teaching experiences in a typical classroom situation.

Prerequisite: Music for the Elementary Grades.

Three class hours each week.

*Elem Ed 375 TEACHING OF ART IN ELEMENTARY GRADES, 2 cr.

Development of problems suitable for the elementary grades. Emphasis is placed upon the intergration of art education with other school subjects.

Three class hours each week.

Elem Ed 380 READING AND LANGUAGE ARTS SEMINAR, 3 cr.

Techniques in research writing will be emphasized. The student will do research on a current topic in reading and language arts and present a written paper in Turabian style. The student will prepare an oral presentation of his research to present before the faculty in reading and language arts.

Prerequisite: Teaching of Reading.

*Elem Ed 406 TEACHING THE CONTENT SUBJECTS, 3 cr.

Provides the elementary teacher with a comprehensive course in methods common to such areas of instruction as geography, social studies, and science. The student will be afforded an opportunity to investigate a variety of topics related to good teaching procedures, hear them discussed, and observe them in practice. Visits to various area schools, visits by area elementary educators, and opportunities to handle some of the most recent educational materials are included in this course.

Three class hours each week.

Elem Ed 450 STUDENT TEACHING, 12 cr.

Observation and participation in all teaching and activities related to the performance of a teacher's work in the elementary grades.

Prerequisite: Completion of the Professional Trimester and admission to Teacher's Education.

Elem Ed 451 PROFESSIONAL PRACTICUM AND SCHOOL LAW, 2 cr.

Methods and practices of teaching. General techniques of teaching in the elementary curriculum. Pennsylvania school laws relevant to the work of the classroom teacher. Problems encountered by the students in their student teaching.

Two class hours each week.

ENGLISH DEPARTMENT

Dr. Watkins, *Department Head*; Miss Andrews, Mr. Bennett, Mr. Blayney, Dr. Bloemaker, Dr. Coleman, Dr. Crockett, Mr. Cutshall, Dr. Edwards, Mr. Ferris, Mr. Francis, Mr. Gogoj, Mr. Goodstein, Mr. Grimes, Mr. Halboth, Mr. Herron, Mrs. Hibbs, Mr. Knight, Mr. Korcheck, Mr. Lawrence, Mr. Limbacher, Mr. Lizak, Miss Maatta, Dr. Major, Mr. McPaul, Mr. McVey, Miss Rakestraw, Mr. Rea, Mr. Simpson, Mr. Smith, Mr. Thomas, Dr. Walker, Mr. Wilson, Dr. Wilson, Mr. Wise, Mr. Wodock.

✓ Eng 101 ENGLISH COMPOSITION I, 3 cr.

A basic course, required of all students their first trimester, in language, literature, and written composition.

Three class hours each week.

✓ Eng 102 ENGLISH COMPOSITION II, 3 cr.

Continuation of Composition I. Required of all students immediately upon the completion of Composition I.

Prerequisite: Composition I

Three class hours each week.

Eng 110 CO-CURRICULAR ACTIVITIES—PUBLICATIONS, 1 cr.

Under certain conditions credit can be made available to students working for official student publications—The California Times, The Monocal, and Pegasus.

Eng 111 CO-CURRICULAR ACTIVITIES—PUBLICATIONS, 1 cr.

Under certain conditions credit can be made available to students working for official student publications—The California Times, The Monocal, and Pegasus.

Eng 112 CO-CURRICULAR ACTIVITIES—PUBLICATIONS, 1 cr.

Under certain conditions credit can be made available to students working for official student publications—The California Times, The Monocal, and Pegasus.

Eng 150 AMERICAN LITERATURE, 3 cr.

An introductory survey, from the beginnings to the present.

Not regularly offered.

Three class hours each week.

✓ Eng 151 AMERICAN LITERATURE I, 3 cr.

An introductory survey, through 1865. May be taken before or after American Literature II, or independently of it.

Three class hours each week.

✓ Eng 152 AMERICAN LITERATURE II, 3 cr.

An introductory survey, from 1865 to present. May be taken before or after American Literature I, or independently of it.

✓ Eng 201 WORLD LITERATURE I, 3 cr.

Acquaints the student in some depth with a limited number of books that are at the same time masterpieces of literature and representative of the chief integral elements in world culture from the beginnings to 1400 A. D.

Required of all students (English majors should take it in their Freshman year). Best taken concurrently with Social Studies 201; World Culture I, a complementary course also required of all students; may be taken before or after English 202; World Literature II, or independently of it.

Three class hours each week.

 Eng 202 WORLD LITERATURE II, 3 cr.

A continuation of World Literature I, from 1400 A. D. to the present. Required of all students (English majors should take it in their Freshman years). Best taken concurrently with Social Studies 202: World Culture II, a complementary course also required of all students; may be taken either before or after English 201: World Literature I, or independently of it.

Three class hours each week.

Eng 210 ENGLISH LITERATURE, 3 cr.

An introductory survey, from the beginnings to the present.

Not regularly offered.

Three class hours each week.

Eng 211 ENGLISH LITERATURE I, 3 cr.

An introductory survey, to 1789. May be taken before or after English Literature II, or independently of it.

Three class hours each week.

Eng 212 ENGLISH LITERATURE II, 3 cr.

An introductory survey, from 1798 to present. May be taken before or after English Literature I, or independently of it.

Three class hours each week.

Eng 251 ENGLISH PHILOLOGY AND GRAMMAR, 3 cr.

The course attempts to give some knowledge of the history of English as a language and to acquaint the student with the use of the larger dictionaries. The main body of the course is concerned with a systematic study of grammar, with emphasis on its more functional aspects.

Prerequisite: Composition I and II

Three class hours each week.

Eng 252 ADVANCED COMPOSITION, 3 cr.

Advanced experience in writing is afforded through the preparation of review, and critical reports, employing expository and argumentative techniques.

Prerequisite: Composition I and II

Twelve credits in English courses numbered in the 300's must be

Three class hours each week.

elected by Secondary Education and Arts and Science English majors.

Eng 311 OLD AND MIDDLE ENGLISH LITERATURE, 3 cr.

An introduction to Old English writings including the *Beowulf*, in translation, and to some of the chief writings in Middle English, such as those of Gower and Malory.

Prerequisite: English Literature I

Three class hours each week.

Eng 312 CHAUCER, 3 cr.

A study of the works of this author in relation to his times, with special emphasis on *The Canterbury Tales* and *Criseyde*.

Prerequisite: English Literature I

Three class hours each week.

Eng 313 THE DEVELOPMENT OF THE ENGLISH DRAMA, 3 cr.

A study of the folk and liturgical origins of English drama and of its development and chief exemplars (exclusive to Shakespeare) to the closing of the theatres in 1640.

Prerequisite: English Literature I.

Three class hours each week.

Eng 314 ELIZABETHAN LITERATURE, 3 cr.

A course in the prose, poetry, and drama (exclusive of Shakespeare) of the English Renaissance. Major writers include Spenser, Sidney, Marlowe, and Jonson.

Prerequisite: English Literature I.

Three class hours each week.

Eng 316 SEVENTEENTH CENTURY LITERATURE, 3 cr.

Bacon, Jonson, Donne, Herbert, Marvell, Walton, and other poets and prose writers of the Stuart and Commonwealth periods.

Prerequisite: English Literature I

Three class hours each week.

Eng 317 MILTON, 3 cr.

A study of Milton, his times, and his works, including the early poems, *Paradise Lost*, *Paradise Regained*, *Samson Agonistes*, and such still timely prose works as his tractates on censorship (*Areopagitica*), divorce and education.

Prerequisite: English Literature I.

Three class hours each week.

Eng 318 RESTORATION AND EIGHTEENTH CENTURY LITERATURE, 3 cr.

A critical study of literary works of the Restoration and eighteenth century with emphasis on major figures like Defoe, Bunyan, Dryden, Congreue, Smollett, Swift, Sterne, Pope, Fielding.

Prerequisite: English Literature I.

Three class hours each week.

Eng 315 AMERICAN PURITANS, 3 cr.

This course would consider the poetry and prose, including sermons of Bradfor, Bradstreet, Williams, Winthrop, Taylor, Cotton Mather, Sewall and Edwards.

Three class hours each week.

Eng 320 AMERICAN PROSE FROM 1800 TO 1860, 3 cr.

The novel, short story, and essay as practiced by C. B. Brown, Irving Cooper, Emerson, Thoreau, Poe, Hawthorne, and Melville.

Three class hours each week.

Eng 321 AMERICAN NOVEL FROM 1860 TO PRESENT, 3 cr.

With such writers available as Twain, Harris, Garland, James, Wharton, Dreiser, Norris, Howells, Crane, Lewis, Fitzgerald, Hemingway, Faulkner, Mailer, Salinger and Bellow, an instructor could arrange either a survey of the whole period or emphasis on a particular portion of the period. He could, for example, emphasize the novels of social protest or the naturalistic novels written during this period.

Three class hours each week.

Eng 322 AMERICAN DRAMA, 3 cr.

This course would trace the steady development of American Drama through the works of O'Neill, Rice, Hellman, Sherwood, T. Williams, Miller, Inge, Olds, Saroyan, Albee, Kopit, and Wilder.

Three class hours each week.

Eng 323 CONTEMPORARY AMERICAN POETRY, 3 cr.

This course would consider the work of Robinson, Dickinson, Frost, Auden, Williams, Cummings, Jeffers, Eliot, Pound, Moore, R. Lowell and H. Crane.

Three class hours each week.

Eng 335 ROMANTIC MOVEMENT, 3 cr.

A study of the poetry of Wordsworth, Coleridge, Byron, Shelley, and Keats, and of some of their contemporaries in the light of the background of the age and biographical and critical doctrine.

Prerequisite: English Literature II.

Three class hours each week.

Eng 336 VICTORIAN LITERATURE, 3 cr.

Victorian culture and the Victorian frame of mind, from around 1830 to around 1900, as reflected in such poets as Tennyson, Browning, and Arnold and in such prose writers as Carlyle, Mill, and Dickens.

Prerequisite: English Literature II.

Three class hours each week.

Eng 341 THE NOVEL TO 1870, 3 cr.

The rise and development of the novel in English from its beginnings in the eighteenth century. A selected list of novels is assigned for analysis with a view to cultivating an appreciation of this dominant literary form.

Prerequisite: Composition I and II.

Three class hours each week.

Eng 342 CONTEMPORARY NOVEL, 3 cr.

A study of modern and contemporary movements in fiction based on the critical reading and analysis of English and American novels published since 1870.

Prerequisite: Composition I and II.

Three class hours each week.

Eng 351 THE SHORT STORY, 3 cr.

The development of the Short Story as a distinct and distinguished literary form is traced through its history and technique. Techniques of fiction are given through analysis in order to prepare the student for analysis of the novel. Recommended as preparation for Eng. 341 "The Novel to 1870," and Eng. 342, "Contemporary Novel."

Prerequisite: Composition I and II.

Three class hours each week.

Eng 352 CREATIVE WRITING, 3 cr.

For students of marked ability in the creative processes of writing; may be substituted by such students for English 252. The course aims to develop creative ability and improve the student's own style.

Prerequisite: Composition I and II.

Three class hours each week.

Eng 362 CONTEMPORARY POETRY, 3 cr.

First of all a course in reading poetry, reading for pleasure and for understanding; finally a study of the origins of Twentieth century poetry and its present day trends.

Prerequisite: Composition I and II.

Three class hours each week.

Eng 372 MODERN DRAMA, 3 cr.

Study of the new dramatic literature of Europe and America. Representative plays for reading from Ibsen and Shaw to Becket and Albee. 20 plays.

Prerequisite: Composition I and II.

Three class hours each week.

Eng 401 LITERARY CRITICISM, 3 cr.

A study of theoretical criticism and an introduction to the practice of criticism. Best taken in seventh or eighth trimester.

Prerequisite: see "The English Major" above.

Three class hours each week.

Eng 405 SHAKESPEARE, 3 cr.

Assuming the basis for study provided by Eng. 151, 152, 211, and 212 and other courses required in the freshman and sophomore years of Secondary Education and Arts and Science, English majors, this course is designed especially for 6th, 7th, or 8th trimester study by such students.

It explores in considerable depth, and with special reference to the conditions of Shakespeare's times and theatre, some of his greatest plays of all types, especially (a) those most often studied in secondary school and (b) his great tragedies.

Prerequisite: see "The English Major" above.

Three class hours each week.

Eng 490 HONORS COURSE IN ENGLISH, 3 cr.

This course is offered to individual students of outstanding ability or to such students in small seminar groups. The work includes the study of a single great writer or the study of special problems in literature. Permission must be secured to take English 490 from the Department Chairman and the Dean of the College.

Given by arrangement.

Eng 491 HONORS COURSE IN ENGLISH, 3 cr.

This course is offered to individual students of outstanding ability or to such students in small seminar groups. The work includes the study of a single great writer or the study of special problems in literature. Permission must be secured to take English 491 from the Department Chairman and the Dean of the College.

Given by arrangement.

Eng 492 HONORS COURSE IN ENGLISH, 3 cr.

This course is offered to individual students of outstanding ability to such students in small seminar groups. The work includes the study of a single great writer or the study of special problems in literature. Permission must be secured to take English 492 from the Department Chairman and the Dean of the College.

Given by arrangement.

Eng 495 SEMINAR IN ENGLISH, 1 cr.

This course is intended to allow the student to study special problems in English. Permission by arrangement with the Department Chairman.

Offered as required.

GEOGRAPHY AND EARTH SCIENCE

Mr. Anthony, *Department Head*; Dr. Betz, Mr. Cox, Mr. Furbush, Mr. Goetz, Dr. Harsh, Mr. Leavy, Mr. Leiker, Mr. Minnick, Mr. Orsag, Mr. Procasky, Mr. Tomikel, Mrs. Van Dongen.

Geo 100 WORLD GEOGRAPHY I, 3 cr.

A basic course organized to develop a knowledge and appreciation of the physical factors of the environment and man's adjustment to them. World patterns of land forms, climate, soils, vegetation, etc., are emphasized in relation to man's economic and cultural activities.

Three class hours each week.

Geo 101 WORLD GEOGRAPHY II, 3 cr.

This course is designed for students wishing to broaden their knowledge and understanding of the world's culture regions as seen from the geographer's point of view.

Prerequisite: World Geography I.

Three class hours each week.

Geo 151 PHYSICAL GEOLOGY, 4 cr.

A study of the materials, structures, surface features of the earth and processes which have produced them. Course work includes: study of rocks and minerals, topographic maps and models. Field trips are an integral part of the course.

Prerequisite: World Geography I.

Three hours lecture and a two hour lab each week.

Geo 152 HISTORICAL GEOLOGY, 4 cr.

A study of the geologic history of the earth and the succession of the major groups of plants and animals as based on the geologic interpretation of rock formations and fossils. Field trips are an integral part of the course.

Prerequisite: Physical Geology or permission of instructor.

Three hours lecture and a two hour lab each week.

Geo 157 DESCRIPTIVE ASTRONOMY, 3 cr.

Recognition of the various elements of the solar system, their physical characteristics and motions, the phenomena of the galactic system and the extragalactic space and the constellations, with a consideration of the mathematical phases generally omitted from studies of the kind.

Three class hours each week.

Geo 200 ECONOMIC GEOGRAPHY, 3 cr.

The geographical bases for the production, manufacture and distribution of the earth's resources and the relationships arising as man engages in making a living.

Prerequisite: World Geography I.

Three class hours each week.

Geo 220 UNITED STATES AND PENNSYLVANIA, 3 cr.

The physiography, climate, vegetation, population, land utilization, production and trade of the various regions of the United States and the Commonwealth of Pennsylvania. The first part of the course deals with Pennsylvania, and through its economic position within the States, proceeds logically to an analysis of the nation as a whole.

Prerequisite: World Geography I.

Three class hours each week.

Geo 243 CONSERVATION OF NATURAL RESOURCES, 3 cr.

Emphasizes the development of a working philosophy of conservation and the use of the various types of natural resources. The relationship between loss and waste in the varied uses of the natural resource, as in processing, production, transportation, and/or maintenance, will be considered.

Prerequisite: World Geography I or permission of Instructor.

Three class hours each week.

Geo 251 MINERALOGY (ROCKS AND MINERALS), 4 cr.

Stresses the identification of the common and economically important rocks and minerals. Physical and chemical identification techniques are studied.

Prerequisite: Physical Geology or permission of Instructor.

Three hours lecture and two hour lab each week.

Geo 252 ECONOMIC GEOLOGY, 3 cr.

The composition, distribution, and exploitation of the common economic rocks and minerals are studied. The first half of the course covers metallic minerals, the second half, the non-metallic minerals. Field trips are a part of the course work.

Prerequisite: Physical Geology.

Three class hours each week plus field trips.

Geo 254 METEOROLOGY, 3 cr.

An introduction to the physics of the atmosphere, approached from the standpoint of earth-atmosphere interaction. The effects of the physical controls such as land and water distribution upon weather and climate is emphasized. Weather map analysis and weather observations are integral parts of the course.

Prerequisite: World Geography I or permission of Instructor.

Two hours lecture and a two hour lab each week.

Geo 255 CLIMATOLOGY, 3 cr.

A systematic study of the climatic regions of the world and the advantages and limitations of each for man's occupation. The physical aspects of the atmosphere and the regional characteristics of climate are examined.

Prerequisite: Meteorology or permission of Instructor.

Three class hours each week.

Geo 260 PHYSICAL GEOGRAPHY, 3 cr.

A study of the physical elements in the geographic pattern of man's environment. Introductory phases of systematic geography. Field problems are an integral part of the course.

Prerequisite: World Geography I.

Three hours lecture each week plus field trips.

Geo 261 GEOMORPHOLOGY, 3 cr.

The study of the history, origin, and characteristics of land forms produced by weathering, fluvial, glacial, wind, and wave erosion, or by a combination of these acting upon the major kinds of geologic materials and structures.

Prerequisite: Physical Geology or permission of instructor.

Two hours lecture and a two hour lab each week.

Geo 301 COMMERCIAL AND INDUSTRIAL GEOGRAPHY, 3 cr.

A geographic analysis of the factors involved in the production and distribution of economic goods. Local and world patterns of commerce and industry and their effect on national and international affairs are studied.

Prerequisite: World Geography I and Economic Geog.

Three class hours each week.

Geo 302 TRADE AND TRANSPORTATION, 3 cr.

National and International trade, transportation routes, and transportation centers.

Prerequisite: World Geography I and Economic Geog.

Three class hours each week.

Geo 303 COMMERCIAL AIR TRANSPORTATION, 3 cr.

The geographic factors which have determined commercial air centers and routes. The effects of national and international controls are considered.

Prerequisite: World Geography I and Economic Geog.

Three class hours each week.

Geo 310 URBAN GEOGRAPHY, 3 cr.

An analysis of cities in selected regions: classification, location, distribution, function and growth; types and patterns of land use. Geography in city planning will culminate the study.

Prerequisite: World Geography I and Economic Geog.

Three class hours each week.

Geo 320 GEOGRAPHY OF THE UNITED STATES AND CANADA, 3 cr.

A regional study of the United States and Canada, considering man's adjustment to the physical factors of relief, climate, soil, vegetation and mineral resources. Political structure, and the relationships between the two countries and the rest of the world are analyzed from a geographic point of view.

Prerequisite: World Geography I.

Three class hours each week.

Geo 322 GEOGRAPHY OF PENNSYLVANIA, 3 cr.

A regional analysis of Pennsylvania, emphasizing man's cultural and economic response to environmental factors. Field trips are an integral part of the course.

Prerequisite: World Geography I.

Three class hours each week.

Geo 323 GEOGRAPHY OF LATIN AMERICA, 3 cr.

The effects of the physical environment of Latin America upon the activities of man. Effects of the historical background, types of governments, and ethnic backgrounds of the peoples upon the development of the natural resources of Latin America. The study is regional by nations.

Prerequisites: World Geography I.

Three class hours each week.

Geo 325 GEOGRAPHY OF EUROPE, 3 cr.

Europe's natural and political regions, emphasizing the complexity of the continent's natural and cultural landscape, and the effect they have had on the occupants past and present.

Prerequisite: World Geography I.

Three class hours each week.

Geo 329 GEOGRAPHY OF ASIA, 3 cr.

A regional study of the continent of Asia. An analysis of the political subdivisions will be made from the standpoint of cultural and political changes, as influenced by the physical nature of each nation. The significance of these changes in world relations is stressed.

Prerequisite: World Geography I.

Three class hours each week.

Geo 330 GEOGRAPHY OF THE SOVIET UNION, 3 cr.

A regional study of the physical and cultural features of the Soviet Union. The emphasis is placed upon those factors responsible for the current position of the Soviet Union as a major world power, and upon potential future development.

Prerequisite: World Geography I.

Three class hours each week.

Geo 331 GEOGRAPHY OF THE FAR EAST, 3 cr.

The natural environment of China, Japan, Southeastern Asia, Korea, and man's adjustments economically, politically, and socially.

Prerequisite: World Geography I.

Three class hours each week.

Geo 333 GEOGRAPHY OF AFRICA, 3 cr.

A regional study of Africa, showing the social and economic development of these lands in relation to their physical environment. The importance of Africa to the world, and the effect thereon of emergent nationalism in an African torn by strife are studied.

Prerequisite: World Geography I.

Three class hours each week.

Geo 334 GEOGRAPHY OF THE PACIFIC BASIN, 3 cr.

Lands and people of the great ocean. Particular attention is given to Australia, Indonesia, New Zealand and the Philippines.

Prerequisite: World Geography I.

Three class hours each week.

Geo 341 HISTORICAL GEOGRAPHY, 3 cr.

A study of the interrelationships between the natural environment and the historical development of the United States. The attraction of North America for colonization, the expansion from sea to sea, the absorption of millions of immigrants, the schism and refusion of the nation, the development of resources to a position of world power are considered.

Prerequisites: World Geography I, Geography of the U.S. and Pa., History of the U.S.

Three class hours each week.

Geo 342 POLITICAL GEOGRAPHY, 3 cr.

A political geography giving attention to the problem of State, internal and external, as influenced by the human and natural resources.

Prerequisites: World Geography I, Economic Geography, and at least one regional course.

Three class hours each week.

Geo 351 STRATIGRAPHY, 4 cr.

A study is made of the basic principles governing the interpretation, correlation, classification, and naming of stratified rock units. The stratigraphy of the Pennsylvania System is emphasized.

Prerequisites: Historical Geology or permission of Instructor.

Three hours lecture and two hour laboratory each week.

Geo 352 STRUCTURAL GEOLOGY, 4 cr.

The primary and secondary structures of rock masses and their modes of formation are covered in this course. Actual structures are examined in the field. Geologic maps are utilized.

Prerequisites: Physical Geology.

Three hours lecture and two hour laboratory each week.

Geo 358 OCEANOGRAPHY, 3 cr.

An introduction to the physical nature of the ocean, its topography and circulation. Chemical and physical nature of ocean water. Marine sedimentation. Biotic environments. Relation to biological, geographical, geologic and economic problems, including fisheries.

Prerequisites: World Geography I.

Three class hours each week.

Geo 370 MAP APPRECIATION AND INTERPRETATIONS, 3 cr.

A non-technical laboratory course designed to develop competence in map use and evaluation. The history of maps; use and interpretation of globes, cartograms, diagrams and topographic maps; theory of map construction, and the application of maps and mapping techniques to teaching will be stressed. Cannot be substituted for Geography 372.

Prerequisites: World Geography I and permission of Instructor.

Two hours lecture and two hours laboratory each week.

Geo 372 CARTOGRAPHY, 3 cr.

A laboratory course designed to develop competence in the compilation, design, and execution of maps, charts, and diagrams. The use of tools, sources of data, methods of reproduction and application of maps will be stressed. Cannot be substituted for Geography 370.

Prerequisite: World Geography I and permission of Instructor.

Two hours lecture and two hours laboratory each week.

Geo 375 MAP AND AERIAL PHOTOGRAPH INTERPRETATION, 3 cr.
An intensification and amplification of cartographic-methods to include statistical representation, map reproduction, and familiarization with technical equipment. The use of maps and aerial photographs as sources of quantitative and qualitative information. The principles of image identification, simple photogrammetric measurements, mapping from aerial photographs and interpretation of the natural and cultural landscape.

Prerequisite: Geography 372 Cartography.

Two hours lecture and two hour laboratory each week.

Geo 401 SPECIAL PROBLEMS IN GEOGRAPHY, EARTH SCIENCE OR GEOLOGY I, 1 cr.

Development of individual research problems by majors. Does not replace any course regularly given.

Prerequisite: Permission of Staff.

Hours to be arranged.

Geo 402 SPECIAL PROBLEMS IN GEOGRAPHY, EARTH SCIENCE OR GEOLOGY II, 2 cr.

Development of individual research problems by majors. Does not replace any course regularly given.

Prerequisite: Permission of Staff.

Hours to be arranged.

Geo 403 SPECIAL PROBLEMS IN GEOGRAPHY, EARTH SCIENCE OR GEOLOGY III, 3 cr.

Development of individual research problems by majors. Does not replace any course regularly given.

Prerequisite: Permission of Staff.

Hours to be arranged.

Geo 420 SUMMER FIELD COURSE I, 1 cr.

Planned trips in summer sessions, during which lectures and discussions are conducted.

Open to all students.

Geo 421 SUMMER FIELD COURSE II, 2 cr.

Planned trips in summer sessions during which lectures and discussions are conducted.

Open to all students.

Geo 422 SUMMER FIELD COURSE III, 3 cr.

Planned trips in summer sessions, during which lectures and discussions are conducted.

Open to all students.

Geo 430 FIELD METHODS IN GEOGRAPHY, EARTH SCIENCE OR GEOLOGY, 3 cr.

An intensive micro-geographic-geologic study through actual field work. An advanced course; permission of staff required for registration.

One hour lecture and 4 to 8 hours field work each week.

Geo 490 HONORS COURSE IN GEOGRAPHY I, 3 cr.
Directed reading and research in field of interest chosen by student in consultation with the instructor.

Prerequisites: Provisions of the Honors Program of the college. Approval staff of the department.

Weekly meeting with instructor to be arranged.

Geo 491 HONORS COURSE IN GEOGRAPHY II, 3 cr.
Continued, but individual, research on particular topic chosen from field of interest studied in Geography 490. Comprehensive oral and written examination by staff near close of this trimester.

Prerequisites: Geography 490.

Weekly meeting with instructor to be arranged.

Geo 492 HONORS COURSE IN GEOGRAPHY III, 3 cr.
The writing of an undergraduate thesis based upon the work of Geography 490 and 491. Comprehensive oral examination by faculty near close of this trimester.

Prerequisite: Geography 491.

Weekly meeting with instructor to be arranged.

Geo 495 SEMINAR IN GEOGRAPHY, EARTH SCIENCE, AND GEOLOGY, 3 cr.

An introduction to the literature, philosophy, techniques, and research methods of geography and/or earth science.

HEALTH AND PHYSICAL EDUCATION HIGHWAY AND DRIVER SAFETY DEPARTMENT

Mr. Hester, *Department Head*; Miss Knill, Miss McConnell, Miss Martin, Mr. Nemeth, Mr. Ross, Mr. Scott, Mr. Shuler, Mr. Slick, Mr. Sweeney, Mr. Uher, Mr. Vulcano, Mr. Witchey, Miss Zondos.

HEALTH AND PHYSICAL EDUCATION

✓ H & PE 101 PHYSICAL EDUCATION I—MEN, 1 cr.

The purpose is to help students attain a high degree of physical fitness through a program which includes seasonal sports. The development of those skills which may be carried on in college and after college life.

Two class hours each week.

H & PE 102 PHYSICAL EDUCATION I—WOMEN, 1 cr.

An introductory course emphasizing fitness, fundamental motor skills, volleyball, and basic swimming skills.

Two class hours each week.

* H & PE 105 HEALTH, 2 cr. Co-Ed or Separate—Required

Consideration is given to the health, knowledge, attitudes and practices with the hope that practical application will be made in personal and community living.

Two class hours each week.

H & PE 106 HEALTH—WOMEN, 2 cr.

Consideration is given to physical and mental equipment of the individual with the hope that practical application will be made in personal and community living.

Two class hours each week.

H & PE 120 PRINCIPLES OF PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL, 2 cr.

Historical, philosophical, and scientific foundations of physical education.

Two class hours each week.

H & PE 121 MOVEMENT ANALYSIS, 3 cr.

The principles of physics, kinesiology, sociology, and educational psychology applied to human movement. This is both a theory and laboratory course concerned with components of physical fitness, posture analysis and the principles and application of movement in daily living.

Four class hours each week.

H & PE 122 GAMES AND GYMNASICS—Grades K-3, 2 cr.

Games of low organization, self-testing activities, beginning stunts and gymnastics for the developmental needs of primary school children. Emphasis is on progression and skill development.

Prerequisite: Movement Analysis.

H & PE 201 PHYSICAL EDUCATION II—MEN, 1 cr.

To further develop skills and physical aptitudes and to grow in mental and emotional fitness. Emphasis being placed on individual sports.

Prerequisite: Physical Education I.

Two class hours each week.

H & PE 202 PHYSICAL EDUCATION II—WOMEN, 1 cr.

Course content includes skills of archery, badminton, bowling, and continuing instructions in acuatics.

Prerequisites: Physical Education I.

Two class hours each week.

H & PE 220 PLAYGROUND AND GYMNASIUM ACTIVITIES—CO-ED ELECTIVE, 1 cr.

This course is designed for the elementary classroom teacher and/or playground recreational leaders. It offers activity useful for the elementary school child such as rhythmic and dance, games and sports, gymnastics and apparatus, as well as exercise and self-testing events. Some organization and management will also be offered.

Two class hours each week.

H & PE 221 FOLK AND SQUARE DANCE—CO-ED, 1 cr. (Elective)

A progressive course in round and square dancing. Organization and calling skills included.

Two class hours each week.

H & PE 222 GYMNASICS—CO-ED, 1 cr. (Elective)

A beginning and intermediate course in tumbling, dual stunts, large apparatus, hand apparatus, and free exercise.

Two class hours each week.

H & PE 223 GAMES AND GYMNASTICS—GRADES 4-6, 3 cr.

This includes modified team games, track and field events, intermediate and advanced gymnastic skills for grades 4-6. Emphasis is placed on progression and total learning through motor skill development.

Four class hours each week.

H & PE 224 RHYTHMICS AND DANCE—GRADES K-6, 3 cr.

The emphasis in this course is on creativity and developmental progression of rhythmic skills through movement exploration, singing games, folk and square dances. Consideration is given to the aesthetic and cultural values of human movement.

Four class hours each week.

H & PE 301 PHYSICAL EDUCATION III—MEN, 1 cr.

Specialization in selected activities aimed to bring personal performance ability to advanced levels.

Prerequisites: Physical Education I and II.

Two class hours each week.

H & PE 302 PHYSICAL EDUCATION—WOMEN, 1 cr.

Specialization in selected activities aimed to bring personal performance ability to advanced levels.

Prerequisites: Physical Education I and II.

Two class hours each week.

H & PE 310 FIRST AID—CO-ED, 1 cr.

Under auspices of the American Red Cross, this course is designed to provide the student with the knowledges and skills in First Aid. Opportunity to learn what to do in the day to day living experiences and emergencies.

Two class hours each week.

H & PE 311 CAMPING AND OUTDOOR EDUCATION—CO-ED, 2 cr.

(Elective)

This is an introductory course in camp craft skills including outdoor cooking, selecting camp sites, organizing overnight and weekend trips, etc.

H & PE 312 SENIOR LIFE SAVING—CO-ED, 1 cr. (Elective)

Under the auspices of the American Red Cross, consideration is given swimming and life saving techniques necessary to meet the requirements of water safety.

Two class hours each week.

H & PE 313 WATER SAFETY INSTRUCTION—CO-ED, 1 cr. (Elective)

Under the auspices of the American Red Cross, this course is designed to equip the individual with the basic knowledges and skills necessary to save his own life or the lives of others—a safety consciousness. Also to provide the student with the methods and techniques of water safety instruction.

Two class hours each week.

H & PE 314 AQUATICS—WOMEN, 1 cr. (Elective)

This course provides additional aquatic activities for those women deserving such a program.

Prerequisite: Physical Education 102, 202 and 302.

Two class hours per week.

H & PE 315 ARCHERY AND GOLF—WOMEN, 1 cr. (Elective)

This course is designed for students who wish to further their knowledge and skill in the sports of golf and archery. Curriculum includes analysis, practice and application of the variety of golf strokes, game rules and etiquette. Archery activities include variations of bare bow shooting.

H & PE 316 BADMINTON AND TENNIS—WOMEN, 1 cr. (Elective)

An elective physical education course designed to improve skills of tennis and badminton. Course content includes analysis and practice of badminton and tennis strokes, game procedures and rules, and strategy.

Prerequisites: Physical Education 102, 202, and 302.

Two class hours each week.

H & PE 335 ADAPTED AND RELATED PROGRAMS, 2 cr.

This course is divided into two areas of instruction. The adapted section covers the study and application of the modified activities for the atypical child. The related program deals with the noon hour activities, recess, classroom program, intramural, camping and outdoor education, special events, integrated and correlated subject fields, rainy day programs, and aquatics. These courses are primarily designed to disseminate information about the above areas.

Four class hours each week.

H & PE 336 PROGRAMING PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL, 3 cr.

This programming constitutes the total organization of physical education in the elementary school as to curriculum content, methods, materials, facilities, equipment, and supplies. An additional emphasis is given to the relation of physical education to the total educational program in the elementary school.

Prerequisites: All other required course offerings in this physical education area of interest.

Four class hours each week.

HIGHWAY SAFETY AND DRIVER EDUCATION

H Saf 301 DRIVER EDUCATION AND TRAFFIC SAFETY, 3 cr.

Classroom instruction combined with road training and the teaching of driving classroom instruction combined with road training and the teaching of driving to beginners using dual control cars. Emphasis is placed upon the essential facts, principles, skills and attitudes necessary for good driving and the teaching of same to beginning drivers. Ability to use and interpret the results of psycho-physical testing is required.

Three class and three practicum hours each week.

H Saf 302 INTRODUCTION TO SAFETY EDUCATION, 3 cr.

The development of habits and attitudes that will make for safe living by both teachers and students. Acquaintance with 1. Rules, regulations and laws concerning the operation of motor vehicles; 2. Rules, and regulations of pedestrian travel; 3. Other hazards to which we are commonly subjected such as fire, electricity, etc., especially in the home and school.

Three class hours each week.

**H Saf 303 MATERIALS AND METHODS IN TRAFFIC SAFETY IN
SECONDARY SCHOOLS AND ELEMENTARY GRADES, 3 cr.**

The development of habits and attitudes that will better enable the elementary and secondary school teacher in the teaching of safety at home and in the school. Evaluation of curricular materials, teacher as safety counselor, basic facts relating to accidents and hazards.

Three class hours each week.

**H Saf 401 ORGANIZATION AND ADMINISTRATION OF SAFETY EDUCATION,
3 cr.**

Curriculum content and experiences for all school grades in safety education, its organization and graduation for teaching purposes. Ways and means of administering a safety education program.

Three class hours each week.

H Saf 402 VISUAL AND OTHER AIDS IN SAFETY EDUCATION, 3 cr.

Discussion of practical values in visual and other sensory aids; guiding principles and techniques in the teaching of safety education.

Two class and two practicum hours each week.

H Saf 403 PSYCHOLOGY OF ACCIDENT PREVENTION, 3 cr.

The development of habits and attitudes that will better enable the elementary and secondary school teacher in the teaching of safety at home and in the school. Evaluation of curricular materials, teachers as safety counselor, basic facts relating to accidents and hazards.

Three class hours each week.

INDUSTRIAL ARTS DEPARTMENT

Mr. Swearingen, *Department Head*; Dr. Andre, Mr. Ault, Mr. Birch, Mr. Charney, Mr. Helsel, Mr. Keightley, Mr. Kraft, Mr. LaBute, Mr. Linton, Mr. Madia, Mr. McCrory, Mr. Pecosh, Mr. Sanfillippo, Dr. Schuler, Mr. Sikora, Mr. Smith, Mr. Smoyer.

INDUSTRIAL ARTS EDUCATION

IA Ed 355 CURRICULUM MAKING IN INDUSTRIAL ARTS, 2 cr.

Analysis of Industrial Arts objectives for curriculum content; emphasis by grade levels; criterion basis of content selection and appraisal; curriculum construction in selected areas.

Four class hours each week.

IA Ed 440 PRINCIPLES AND PRACTICES OF INDUSTRIAL ARTS, 3 cr.

A requirement for prospective Industrial Arts teachers in order that they may master a few of the fundamental principles, procedures and techniques of Industrial Arts teaching.

IA Ed 450 STUDENT TEACHING, 12 cr.

Observation and participation in all teaching and activities related to the performance of a teacher's work in the area of the student's specialization.

Prerequisite: A general quality point average of C or 2.0 and a 2.0 in major field. The student spends full time in actual classroom teaching for a trimester of sixteen weeks.

IA Ed 451 **PROFESSIONAL PRACTICUM AND SCHOOL LAW**, 2 cr.
Methods and practices of teaching. General techniques of teaching and techniques for the student's special fields. Pennsylvania school laws relevant to the work of the classroom teacher. Problems encountered by the students in their student teaching. Must be scheduled with IA Ed 450.

Two class hours each week.

LABORATORY AND DRAWING AREAS

IA 100 **FUNDAMENTALS OF WOODWORKING**, 4 cr.

A study of basic woodworking techniques with emphasis on the hand tool skills. An introduction of the basic woodworking machines including portable power tools. Maintenance, care and safe operation of both tools and equipment are stressed.

Two demonstration and six laboratory hours each week.

IA 101 **FUNDAMENTALS OF GRAPHIC ARTS**, 4 cr.

A study of the many processes involved in the graphic arts. The processes covered include letterpress, silk screen, intaglio and offset-lithography. Emphasis is placed on letterpress composition and platen press operation with additional study of ink, paper, printing plates, composing methods, history and importance of the graphic arts industry.

Two demonstration and six laboratory hours each week.

IA 150 **INTRODUCTORY MECHANICAL DRAWING**, 2 cr.

Mechanical Drawing with the major emphasis upon blueprint reading, sketching, and the theory of parallel projection including oblique and orthographic.

Four laboratory hours each week.

IA 151 **GRAPHIC ARTS DESIGN**, 2 cr.

Basic principles of printing layout and design are presented. The student is given an opportunity to develop skills by applying these principles through assigned drawings. This course is correlated with the Fundamentals of Graphic Arts course (IA 101).

Four laboratory hours each week.

IA 200 **FUNDAMENTALS OF METALWORKING**, 4 cr.

An introductory course in metalworking giving instruction in sheetmetal, forging and heat treating, bench metalworking, oxyacetylene brazing, and basic welding practices. Emphasis is placed on the safe use and care of metalworking tools and equipment. Students gain experience in project design and construction. This course must be scheduled with IA 250.

Two demonstration and six laboratory hours each week.

IA 201 **FUNDAMENTALS OF MACHINE**, 4 cr.

Instruction in the operation of hand and machine tools, including the engine lathe, milling machine, and shaper. Basic foundry techniques are included.

Two demonstration and six laboratory hours each week.

IA 202 POWER TECHNOLOGY, 4 cr.

Sources and applications of power are studied. The theory of the internal combustion engine, its uses, types, construction and functions are included. Emphasis is placed upon basic hydraulics, pneumatics, and instrumentation.

Two demonstration and six laboratory hours each week.

IA 250 SURFACE DEVELOPMENT AND DESIGN, 2 cr.

A study of surface developments utilizing simple, parallel, radical, and triangulation techniques. Emphasis is placed on designing functional metal-working projects. This course must be scheduled with IA 200.

Prerequisite: IA 150.

Four laboratory hours each week.

IA 251 MACHINE DRAWING, 2cr.

Provides experiences in problem solving with reference to technical working drawings. Special emphasis is placed on American Standard drawing practices, shop processes, conventional representation, standardization of machine parts and fasteners, preparation of tracings and the reproduction of industrial working drawings.

Prerequisite: IA 150.

Four laboratory hours each week.

IA 300 ELECTRICITY-ELECTRONICS I, 3 cr.

The fundamental theory of electricity is studied with emphasis on the effects of resistors, capacitors and inductors as used in direct and alternating current circuits. Practice is given in the use of Ohm's Law, power formula and Kirchhoff's Laws. Laboratory experiences parallel the theory presentation and provide application of circuit principles and the use of tools and equipment basic to the area.

Prerequisites: College Algebra and Physics 100.

Six laboratory hours each week.

IA 301 CERAMICS, 4 cr.

An introduction to Ceramics as an art, a craft, an industrial pursuit, and an educational vehicle. Students are taught the major forming, decorating, and firing process in clay. Originality in ceramic design, sensitivity to tools and materials and technical proficiency are stressed.

Two demonstration and six laboratory hours each week.

IA 302 ADVANCED WOODWORKING, 4 cr.

Principally a course in machine woodworking. Safe operation of all basic woodworking machines is demonstrated. Students make projects involving operations in all basic machines. Spray finish method and techniques are demonstrated. Maintenance of equipment is discussed.

Prerequisites: IA 100 and IA 150.

Two demonstration and six laboratory hours each week.

IA 303 CRAFTS, 4 cr.

An introduction to the Crafts is provided in this course. Creative craftwork is done in a variety of media such as clay, metal, wood, and mosaic. Creative and aesthetic design is stressed as well as attainment of technical proficiency. The student is made aware of the vital and significant role of crafts in life and education.

Two demonstration and six laboratory hours each week.

IA 304 METAL DESIGN AND FABRICATION I (FERROUS METALS), 4 cr.
A study of traditional and contemporary ornamental iron design and fabricating techniques. Emphasis is placed upon individual project design and construction. Students practice the techniques of hot and cold metal forming, riveting, brazing, and welding. Instruction is given relative to surface treatment of ferrous metals.

Prerequisite: IA 200.

Two demonstration and six laboratory hours each week.

IA 305 JEWELRY MAKING, 4 cr.

The creative and aesthetic application of the fundamental processes of jewelry making are presented. Handwrought brooches, necklaces, bracelets, rings, and other types of jewelry are designed by the student. In addition, the student is introduced to the supplementary crafts of lapidary and enameling usually associated with jewelry making. Originality in design, aesthetic sensitivity, and craftsmanship are stressed.

Two demonstration and six laboratory hours each week.

IA 306 PLASTICS, 4 cr.

A general introduction to the history and development of plastics with emphasis on industrial applications including the designing of molds and forms, molding problems and processes.

Two demonstration and six laboratory hours each week.

IA 307 LEATHERCRAFT, 4 cr.

Such fundamental leathercraft techniques as carving, skiving, tooling, finishing, sewing, and lacing of leather are taught. A problematic approach to designing in leather is stressed, thus assuring originality of design and self-expression. Through creative and aesthetic experiences, leathercraft becomes an art expression.

Two demonstration and six laboratory hours each week.

IA 308 FOUNDRY, 4 cr.

For students who wish to major in the field of metalworking. The course is concerned with techniques in metal casting. Foundry procedures and processes that permit an increase in scope of the school metalworking program are covered.

Two demonstration and six laboratory hours each week.

IA 309 METAL DESIGN AND FABRICATION II, (NON-FERROUS METALS), 4 cr.

Provides experience in planning and development of jigs and fixtures; forging of stamping and chasing tools; making tools for die cutting and the cutting of dies. Organization of teaching materials and curriculum development.

Prerequisite: IA 200.

Two demonstration and six laboratory hours each week.

IA 311 FUNDAMENTALS OF PHOTOGRAPHY, 4 cr.

This course deals with the fundamentals and advanced problems of photography. It includes the study and care of cameras, picture compositions, developing, contact printing, enlarging, dodging, toning and photo finishing. Special problems are assigned to individual students.

Two demonstration and six laboratory hours each week.

IA 350 ELECTRICITY-ELECTRONICS II, 3 cr.

Special emphasis is placed on the study of the fundamentals of vacuum tubes and semiconductors as applied in circuits including power supplies, amplifiers, oscillators, and the superhetrodyne receiver. Laboratory experiences are performed on experimental circuits in correlation with the theory presentation along with practical circuit applications.

Prerequisite: IA 300.

Six laboratory hours each week.

IA 351 INDUSTRIAL ARTS DESIGN, 2 cr.

Design is studied as a process made up of three major components; the creative, the aesthetic, and the technical. Students experience design creatively and aesthetically by actively participating in a series of design problems which stress the sensitive use of the elements and principles. Creative thinking and aesthetic sensitivity are encouraged and developed.

Prerequisite: IA 151.

Four laboratory hours each week.

IA 352 ARCHITECTURAL DRAFTING, 2 cr.

Design experience is provided in a basic residence planning. The fundamentals sequences in designing and drawing a residence are stressed and the student completes all architectural drawings necessary for construction. Elements of the course include: architectural styles, area planning, structural detailing, pictorial rendering, building specifications and cost analysis.

Four laboratory hours each week.

IA 353 LABORATORY PLANNING, 3 cr.

Experience is provided in all phases of modern industrial arts laboratory planning. The student proceeds through the entire sequence of laboratory planning from the original design to the completion of all drawings necessary for the construction of industrial arts facilities. The major units of the course include: types of industrial arts programs, principles of laboratory planning, equipment selection, architectural and engineering practices, and evaluation of industrial arts facilities.

Four class hours each week.

IA 400 INDUSTRIAL ELECTRICITY-ELECTRONICS, 3 cr.

Theory and experiences associated with the various types of alternating current and direct current motors, the methods of controlling motors, especially those employing thyatron tubes, phototubes, transistors, silicon controlled rectifiers, and timing devices. Study will also be made on transformer principles, generators and high voltage transmission. Experiences will include practice in the use and operation of these circuits.

Prerequisites: IA 300 and IA 350.

Six laboratory hours each week.

IA 401 PATTERNMAKING, 4 cr.

For students who wish to major in woodworking in preparation for teaching a unit shop. Basic principles involved in the making of wood patterns and core boxes are stressed. Techniques are demonstrated. Patterns and core boxes made by students are used in the school foundry.

Prerequisites: IA 100 and IA 302.

Two demonstrations and six laboratory hours each week.

IA 402 ADVANCED MACHINE, 4 cr.

Experience in the operation of the milling machine, shaper, the drill press, and the engine lathe; in indexing and in the heat treatments of metals. Special emphasis is placed upon assembly and mass production.

Prerequisites IA 201.

Two demonstration and six laboratory hours each week.

IA 403 FURNITURE DESIGN AND CONSTRUCTION, 4 cr.

Basic principles of furniture construction and upholstery are presented. Emphasis is placed upon individual instruction in methods and techniques of teaching modern methods of upholstery for the junior and senior high school student.

Prerequisites: IA 100 and IA 302.

Two demonstration and six laboratory hours per week.

IA 404 ADVANCED GRAPHIC ARTS, 4 cr.

A detailed study of multi-color, hand-cut, silk screen printing, photo silk screen techniques, bookbinding, hand paper making, rubber stamp making, printing plates, machinery maintenance and adjustments, and planning a graphic arts program for the Secondary school.

Prerequisites: IA 101 and IA 151.

Two demonstration and six laboratory hours each week.

IA 405 SPECIAL MACHINE, 4 cr.

Project work utilizing special machine techniques. Admission only by consent of the instructor.

Two demonstration and six laboratory hours each week.

IA 406 ELECTRONIC COMMUNICATION CIRCUITS, 3 cr.

A study of the theory of radio transmitters, FM receivers, single sideband techniques and microwave transmission. Practical experiences will be provided with selected techniques of electronic communications.

Prerequisites: IA 300 and IA 350.

Six laboratory hours each week.

IA 407 TELEVISION CIRCUITS, 3 cr.

The theory of operation of the various stages of black and white receivers as well as color television receivers and television transmission. Practical experiences will be provided in the trouble shooting and operating techniques of the various stages of each system.

Prerequisites: IA 300 and IA 350.

IA 409 OFFSET-LITHOGRAPHY, 4 cr.

An introduction to the basic principles of the offset-lithography printing process. Specific areas of work to include copy preparation, photography as applied to lithography, photo-lithography camera operation, stepping, platemaking, and press operation. Historical aspects, advantages of lithography, and current industrial practices and procedures are discussed thoroughly.

Prerequisites: IA 101 and IA 151.

Two demonstrations and six laboratory hours each week.

IA 410 FUNDAMENTALS OF AUTO MECHANICS, 4 cr.

Credit is given for work taken at General Motors Training Center.

IA 411 ADVANCED AUTO MECHANICS, 4 cr.
Credit is given for work taken at General Motors Training Center.

IA 460 ADVANCED GRAPHIC ARTS DESIGN, 2 cr.
Designing and preparing teaching materials as used in Advanced Graphic Arts through the study and use of various metals in preparing of illustrative material for publication.
Prerequisite: IA 151.
Four laboratory hours each week.

IA 461 ADVANCED MECHANICAL DRAWING, 2 cr.
Special emphasis is placed upon the basic principles involved in machine design. The possibilities and limitations of the common metals, mechanical movements, and the use of fasteners, and the application of machine fits are stressed.
Prerequisites: IA 150 and IA 251.
Four laboratory hours each week.

IA 462 BLUEPRINT READING, 2 cr.
This is a beginning course in blueprint reading designed for people enrolled in the college as well as industrial workers. Simplified drafting practices and structural, topographic, and welding drawings are studied.
Four laboratory hours each week.

IA 470 CLINICAL OBSERVATION AND PRACTICE IN MANUAL ARTS AND EDUCATIONAL THERAPY, 6 cr.
This course is designed to provide training (through hospital staff lectures and practical clinical experience) in Manual Arts, Industrial Therapy, and Educational Therapy, as it is integrated in the Physical Medicine and Rehabilitation program of a hospital. As a phase of the professional educational requirements, which includes student teaching, an intensive six-week course is offered under the auspices of the professional staff at the Leech Farm Veterans Administration Hospital in Pittsburgh. Open to junior, seniors, and graduate students in all curriculums. This course may be offered as part of student teaching.

IA 490 HONORS COURSE IN INDUSTRIAL ARTS I, 4 cr.
Individual study and research in the woodworking area.
Prerequisites: IA 100 and IA 302.

IA 491 HONORS COURSE IN INDUSTRIAL ARTS II, 4 cr.
Individual study and research in the metalworking area.
Prerequisites: IA 200 and IA 201.

IA 492 HONORS COURSE IN INDUSTRIAL ARTS III, 4 cr.
Individual study and research in the graphic arts area.
Prerequisites: IA 101 and IA 404.

MATHEMATICS DEPARTMENT

Dr. Monroe, *Department Head*: Mr. Bethem, Mr. Beyer, Mr. Blank, Mr. Curtioff, Mr. Dunbar, Mr. Duncan, Mr. Fernandes, Mr. Gibson, Mr. Hausher, Mr. Novak, Mr. Riggie, Mr. Sapko, Mr. Schmidt, Mr. Skocik, Dr. Thomas.

* **Math 101 FUNDAMENTALS OF MATHEMATICS, 3 cr.**

This course shall encompass a variety of topics in mathematics for students of various desires, interests, and backgrounds. Thus the student may utilize the course for terminal study or as a foundation course toward further or deeper study in mathematics. Hence, the course shall contain topics introducing Number Theory, Arithmetic, Algebra, Geometry, Probability and Logic.

Three class hours each week.

(Math majors may not take this course for credit.)

Math 102 COLLEGE ALGEBRA, 3 cr.

A review of the fundamentals of Algebra for terminal students, as well as, a basic foundation for majors in natural and social sciences.

Prerequisite: Three years of high school mathematics or honor grade in Fundamentals of Mathematics.

Three class hours each week.

(Does not count toward math major.)

Math 103 COLLEGE TRIGONOMETRY, 3 cr.

This course is to develop a broader understanding of trigonometry functions and identities through a coordinate plane approach and to provide an extension of logarithms through the base. It will also stress the graphical representations of the trigonometric and logarithmic functions along with their inverse.

Prerequisite: College Algebra.

Three class hours each week.

Math 104 ANALYTIC GEOMETRY AND CALCULUS I, 3 cr.

Real numbers, Sets, Inequalities, Absolute Values, Rectangular Cartesian Coordinates, Functions and their Graphs, Limits and Continuity, the Derivative.

Prerequisite: CEEB Math Score 550 or better and honor grades in High School Algebra II and Trigonometry or College Algebra. All mathematics and science majors unable to start this course will take College Algebra and Trigonometry in addition to meeting other requirements.

Three class hours each week.

Math 105 ANALYTIC GEOMETRY AND CALCULUS II, 3 cr.

Differentiation of Algebraic Functions, the antiderivative, the definite integral as the limit of a sum with applications to the physical sciences and engineering.

Prerequisite: Analytic Geometry and Calculus I.

Three class hours each week.

Math 106 GEOMETRY I, 3 cr.

This course begins with a study of the axiomatic method, independent of its use in geometry. This will include supplementary material on the basic elements of logic. Then a critical re-examination and study of euclidean geometry is undertaken. Emphasis is on carefully worded definitions and postulates, what the basic assumptions are, and methods of attack in proving theorems.

Three class hours each week.

Math 150 DIAGNOSTIC AND REMEDIAL MATHEMATICS, 3 cr.

This course is an elective for Elementary majors specializing in Mathematics. Methods of determining pupil difficulties in arithmetic and techniques for correcting deficiencies in mathematical literacy will be stressed.

Three class hours each week.

Math 201 ANALYTIC GEOMETRY AND CALCULUS III, 3 cr.

Differentiation and integration of logarithmic functions, trigonometric functions and hyperbolic functions. Techniques of integration such as by parts, by substitution, and by partial fractions.

Prerequisite: Analytic Geometry and Calculus II.

Three class hours each week.

Math 202 ANALYTIC GEOMETRY AND CALCULUS IV, 3 cr.

Polar coordinate, parametric equations, vectors in the plane, improper integrals and indeterminate forms, analytic geometry of three dimensional space.

Prerequisite: Analytic Geometry and Calculus III.

Three class hours each week.

Math 203 GEOMETRY II, 3 cr.

The general theme of this course is a comparison of the axiomatic structures of Euclidean two-dimensional geometry vs. Lobachevskian two-dimensional geometry.

Prerequisite: Geometry I.

Three class hours each week.

Math 204 ABSTRACT ALGEBRA, 3 cr.

The number system, number theory, elementary theory of groups, rings, integral domain, fields, matrices and determinants.

Prerequisite: Analytic Geometry and Calculus II.

Three class hours each week.

Math 205 FIELD WORK IN MATHEMATICS, 3 cr.

This course is an enriching as well as practical usage of mathematics for secondary school mathematics. It applies mathematics to the area of measurement. The use of the transit, sextant, hypsometer, angle mirror and plane table and other measuring instruments will be studied. Elementary land surveying, note taking and translation of notes into simple maps will be emphasized. The slide rule and calculator will be utilized. Construction and use of student made instruments will be encouraged.

Prerequisite: College Trigonometry.

Three class hours each week.

Math 210 STATISTICS, 3 cr.

This course is for non-math majors, and is not counted toward a math major. Frequency distribution, percentiles, measures of central tendency, variability, normal distribution curve, populations, samples and error-sampling distribution of means, sampling distribution of proportion-null and alternative hypotheses, type I and type II errors, tests of means, confidence intervals and decision procedures, correlation, chi square, simple analysis of variance, statistics and the design of experiments.

Prerequisite: College Algebra.

Three class hours each week.

Math 301 ANALYTIC GEOMETRY AND CALCULUS V, 3 cr.

Vectors in three space, partial differentiation, multiple integrals, infinite series.

Prerequisite: Analytic Geometry and Calculus IV.

Three class hours each week.

Math 302 THEORY OF EQUATIONS, 3 cr.

Complex numbers; theorems involving polynomials in one variable; cubic and biquadratic equations; separations of roots; Sturm's theorem and approximate evaluation of roots.

Prerequisite: Analytic Geometry and Calculus IV.

Three class hours each week.

Math 303 DIFFERENTIAL EQUATIONS, 3 cr.

Elementary ordinary differential equations and their use in a wide variety of applications in geometry, engineering and physical sciences; methods employing symbolic operators; approximations, techniques and series solution.

Prerequisite: Calculus IV.

Three class hours each week.

Math 305 LINEAR ALGEBRA, 3 cr.

The beginning of the course covers matrix theory for handling systems of linear equations and the introduction of vector spaces. The remainder of the course is treatment of the characteristic value problems including a discussion of normal matrices and culminating with a discussion of the Jordan canonical form.

Prerequisite: 24 credits of college math including Abstract Algebra.

Three class hours each week.

Math 390 MATHEMATICAL INSIGHTS, 3 cr.

To provide the secondary and elementary mathematics major with an adequate introduction to logic, set theory, functions, relations, probability and some modern algebra.

Prerequisite: 15 credits in mathematics.

Three class hours each week.

Math 401 ADVANCED CALCULUS I, 3 cr.

Lectures and problem solving in the study of functions, sequences, limits, differentiability and integration. Much stress is placed on definitions and theorems with very little time spent on the elementary differentiation and integration formulas.

Prerequisite: Analytic Geometry and Calculus V.

Three class hours each week.

Math 402 ADVANCED CALCULUS II, 3 cr.

Lectures and problem solving in the study of vectors, functions of several variables, and convergence. Much stress is placed on definitions and theorems concerning these topics.

Prerequisite: Advanced Calculus I

Three class hours each week.

Math 420 MATHEMATICS OF FINANCE, 3 cr.

The presentation of the above topic is from a purely algebraic approach. Although some economic theory and philosophy will be discussed in each of the areas covered.

Prerequisite: College Algebra.

Three class hours each week.

Math 490 HONORS COURSE IN MATHEMATICS, 3 cr.

Individual study and research on topics and materials not covered by regular course work in mathematics.

Prerequisite: 64 credits completed or scheduled with a QPA of 3.25 in all work, recommendation of the mathematics faculty, approval of the Department Head and the Dean of Instruction.

Math 491 HONORS COURSE IN MATHEMATICS, 3 cr.

Individual study and research on topics and materials not covered by regular course work in mathematics.

Prerequisite: 64 credits completed or scheduled with a QPA of 3.25 in all work, recommendation of the mathematics faculty, approval of the Department Head and the Dean of Instruction.

Math 492 HONORS COURSE IN MATHEMATICS, 3 cr.

Individual study and research on topics and materials not covered by regular course work in mathematics.

Prerequisite: 64 credits completed or scheduled with a QPA of 3.25 in all work, recommendation of the mathematics faculty, approval of the Department Head and the Dean of Instruction.

Math 495 SEMINAR IN MATHEMATICS, 1, 2, or 3 credits

Prerequisite: 18 hours of mathematics.

MODERN LANGUAGE DEPARTMENT

Dr. Marisa, *Department Head*; Mr. Demetrakis, Dr. Gonzalez, Dr. Krueck, Mr. Long, Dr. Marsh, Mr. Parascenzo, Dr. Romero, Mrs. Santee.

One hour of Language Laboratory Study per week in required of all language students.

FRENCH

Fr 101 ELEMENTARY FRENCH I, 3 cr.

For the student without previous knowledge of French. This course is devoted to the development of the fundamentals of correct idiomatic French. The student is made aware of basic sound patterns and sentence structures emphasizing at first hearing and speaking then reading and writing. Classroom instruction is supplemented by laboratory study and practice.

Prerequisites: None.

Three class hours each week.

One hour language laboratory per week.

Fr 102 ELEMENTARY FRENCH II, 3 cr.

A continuation of French 101 for students who wish to increase their aural comprehension, their speaking ability and their reading and writing skills.

Prerequisite: French 101 or one year of high school French.

Three class hours each week.

One hour language laboratory per week.

Fr 103 INTERMEDIATE FRENCH I, 3 cr.

(French grammar and reading). For students who have completed French 101 and 102 or two years of high school French. This course provides a review of essential French grammar and further develops audio-lingual comprehension as well as reading and writing facility.

Prerequisites: French 101 and 102 or two years of high school French.

Three class hours each week.

One hour language laboratory per week.

Fr 104 INTERMEDIATE FRENCH II, 3 cr.

Continuation of 103. After a short review of grammar, structural patterns are further developed through reading and discussion of selected prose writings of modern authors.

Prerequisite: French 103 or equivalent.

Three class hours each week.

One hour of language laboratory per week.

Fr 201 FRENCH CONVERSATION, COMPOSITION AND PHONETICS I, 3 cr.

Cultural themes are used as a basis for idiomatic conversation and discussions; written compositions are assigned to teach the student how to write correct French.

Prerequisite: French 104.

Three class hours each week.

One hour language laboratory per week.

Fr 202 FRENCH CONVERSATION, COMPOSITION AND PHONETICS II, 3 cr.

Continuation of French 201 on a more advanced level as reflected in some representative authors and a study of the essential phonetics needed in conversation.

Prerequisite: French 201 or completion of French 104 with the grade A or B.

Three class hours each week.

One hour language laboratory per week.

Fr 205 FRENCH CULTURE AND CIVILIZATION I, 3 cr.

A study of the most significant aspects of French history from the Middle Ages to modern times. The selections will be from literary works and other prose writings with discussions on the social, political, economic and cultural aspects of France.

Prerequisite: French 201 or 202 or permission.

Three class hours each week.

One hour language laboratory per week.

Fr 206 FRENCH CULTURE AND CIVILIZATION II, 3 cr.

Continuation of French 205 with more emphasis on recent times as well as discussions on current events in France.

Prerequisite: French 205 or permission.

Three class hours each week.

One hour of language laboratory per week.

- Fr 301 SURVEY OF FRENCH LITERATURE I, 3 cr.
 A general survey of French Literature from the Middle Ages to 1800.
 Prerequisite: 12 hours French beyond 102.
 Three class hours each week.
- Fr 302 SURVEY OF FRENCH LITERATURE II, 3 cr.
 A general survey of French Literature from 1800 to the present day.
 Prerequisite: 12 hours French beyond 102.
 Three class hours each week.
- Fr 316 FRENCH LITERATURE OF THE 16TH CENTURY, 3 cr.
 A study of French Literature from the Middle Ages through the 16th century.
 Prerequisite: French 301 or 302.
 Three class hours each week.
- Fr 317 FRENCH LITERATURE OF THE 17TH CENTURY, 3 cr.
 A study of French Literature of the 17th century.
 Prerequisite: French 301 or 302.
 Three class hours each week.
- Fr 318 FRENCH LITERATURE OF THE 18TH CENTURY, 3 cr.
 A study of eighteenth century thought and literature.
 Prerequisite: French 301 or 302.
 Three class hours each week.
- Fr 319 FRENCH LITERATURE OF THE 19TH CENTURY, 3 cr.
 A study of nineteenth century literature and social thought with emphasis on the romantic and realist periods.
 Prerequisite: French 301 or 302.
 Three class hours each week.
- Fr 401 READINGS IN CONTEMPORARY FRENCH LITERATURE, 3 cr.
 Subject matter to be based on the writings of famous 20th century authors.
 Prerequisite: French 301 or 302.
 Three class hours each week.
- Fr 412 LITERARY, CULTURAL AND POLITICAL HISTORY OF FRANCE, 3 cr.
 (Not Currently Offered)
 A summary of the intellectual accomplishments of the French nation from the Gauls to Charles DeGaulle.
 Prerequisite: French 301 or 302.
 Three class hours each week.
- Fr 421 STUDIES IN FRENCH LITERATURE I, 1 cr.
 Subject matter to be arranged. The course is designed for French majors who wish to take one additional credit.
 Prerequisite: 18 hours of French.
- Fr 422 STUDIES IN FRENCH LITERATURE II, 2 cr.
 Subject matter to be arranged. The course is designed for French majors who wish to take two additional credits.
 Prerequisite: 18 hours of French.
- Fr 423 STUDIES IN FRENCH LITERATURE III, 3 cr.
 Subject matter to be arranged. The course is designed for French majors who wish to take 3 additional credits.
 Prerequisite: 18 hours of French.

Fr 461 FIELD WORK IN FRENCH STUDIES I, 3 cr.

Study outside the United States, usually in Canada or France. Subjects are to be chosen from courses to be offered in the French language at an established and accredited educational institution according to the interests and ability of the student.

Three class hours each week or according to the program of the institution.

Fr 462 FIELD WORK IN FRENCH STUDIES II, 3 cr.

Study outside the United States, usually in Canada or France. Subjects are to be chosen from courses to be offered in the French language at an established and accredited educational institution according to the interests and ability of the student.

Three class hours each week or according to the program of the institution.

Fr 471 WORKSHOP I, 1 cr.

A course designed for teachers in service. Laboratory and audio-visual techniques. May be taken outside the U.S.

Fr 472 WORKSHOP II, 2 cr.

A course designed for teachers in service. Laboratory and audio-visual techniques. May be taken outside the U.S.

Fr 473 WORKSHOP III, 3 cr.

A course designed for teachers in service. Laboratory and audio-visual techniques. May be taken outside the U.S.

Fr 490 HONORS COURSE IN FRENCH, 3 cr.

Individual study and research on topics and materials not covered by regular course work in French.

Prerequisite: Junior Standing or scheduled with a quality point average of 3.25 in all work*, recommendation of the Modern Language Department and approval of the Dean of Instruction.

*with a minimum of 15 hours completed in French beyond Fr 104.

GERMAN

Ger 101 ELEMENTARY GERMAN I, 3 cr.

For those who have had no previous instruction in German or who reveal insufficient training for more advanced levels. This course is intended to develop the fundamentals of correct idiomatic German through basic sound patterns and sentence structure. Language laboratory is used in conjunction with this and the following courses.

Three class hours each week.

One hour language laboratory per week.

Ger 102 ELEMENTARY GERMAN II, 3 cr.

Continuation of German 101. It contains more reading, and the speaking is more advanced.

Prerequisite: German 101 or one year of high school German.

Three class hours each week.

One hour language laboratory per week.

Ger 103 INTERMEDIATE GERMAN I, 3 cr.

The goals are understanding, speaking, reading, and writing on a more advanced level. It includes a review of the structural principles covered in German 101 and 102, and additional structural material, idioms, etc., are presented. More emphasis is placed upon both speaking and reading.

Prerequisite: German 102 or two years of high school German.

Three class hours each week.

One hour language laboratory per week.

Ger 104 INTERMEDIATE GERMAN II, 3 cr.

Continuation of German 103, but speaking, reading, and writing on a more advanced level.

Prerequisite: German 103

Three class hours each week.

One hour language laboratory per week.

Ger 201 GERMAN CONVERSATION, COMPOSITION, AND PHONETICS I, 3 cr.

Concentrates on the further development of knowledge and skill in speaking and writing, based upon a relatively small amount of reading which is particularly well adapted to this purpose.

Prerequisite: German 104.

Three class hours each week.

One hour language laboratory per week.

Ger 202 GERMAN CONVERSATION, COMPOSITION, AND PHONETICS II, 3 cr.

Continuation of German 201, conducted on a more advanced level.

Prerequisite: German 201 or the completion of German 104 with the grade A or B.

Three class hours each week.

One hour language laboratory per week.

Ger 205 GERMAN CULTURE AND CIVILIZATION I, 3 cr.

Covers in outline the entire field of German literature with particular reference to the German people and their historical, political, economic, and geographic background and to their art and folklore.

Prerequisite: German 104.

Three class hours each week.

One hour language laboratory per week.

Ger 206 GERMAN CULTURE AND CIVILIZATION II, 3 cr.

Continuation of German 205.

Prerequisite: German 205 or the completion of German 104 with the grade A or B.

Three class hours each week.

One hour language laboratory per week.

Ger 301 SURVEY OF GERMAN LITERATURE I, 3 cr.

Background for study of the history of German Literature, presenting a foundation in literary definition (style, form, period) with examination of appropriate examples from the works of leading German-speaking authors.

Prerequisite: 12 hours German beyond German 102.

Three class hours each week.

Ger 302 SURVEY OF GERMAN LITERATURE II , 3 cr.

Continuation of 301.

Prerequisite: 12 hours German beyond German 102.

Three class hours each week.

Ger 303 GERMAN CLASSICAL MOVEMENT, 3 cr. (not currently offered)
A study of writings by German classical authors with thorough discussions of classical literary principles as they appear in Germany, France, England, Greece, and Rome.

Prerequisite: German 301 or 302.

Three class hours each week.

Ger 304 GERMAN ROMANTIC MOVEMENT, 3 cr. (not currently offered)
A study of the writing of German romantic authors and thorough discussions of romantic literary principles as they appear in Germany and elsewhere.

Prerequisite: German 301 or 302.

Three class hours each week.

Ger 315 GERMAN LITERATURE OF THE LATE BAROQUE:
1720-1760, 3 cr.

Reading and discussion of works representing major literary trends in the age of Klopstock, with emphasis on understanding influences and innovations in social, political, and religious thought.

Prerequisite: German 301 or 302.

Three class hours each week.

Ger 316 CLASSICISM: AUFKLARUNG AND STURM UND DRANG
(1760-1790), 3 cr.

Reading and discussion of representative works by Lessing, Goethe, Schiller and their contemporaries, with emphasis on understanding developments in aesthetic outlook.

Prerequisite: German 301 or 302.

Three class hours each week.

Ger 317 ROMANTICISM: 1790-1830, 3 cr.

Foundation course in understanding the German Romantic Weltanschauung as seen in major writers of the period (Novalis, E.T.A. Hoffman, Kleist, etc.).

Prerequisite: German 301 or 302.

Three class hours each week.

Ger 318 REALISM TO NATURALISM: 1830-1870, 3 cr.

A course dealing with ideas in transition, focusing on theory and practice in prose forms, drama, and poetry in the era immediately preceding German unification as reflected in works by writers of various nationalities (Grillparzer, Heine, Keller, etc.).

Prerequisite: German 301 or 302.

Three class hours each week.

Ger 319 NATURALISM-IMPRESSIONISM-EXPRESSIONISM: 1870-1920, 3 cr.
Concentrated study of literary developments during the half century which witnessed the rise and fall of the German monarchies; writers represented (among others): Gerhart Hauptmann, Hugo von Hofmannsthal, Franz Kafka, Rainer Maria Rilke and Thomas Mann.

Prerequisite: German 301 or 302.

Three class hours each week.

Ger 320 CONTEMPORARY GERMAN LITERATURE: 1920 TO THE PRESENT DAY, 3 cr.

A study of the most recent developments in German Literature, with a special emphasis on understanding the impact of conflicting ideologies and aesthetics; Thomas Mann, Brecht, Grass and their contemporaries are the focal points.

Prerequisite: German 301 or 302.
Three class hours each week.

Ger 321 GOETHE'S FAUST, 3 cr. (not currently offered)

Concentrates on the greatest German masterpiece and provides thorough discussions of a literary and social nature.

Prerequisite: German 301 or 302.
Three class hours each week.

Ger 322 GERMAN LYRIC POETRY, 3 cr. (not currently offered)

Readings and discussions from an anthology of the whole field of the German Lyric.

Prerequisite: German 301 or 302.
Three class hours each week.

Ger 326 THE NINETEENTH CENTURY AFTER GOETHE, 3 cr. (not currently offered)

Readings and discussions concerning the literature and the social, economic, and political background of the century preceding our own.

Prerequisite: German 301 or 302.
Three class hours each week.

Ger 340 SCIENTIFIC GERMAN, 3 cr. (not currently offered)

Readings from typical scientific books and periodicals in the various fields of science. Emphasis is laid upon vocabulary, word formation, sentence structure, and relating the parts to a meaningful whole.

Prerequisite: German 301 or 302.
Three class hours each week.

Ger 401 READINGS IN GERMAN LITERATURE I, 3 cr. (not currently offered)

Readings from representative poets, dramatists, novelists, short story writers, and essayists of our own century. Particular attention is given to trends in thought, literary analysis, and the social and political scene.

Prerequisite: German 301 or 302.
Three class hours each week.

Ger 402 READINGS IN GERMAN LITERATURE II, 3 cr.

Readings from contemporary newspapers and periodicals. Discussions with reference to the reading matter and the contemporary scene in Germany.

Prerequisite: German 301 or 302.
Three class hours each week.

Ger 412 LITERARY, CULTURAL, AND POLITICAL HISTORY OF GERMANY, 3 cr. (not currently offered)

Readings from German Literature with reference to the history of the country in conjunction with a regular history.

Prerequisite: German 301 or 302.
Three class hours each week.

Ger 421 STUDIES IN GERMAN LITERATURE I, 1 cr.

Designed to meet special problems or deficiencies.

Prerequisite: 18 hours of German.

Ger 422 STUDIES IN GERMAN LITERATURE II, 2 cr.

Designed to meet special problems or deficiencies.

Prerequisite: 18 hours of German.

Ger 423 STUDIES IN GERMAN LITERATURE III, 3 cr.

Designed to meet special problems or deficiencies.

Prerequisite: 18 hours of German.

Ger 461 FIELD WORK IN GERMAN STUDIES I, 3 cr.

Study outside the United States, usually in Germany. Subjects are to be chosen from courses to be offered in the German language at an established and accredited educational institution according to the interests and ability of the students.

Three class hours each week or according to the program of the institution.

Ger 462 FIELD WORK IN GERMAN STUDIES II, 3 cr.

Study outside the United States, usually in Germany. Subjects are to be chosen from courses offered in the German language at an established and accredited educational institution according to the interests and ability of the student.

Three class hours each week or according to the program of the institution.

Ger 471 WORKSHOP I, 1 cr.

Prerequisite: Consent of instructor.

Hours to be arranged.

Ger 472 WORKSHOP II, 2 cr.

Prerequisite: Consent of instructor.

Hours to be arranged.

Ger 473 WORKSHOP III, 3 cr.

Prerequisite: Consent of the instructor.

Hours to be arranged.

Ger 490 HONORS COURSE IN GERMAN, 3 cr.

Individual study and research on topics and materials not covered by regular course work in German.

Prerequisite: Junior Standing or scheduled with a quality point average of 3.25 in all work*, recommendation of the Modern Language Department and approval of the Dean of Instruction.

* With a minimum of 15 hours in German beyond German 104.

SPANISH

Span 101 ELEMENTARY SPANISH I, 3 cr.

For the student without previous knowledge of Spanish who wishes to achieve a sound basis for an active command of the language. The course is devoted to the development of the fundamental speech skills which are reinforced in the language laboratory. Progressively greater emphasis is placed on reading and writing.

Three class hours each week.

One hour language laboratory per week.

Span 102 ELEMENTARY SPANISH II, 3 cr.

A continuation of Spanish 101 for students who wish to increase oral comprehension, their speaking ability, and their reading and writing skills.

Prerequisite: Spanish 101 or one year of high school Spanish.

Three class hours each week.

One hour language laboratory per week.

Span 103 INTERMEDIATE SPANISH I, 3 cr.

An adequate review of the essentials of Spanish grammar through intensive oral structures and written practice to facilitate the use of Spanish grammar, and to develop the use of words and expressions that are accepted throughout the Spanish-speaking world.

Prerequisite: Spanish 101 and 102 or their equivalents.

Three class hours each week.

One hour language laboratory per week.

Span 104 INTERMEDIATE SPANISH II, 3 cr.

To develop a reasonable control of the principal structure patterns through dialogue, oral, reading, and writing practice from reading of modern authors.

Prerequisite: Spanish 103.

Three class hours each week.

One hour language laboratory per week.

Span 201 SPANISH CONVERSATION, COMPOSITION, AND PHONETICS I, 3 cr.

Intensive practice based on modern prose, to provide the students with models of natural, spontaneous speech which include both cultural themes and colloquialisms, up-to-date dialogues on which to base class discussion. Written compositions using orthographic rules as an introduction to teach the student how to write in Spanish.

Prerequisite: Spanish 104.

Three class hours each week.

One hour language laboratory per week.

Span 202 SPANISH CONVERSATION, COMPOSITION, AND PHONETICS II, 3 cr.

A study of the essential Spanish morphology, syntax, semantics, and linguistics as reflected in some representative authors in order to confront the student with new ways of writing and thinking that will prepare him for the Spanish Culture and Civilization courses.

Prerequisite: Spanish 104.

Three class hours each week.

One hour language laboratory per week.

Span 205 CULTURE AND CIVILIZATION OF SPAIN, 3 cr.

A study of the most significant aspects of Spanish history, early and contemporary trends, with a broad discussion of their essential characteristics and their contribution to Western Civilization, therefore stimulating thought on the social, political, economic and cultural problems which constitute the themes of Spanish history.

Prerequisite: Spanish 201 or 202.

Three class hours each week.

One hour language laboratory per week.

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Span 206 CULTURE AND CIVILIZATION OF HISPANIC-AMERICA, 3 cr.

A study of the early pre-colombian cultures of the Spanish-American countries and the impact of the Spanish conquests upon the peoples of these countries. Wider appreciation of the psychological elements that have made their imprint upon the people who live in these lands today, and to examine the contemporary political, economic, literary, artistic, and scientific movements in the most important republics of Hispanic-America and their relationship to the United States at large.

Prerequisite: Spanish 201 or 202.

Three class hours each week.

One hour language laboratory per week.

Span 301 SURVEY OF SPANISH LITERATURE, 3 cr.

An introduction to the masterpieces of Spanish Literature ranging from "Poema de Mio Cid" to the current authors who represent all of the important Spanish literary genres, such as narrative poetry (epic and ballad), lyric verse, the short story, and also selections from novels and dramas. This course will provide an introduction to critical literary evaluation.

Prerequisite: 12 hours Spanish beyond 102.

X Span 302 SURVEY OF SPANISH-AMERICAN LITERATURE, 3 cr.

A study of representative selections from the colonial period to present a comprehensive picture of the setting in which Spanish-American Literature has developed, with emphasis on the salient characteristics and the distinctive contributions of each literary form in the period or movement under study. This course will provide an introduction to critical literary evaluation.

Prerequisite: 12 hours of Spanish beyond 102.

Span 304 SPANISH SHORT STORY, 3 cr. (not currently offered)

The development of this narrative form will be examined. Selections from the principal writers will include the period of the Poema del Cid, the picaresque era, and modern times.

Prerequisite: Spanish 301 or 302.

Span 305 CERVANTES: DON QUIJOTE, 3 cr.

A study of the works of Cervantes with emphasis on Don Quijote.

Prerequisite: Spanish 301 or 302.

Span 306 SPANISH DRAMA, 3 cr. (not currently offered)

A study of the dramatic literature of Spain with particular reference to the romantic and realistic movements.

Prerequisite: Spanish 301 or 302.

Span 307 THE GENERATION OF 1898, 3 cr.

A study of novels, short stories, essays, poetry and dramas of the most representative authors of this period and their influence on modern Spanish Literature.

Prerequisite: Spanish 301 or 302.

Span 308 GOLDEN AGE DRAMA, 3 cr.

A study of the verse dramas which illustrate the dramatic techniques and themes prevalent in Spain between 1600 and 1700.

Prerequisite: Spanish 301 or 302.

Span 309 GOLDEN AGE NOVEL, 3 cr.
The major prose works of the Renaissance and Baroque styles: The Pastoral, Chivalric, and Picaresque Novels.

Prerequisite: Spanish 301 or 302.

Span 320 MASTERPIECES OF HISPANIC-AMERICAN LITERATURE, 3 cr. (not currently offered)

One author to be studied in depth. Subject to be selected.

Prerequisite: Spanish 301 or 302.

Span 401 READINGS IN THE LITERATURE OF SPAIN AND HISPANIC-AMERICA, 3 cr.

This course is designed for Spanish major wishing to study in depth authors of Spain and Hispanic-America. Works to be selected.

Prerequisite: Spanish 301 or 302.

Span 412 LITERARY, CULTURAL, AND POLITICAL HISTORY OF SPAIN AND HISPANIC-AMERICA, 3 cr. (not currently offered)

A summary of the accomplishments of the Spanish-speaking world from the Golden Age to Francisco Franco.

Prerequisite: Spanish 301 or 302.

Span 421 STUDIES IN SPANISH LITERATURE I, 1 cr.

For the benefit of teacher in service and to meet special problems or deficiencies.

Prerequisite: 18 hours of Spanish.

Span 422 STUDIES IN SPANISH LITERATURE II, 2 cr.

For the benefit of teachers in service and to meet special problems or deficiencies.

Prerequisite: 18 hours of Spanish.

Span 423 STUDIES IN SPANISH LITERATURE III, 3 cr.

For the benefit of teacher in service and to meet special problems and deficiencies.

Prerequisite: 18 hours of Spanish.

Span 461 FIELD WORK IN SPANISH STUDIES I, 3 cr.

Study outside the United States, usually in a Spanish-speaking country. Subjects are to be chosen from courses to be offered in the Spanish language at an established and accredited educational institution according to the interests and ability of the student.

Prerequisite: Consent of the instructor.

Three class hours each week or according to the program of the institution.

Span 462 FIELD WORK IN SPANISH STUDIES II, 3 cr.

Study outside the United States, usually in a Spanish-speaking country. Subjects are to be chosen from courses to be offered in the Spanish language at an established and accredited educational institution according to the interests and ability of the student.

Prerequisite: Consent of the instructor.

Three class hours each week or according to the program of the institution.

Span 471 WORKSHOP I, 1 cr.

An individual study course for students and teacher in service.

Prerequisite: Consent of the instructor.

Span 472 WORKSHOP II, 2 cr.

An individual study course for students and teacher in service.

Prerequisite: Consent of the instructor.

Span 473 WORKSHOP III, 3 cr.

An individual study course for students and teacher in service.

Prerequisite: Consent of the instructor.

Span 490 HONORS COURSE IN SPANISH, 3 cr.

Individual study and research on topics and materials not covered by regular course work in Spanish.

Prerequisite: Junior Standing or scheduled with a quality point average of 3.25 in all work*, recommendation of the Modern Language Department and approval of the Dean of Instruction.

* With a minimum of 15 hours completed in Spanish beyond 104.

MUSIC DEPARTMENT

Mr. Dovenspike, Department Head: Mr. Colelli, Mr. Dolinar, Mr. Sessler, Mr. Sporny, Mr. Suskalo, Mr. Sutton, Mrs. Wilson

Mus 180 CO-CURRICULAR ACTIVITIES I — BAND, 1 cr.

Entrance by interview with Band Director. Required attendance at rehearsals and all public performances. Band meets 5th period five (5) times a week during football season and four (4) times a week during concert season.

Mus 181 CO-CURRICULAR ACTIVITIES I — CHORUS, 1 cr.

Entrance by interview with Choir Director. Required attendance at rehearsals and all public performances. Chorus meets 5th period—Tuesday, Thursday, and Friday.

Mus 182 CO-CURRICULAR ACTIVITIES I — MEN'S GLEE CLUB, 1 cr.

Entrance by interview with Men's Glee Club Director. Required attendance at rehearsals and all public performances. Men's Glee Club meets 5th period—Monday, Wednesday.

Mus 183 CO-CURRICULAR ACTIVITIES I — WOMEN'S GLEE CLUB, 1 cr.

Entrance by interview with Women's Glee Club Director. Required attendance at rehearsals and all public performances. Women's Glee Club meets 5th period—Monday, Wednesday and Friday.

Mus 184 CO-CURRICULAR ACTIVITIES I — ORCHESTRA, 1 cr.

Entrance by interview with Orchestra Director. Required attendance at rehearsals and all public performances. Orchestra meets on Wednesday evenings.

* Mus 201 INTRODUCTION TO MUSIC, 2 cr.

This course provides an orientation in music experience which aims to equip the prospective teacher with a knowledge and understanding of music as it relates to general education and the art of daily living. Through the use of recordings, radio, concerts, and other media, every possible contact is made with music. The possibility of correlation with other subjects is explored. This course is required of all sophomores in general education. No prerequisite courses or special abilities are required. (One class hour may be integrated with World Culture II.)

Two class hours each week.

Mus 221 RHYTHMIC EXPERIENCES, 2 cr.

Actual performance experiences on tuned and non-tuned percussion instruments to develop rhythmic coordination and reinforce ability to read rhythmic notation. Further experiences in body coordination through rhythmic activities. Theoretical study of time signatures, counting and clapping rhythms individually.

Two class hours each week.

Mus 280 CO-CURRICULAR ACTIVITIES II - BAND, 1 cr.

Entrance by interview with Band Director. Required attendance at rehearsals and all public performances. Band meets 5th period, five (5) times a week, during football season and four (4) times a week during concert season.

Mus 281 CO-CURRICULAR ACTIVITIES II - CHORUS, 1 cr.

Entrance by interview with Choir Director. Required attendance at rehearsals and all public performances. Chorus meet 5th period--Tuesday, Thursday and Friday.

Mus 282 CO-CURRICULAR ACTIVITIES II - MEN'S GLEE CLUB, 1 cr.

Entrance by interview with Men's Glee Club Director. Required attendance at rehearsals and all public performances. Men's Glee Club meets 5th period -Monday, Wednesday.

Mus 283 CO-CURRICULAR ACTIVITIES II - WOMEN'S GLEE CLUB, 1 cr.

Entrance by interview with Women's Glee Club Director. Required attendance at rehearsals and all public performances. Women's Glee Club meets 5th period--Monday, Wednesday and Friday.

Mus 284 CO-CURRICULAR ACTIVITIES II - ORCHESTRA, 1 cr.

Entrance by interview with Orchestra Director. Required attendance at rehearsals and all public performances. Orchestra meets on Wednesday evening.

Mus 301 THEORY I, 3 cr.

Thorough training in the melodic, and harmonic elements of music. Includes study of major and minor scales, intervals, major and minor triads, inversions, introduction and use of I, IV, V chords. Melodic and harmonic dictation. Keyboard harmony.

Three class hours each week.

Mus 302 THEORY II, 3 cr.

Continuation of melodic and harmonic dictation. Introduction of seventh chords. Four part harmonization. Further investigation into other chords and their uses. Transportation, modulation and the writing of original songs.

Three class hours each week.

Mus 311 KEYBOARD EXPERIENCES, 2 cr.

Concentration on piano technique using beginners piano method and advancing as far as possible into higher graded material. Ability to play accompaniments for songs found in the basic music series for elementary schools.

Three class hours each week.

Mus 312 SIGHT SINGING, 3 cr.

Concentration on sight reading of material traditionally taught in public schools. Includes both melodic and rhythmic aspects as well as two, three, and four part singing.

Three class hours each week.

Mus 326 CHILDREN'S SONG LITERATURE, 3 cr.

Study and memorization of songs for all occasions. Songs about animals, seasons, transportation, other countries, etc., are representative of material to be included. Purpose of course is to provide a memory repertoire for the teacher.

Three class hours each week.

Mus 380 CO-CURRICULAR ACTIVITIES III - BAND, 1 cr.

Entrance by interview with Band Director. Required attendance at rehearsals and all public performances. Band meets 5th period, five (5) times a week, during football season and four (4) times a week during concert season.

Mus 381 CO-CURRICULAR ACTIVITIES III - CHORUS, 1 cr.

Entrance by interview with Choir Director. Required attendance at rehearsals and all public performances. Chorus meets 5th period—Tuesday, Thursday, and Friday.

Mus 382 CO-CURRICULAR ACTIVITIES III - MEN'S GLEE CLUB, 1 cr.

Entrance by interview with Men's Glee Club Director. Required attendance at rehearsals and all public performances. Men's Glee Club meets 5th period—Monday and Wednesday.

Mus 383 CO-CURRICULAR ACTIVITIES III - WOMEN'S GLEE CLUB, 1 cr.

Entrance by interview with Women's Glee Club Director. Required attendance at rehearsals and all public performances. Women's Glee Club meets 5th period—Monday, Wednesday and Friday.

Mus 384 CO-CURRICULAR ACTIVITIES III - ORCHESTRA, 1 cr.

Entrance by interview with Orchestra Director. Required attendance at rehearsals and all public performances. Orchestra meets on Wednesday evening.

Mus 430 OPERA SURVEY, 3 cr.

This course will provide students with (1) the origin and history of opera, (2) national contributions to the art, (3) the listing and analysis of numerous representative operas, (4) the relationship of plots to history and events.

Three class hours each week.

Mus 432 TWENTIETH CENTURY MUSIC SURVEY, 3 cr.

A study of the development of Contemporary music. A discussion of causes and effects of compositional styles and the listening of such styles on recordings. Also the implication of jazz in the contemporary scene.

Three class hours each week.

OUTDOOR RECREATION AND EDUCATION DEPARTMENT

Dr. Black, *Department Head.*

Majors in Outdoor Recreation must bear costs of transportation in all courses in which field trips are held. Costs of food and lodging must be paid by the student for camp experiences. The student will be expected to furnish his own equipment and material for certain functions, such as a sleeping bag for camping and firearms for shooting.

OR 310 NATURAL HISTORY I (Summer), 3 cr.

Field exploration for identification and study of both living and non-living things in the complex interrelationships in nature. The significance of the environment to man. The conservation practices needed to maintain the environment.

(May be taken in any order.)

Prerequisites: Man and His Biological World, Man and His Physical World, Physical Geology, Meteorology.

Required of all Outdoor Recreation Majors.

One afternoon each week.

OR 311 NATURAL HISTORY II (Fall), 3 cr.

Field exploration for identification and study of both living and non-living things in the complex interrelationships in nature. The significance of the environment to man. The conservation practices needed to maintain the environment.

(May be taken in any order.)

Prerequisites: Man and His Biological World, Man and His Physical World, Physical Geology, Meteorology.

Required of all Outdoor Recreation Majors.

One afternoon each week.

OR 312 NATURAL HISTORY III (Winter-Spring), 3 cr.

Field exploration for identification and study of both living and non-living things in the complex interrelationships in nature. The significance of the environment to man. The conservation practices needed to maintain the environment.

(May be taken in any order.)

Prerequisites: Man and His Biological World, Man and His Physical World, Physical Geology, Meteorology.

Required of all Outdoor Recreation Majors.

One afternoon each week.

OR 321 OUTDOOR LIVING WITH SAFETY AND SURVIVAL, 4 cr.

The elements of safety and survival in the out-of-doors. Field trips are made to representative living areas. Weekends are spent in outdoor living under varying conditions.

Prerequisite: Consent of Instructor.

Required of all Outdoor Recreation Majors.

One afternoon each week plus several weekends.

Given only in summer.

OR 330 OUTDOOR RECREATION I (Summer), 2 cr.

Leadership training in theory, demonstration and student participation in all types of outdoor recreation through the four seasons of the year.

(May be taken in any order.)

Prerequisite: Consent of Instructor.

Required of all Outdoor Recreation Majors.

One half day each week.

OR 331 OUTDOOR RECREATION II (Fall), 2 cr.

Leadership in training in theory, demonstration and student participation in all types of outdoor recreation through the four seasons of the year.

(May be taken in any order.)

Prerequisites: Consent of instructor.

Required of all Outdoor Recreation Majors.

One half day each week.

OR 332 OUTDOOR RECREATION III (Winter-Spring), 2 cr.

Leadership in training in theory, demonstration and student participation in all types of outdoor recreation through the four seasons of the year.

(May be taken in any order.)

Prerequisite: Consent of instructor.

Required of all Outdoor Recreation Majors.

One half day each week.

OR 341 CAMP ORGANIZATION, 3 cr.

Emphasis through theory, philosophy and practice of the requisites of organizing and administering representative private and agency camps, both short and long term.

Prerequisite: Consent of instructor.

Required of all Outdoor Recreation Majors.

One half day each week plus weekends working in camps.

OR 344 CAMP MANAGEMENT, 3 cr.

The role of the camp manager as a business administrator in relation to the total camp program. Theory is studied and actual camp experience is required.

Prerequisite: Camp Organization and Administration.

Required of all Outdoor Recreation Majors.

One half day each week plus weekends in camps.

OR 347 CAMP COUNSELING, 3 cr.

The philosophy and basic practical experiences needed for learning the counselor's responsibilities for campers.

Prerequisites: General Psychology, Introduction to Philosophy plus consent of Instructor.

One half day each week plus weekends in camps.

OR 351 SCHOOL AND COMMUNITY RECREATION, 3 cr.

Principles of school and community recreation planning. Analysis of the recreation needs of a particular school system or a community.

Prerequisite: Camp Management.

One half day per week (one day in summer terms.)

OR 354 PARKS AND PLAYGROUND MANAGEMENT, 3 cr.

Organization, operation and management of public and private facilities, large and small; including facilities with Specialized functions such as trap, skeet and rifle ranges, golf courses, fee fishing facilities, swimming pools and skating rinks.

Prerequisites: Recreation Organization.

3 periods per week plus field trips.

OR 361 CAMP ARTS AND CRAFTS, 3 cr.

Creative experience in such camp arts and crafts as basketry, ceramics, leatherwork, metal work, plastics, stone work, wood carving. American Indian Crafts are studied.

Prerequisite: Consent of Instructor.

3 periods per week.

OR 371 RECREATION FOR SPECIAL INTEREST GROUPS, 3 cr.

Recreation in schools, institutions, and community facilities for such groups as pre-school children, the physically handicapped, mentally retarded, emotionally disturbed, aged.

Prerequisite: Consent of Instructor.

Hours arranged. Actual experiences emphasized.

OR 381 THE RECREATION MOVEMENT, 3 cr.

The development of the conservation, recreation and park movements.

Prerequisite: none.

3 periods per week.

OR 384 OUTDOOR EDUCATION, 3 cr.

The development of programs for outdoor education. The problems of staffing, equipment, facilities are considered; particularly as related to school systems.

Prerequisites: Camp Management, Camp Counseling.

3 periods per week.

OR 387 RECREATION ORGANIZATION, 3 cr.

Objectives of and procedures for organization and implementation of recreation programs. Planning for use of outdoor areas.

Prerequisite: Camp Management and Camp Counseling or Consent of Instructor.

3 periods per week.

When given in summer may be two to three weeks internship program.

OR 401 SPECIAL STUDIES, I, 1 cr.

In-service training experiences in camps, parks, playgrounds, schools and institutions.

Prerequisite: Consent of Instructor.

To be arranged—May be taken concurrently.

May be repeated.

OR 402 SPECIAL STUDIES, II, 2 cr.

In-service training experiences in camps, parks, playgrounds, schools and institutions.

Prerequisite: Consent of Instructor.

To be arranged—May be taken concurrently.

May be repeated.

OR 403 SPECIAL STUDIES, III, 3 cr.

In-service training experiences in camps, parks, playgrounds, schools and institutions.

Prerequisite: Consent of Instructor.

To be arranged—May be taken concurrently.

May be repeated.

OR 495 SEMINAR, 1, 2, or 3 cr.

Research into recreation problems.

Prerequisite: Consent of Instructor.

To be arranged.

PHILOSOPHY DEPARTMENT

Dr. Lackner, *Department Head*; Mr. Berman, Mr. Cherrington, Mr. Smith, Dr. Tsambassis, Mr. Walsh.

Phil 101 INTRODUCTION TO PHILOSOPHY, 3 cr.

This course is designed to familiarize the student with the major problems of philosophy as discussed by classical and contemporary philosophers. Based on selected readings.

Three class hours per week.

Phil 102 INTRODUCTION TO LOGIC, 3 cr.

Examines the nature and forms of meaning and argument. It includes semantics (meaning of terms and functions of language), formal logic (deductive reasoning), and scientific methodology (induction).

Three class hours per week.

Phil 203 HISTORY OF ANCIENT PHILOSOPHY, 3 cr.

Ranges over the pre-Socratic philosophers, Plato, Aristotle, the Stoics, Epicureans, Sceptics, through to the philosophers of the Hellenistic period, including Plotinus.

Three class hours per week.

Phil 204 HISTORY OF MODERN PHILOSOPHY, 3 cr.

A survey of philosophical ideas from the Renaissance to the Enlightenment. It lays special emphasis on such influential thinkers as Francis Bacon, Descartes, Hobbes, Spinoza, Leibnitz, Locke, Berkeley, Hume, and Kant.

Three class hours per week.

Phil 302 HISTORY OF MEDIEVAL PHILOSOPHY, 3 cr.

Begins with Augustine and proceeds with Erigena, Anselm, Abelard, Aquinas, Roger Bacon, Duns Scotus, and William of Accam. Also includes such critical issues as the problem of Universals.

Three class hours per week.

Phil 304 NINETEENTH-CENTURY PHILOSOPHY, 3 cr.

Surveys the development of German Idealism with Fichte, Schelling, Hegel, and the voluntaristic reaction to it with Kierkegaard, Schopenhauer, and Nietzsche. Also examines the developments in British Empiricism and French Positivism.

Prerequisite: History of Modern Philosophy.

Three class hours per week.

Phil 305 ETHICS, 3 cr.

Examines the major ethical systems of Western Civilization, and discusses their philosophical foundations. Analyzes the meaning of such moral terms as "good," "right," and "duty."

Three class hours per week.

Phil 306 PHILOSOPHY OF RELIGION, 3 cr.

Discusses the nature of religion, the arguments for and against the existence of God, the question of religious knowledge (mysticism and revelation), the problem of evil, the quest for immortality, and the nature of religious discourse.

Three class hours per week.

Phil 307 PHILOSOPHY OF ART, 3 cr.

Examines the nature and basis of criticism in the fine arts, including literature, painting, music, sculpture, architecture, and the dance. Based on selected readings from prominent classical and contemporary philosophers and art criticism.

Three class hours per week.

Phil 308 AMERICAN PHILOSOPHY, 3 cr.

Surveys the development of American thought from Jonathan Edwards to the present. Lays special emphasis on Peirce, Royce, James, Santayana, Dewey, and Whitehead.

Three class hours per week.

Phil 309 HISTORY OF SCIENCE, 3 cr.

A survey of the development of scientific inquiry among Greek, Medieval, and Classical Renaissance thinkers.

Three class hours per week.

Phil 401, 402, 403 SPECIAL PROBLEMS IN PHILOSOPHY, 3 cr.

(I, II, or III following course number of semester hours.) The subject is selected by the instructor with the approval of the Department. Depending on the choice and special interest of the instructor, such areas as Social and Political Philosophy, British Empiricism, Continental Rationalism, etc., will be examined.

Three class hours per week.

Phil 404 METAPHYSICS, 3 cr.

Inquiry into the nature of reality and the meaning of existence.

Prerequisite: Phil 204 or 304.

Three class hours per week.

Phil 405 SYMBOLIC LOGIC, 3 cr.

An advanced course in logic which examines the meaning of statement connectives and the use of truth tables, the structure of arguments in terms of the propositional calculus, quantification, and classes, and the structure of axiomatic systems.

Prerequisite: Phil 102.

Three class hours per week.

Phil 406 CONTEMPORARY PHILOSOPHY, 3 cr.

Discusses current philosophical movements, such as Linguistic Analysis and Logical Positivism, Phenomenology and Existentialism. Dialectical Materialism, Realism, Idealism, Naturalism, and Pragmatism.

Prerequisite: Phil 204 or 304.

Three class hours per week.

Phil 407 EPISTEMOLOGY, 3 cr.

A historical survey of theories of knowledge, both classical and contemporary.

Prerequisite: Phil 204.

Three class hours per week.

Phil 408 PHILOSOPHY OF SCIENCE, 3 cr.

Study of the methods, concepts, and presuppositions of scientific inquiry.

Prerequisite: Phil 102 and 204.

Three class hours per week.

Phil 491, 492, 493 HONORS COURSES

(I, II, or III following course number indicates number of semester hours.)

This course is designed to provide the student with an opportunity to engage in independent research in Philosophy under the direction of a member of the faculty.

Prerequisite: High academic performance.

Consent of instructor, Department Head and Dean of Academic Affairs.

Phil 495 SEMINAR IN PHILOSOPHY

The student will have the opportunity of making an intensive examination of the thought of one outstanding philosopher in the history of philosophy, whether ancient, medieval, modern, or contemporary. The philosopher will be chosen by the instructor with the approval of the Department.

Prerequisite: Nine hours in Philosophy, plus permission of instructor.

PHYSICAL SCIENCE DEPARTMENT

Mr. Craig, *Department Head*; Mrs. Costello, Mr. Fleming, Dr. Fusco, Mr. Hackett, Mr. Hartman, Dr. Kells, Mr. Lazzaro, Mr. Matzen, Mr. Petrick, Mr. Robin, Dr. Serene, Mr. Zoppetti.

PHYSICAL SCIENCE

* Sci 111 MAN AND HIS PHYSICAL WORLD, 5 cr.

A broad, survey-type, non laboratory course devoted to the field of physics, chemistry and astronomy and their related branches. Besides lecture-recitation methods, motion pictures, demonstration experiments, oral report and other activities of a research or audio visual project type are used.

Five class hours each week.

CHEMISTRY

Chemistry 101 GENERAL CHEMISTRY I, 4 cr.

The course includes a chemical study of the structure and behavior of matter. Topics stressed the first trimester include atomic structure and valence, equation and formula writing, the periodic table, the gas laws, oxidation and reduction, solutions, and ionization stoichiometry.

Three lecture hours and three laboratory hours each week.

Prerequisites:

Chemistry 102 GENERAL CHEMISTRY II, 4 cr.

Includes the fundamental ideas concerning the common metals and non-metals, and introduction to radioactivity and nuclear reactions and semi-micro qualitative analysis.

Three lecture hours and three laboratory hours each week.

Prerequisites:

Chemistry 201 ANALYTICAL CHEMISTRY I, 4 cr.

A study of the theoretical principles and practices underlying analytical chemistry. It includes study and practice in separating and identifying the cations and anions, mathematical computations of chemical equilibrium in solutions of electrolytes, and an introduction to the statistical method applicable to qualitative and quantitative procedures.

Prerequisites: Chemistry 101 and 102.

Chemistry 202 ANALYTICAL CHEMISTRY II, 4 cr.

A continuation of Chemistry III, including a study of the relationship of qualitative and quantitative analytical procedures; theory and practice of volumetric, gravimetric, and colorimetric determinations; electro-deposition and oxidation reduction methods; and unknowns involving the practices of both qualitative and quantitative procedures, stressing precision, accuracy, significant figures, and errors.

Three lecture hours and four laboratory hours each week.

Prerequisite:

Chemistry 301 ORGANIC CHEMISTRY I, 4 cr.

An elective for those who plan to major or minor in Chemistry. It includes a study of the hydrogen compounds of carbon of the aliphatic series and emphasis on structural relationships and nomenclature as well as uses, characteristic properties, and synthesis.

Three class and four laboratory hours each week.

Prerequisite: Chemistry 101 and 102.

Chemistry 302 ORGANIC CHEMISTRY II, 4 cr.

A continuation of Organic Chemistry I, dealing primarily with the amines and proteins and those compounds belonging to the aromatic series. Both micro and semi-micro techniques are employed to stress the properties and type reactions of the usual classes of organic compounds.

Three class and four laboratory hours each week.

Prerequisite: Chemistry 301.

Chemistry 311 ORGANIC PREPARATIONS, 3 cr.

An advanced course in synthetic organic chemistry. Important reactions and special experimental techniques are applied to the preparation of more complex organic compounds.

Three class and four laboratory hours each week.

Prerequisite: Chemistry 201 and 202.

Chemistry 321 BIOCHEMISTRY I, 4 cr.

Includes the chemistry of the carbohydrates, fats and proteins; a survey of the chemistry and function of enzymes, vitamins and hormones.

Three class and four laboratory hours each week.

Prerequisite: Chemistry 301 and 302.

Chemistry 322 BIOCHEMISTRY II, 4 cr.

Includes the chemistry of the carbohydrates, fats and proteins; a survey of the chemistry and function of enzymes, vitamins and hormones.

Three class and four laboratory hours each week.

Prerequisite: Chemistry 301, 302, 321.

Chemistry 351 AGRICULTURAL CHEMISTRY, 3 cr.

Includes discussion of plant fertilizers and their soil reactions, plant composition and chemurgy, chemical control of weeds, etc. as well as laboratory work in the field.

Prerequisite: Chemistry 201 and 202, and 301.

Chemistry 361 INDIVIDUAL WORK I, 1 cr.

An opportunity for each student specializing in the area of Chemistry to organize, investigate and report on a specific problem on his own selection.

Chemistry 362 INDIVIDUAL WORK II, 1 cr.

The continuation of Individual Work I in the second trimester.

Prerequisite: Individual Work I.

Chemistry 401 PHYSICAL CHEMISTRY I, 4 cr.

Properties of gasses: elementary thermodynamics; thermochemistry; kinetic molecular theory; atomic and molecular structure; introduction to the theory of chemical bonding.

Prerequisites: Chemistry 201 and 202.

Mathematics through integral calculus.

Three hours lecture and four hours laboratory each week.

Chemistry 402 PHYSICAL CHEMISTRY II, 4 cr.

Kinetics: properties of solids and liquids: phase equilibria: colligative properties of solutions; electrolytic conductance and electrochemistry.

Prerequisite: Chemistry 401.

Three lecture hours and four hours laboratory each week.

Chemistry 411 ADVANCED INORGANIC CHEMISTRY I, 3 cr.

Modern treatment of principles of inorganic chemistry emphasizing chemical bonding, stereochemistry, coordination and bases and non-aqueous solvents.

Prerequisite: Physical Chemistry 401 and 402.

Three class hours per week.

Chemistry 412 ADVANCED INORGANIC CHEMISTRY II, 3 cr.

Modern treatment of principles of inorganic chemistry emphasizing chemical bonding, stereochemistry, coordination compounds with emphasis on periodic properties, acids and bases and non-aqueous solvents.

Prerequisite: Chemistry 411.

Three class hours per week.

Chemistry 421 ADVANCED ORGANIC CHEMISTRY I, 3 cr.

Consideration of synthetic methods, structure determinations, and reaction mechanisms for acyclic, alicyclic, and aromatic compounds of synthetic and natural origin, with emphasis on modern theory and practice.

Prerequisites: Chemistry 301 and 302.

Three class hours per week.

Chemistry 422 ADVANCED ORGANIC CHEMISTRY II, 3 cr.

Consideration of synthetic methods, structure determinations, and reaction mechanisms for acyclic, alicyclic, and aromatic compounds of synthetic and natural origin, with emphasis on modern theory and practice.

Prerequisite: Chemistry 421.

Three class hours per week.

Chemistry 423 QUALITATIVE ORGANIC CHEMISTRY, 3 cr.

Identification of pure organic compounds and mixtures by classical as well as by instrumental methods.

Prerequisites: Organic 301 and 302.

Three class hours each week and four laboratory hours each week.

Chemistry 431 LITERATURE OF CHEMISTRY, 1 cr.

Designed for chemistry majors and includes a survey of the literature in the field.

Prerequisites: Completion of 18 hours in Chemistry and German I (two trimesters).

Every Chemistry major should endeavor to take this course.

One class hour each week.

Chemistry 441 LABORATORY TECHNIQUES WITH INSTRUMENTAL ANALYSIS I, 3 cr.

Includes laboratory planning; selecting, use, care, and storage of equipment, making of solutions and various reagents from stock supplies. Setting up of classroom demonstrations for use in secondary schools is stressed.

Prerequisite: Chemistry 201 and 202.

Three class and four laboratory hours each week.

Chemistry 442 LABORATORY TECHNIQUES WITH INSTRUMENTAL ANALYSIS II, 3 cr.

Includes laboratory planning; selecting, use, care and storage of equipment, making solutions and various reagents from stock supplies. Setting up of classroom demonstrations for use in secondary schools is stressed.

Prerequisite: Chemistry 441.

Three class and four laboratory hours each week.

Chemistry 445 CHEMISTRY FOR HIGH SCHOOL TEACHERS, 3 cr.

Designed to strengthen the preparation of the teacher in service and will include recent ideas in chemical bonding, crystal structure, radio and nuclear chemistry.

Prerequisite: Certification in Physical Science or Chemistry.

Three class hours per week.

Chemistry 451 ADVANCED PHYSICAL CHEMISTRY I, 3 cr.

Classical and statistical thermodynamics as applied to chemical systems.

Prerequisite: Physical Chemistry 401 and 402.

Chemistry 452 ADVANCED PHYSICAL CHEMISTRY II, 3 cr.

Prerequisite: Advanced Physical Chemistry 451, Kinetics and Electrochemistry.

Chemistry 495 CHEMISTRY SEMINAR, 1 cr.

An introduction to the literature, history, and research methods of chemistry.

PHYSICS

Physics 100 GENERAL PHYSICS, 4 cr.

An introductory course in physics with emphasis on mechanics. The topics include vectors, forces, work, power, and energy. Considerable attention is given to the application of the principles of physics to machines.

Prerequisite: Algebra.

Three class periods and three laboratory hours each week.

Physics 101 COLLEGE PHYSICS I, 4 cr. Mechanics and Heat

An introductory course in physics. Some of the topics studied are: the mechanics of solids, liquids, and gasses; work, power, and energy; heat phenomena. The student is given an opportunity and required to solve some problems and proofs by calculus.

Prerequisite: Differential Calculus.

Three class hours and three laboratory hour each week.

Physics 102 COLLEGE PHYSICS II, 4 cr. Sound, Light, Electricity and Magnetism

A continuation of Physics I. Some of the topics studied are: Production and nature of sound waves, including music sounds, reflection and refraction, optical instruments, spectre and interference; electricity and magnetism.

Prerequisite: Differential Calculus.

Three class hours and three laboratory hours each week.

Physics 110 ASTRONOMY, 3 cr.

Non-mathematical presentation of methods and results of astronomical discovery. The planet Earth—its shape, motions, and atmosphere. The seasons, calender, time of day. Telescopes and their uses. The moon—effects on the earth, surface features, phases and eclipses. The planetary system—Law of Gravitation—satellites, and eclipses. The stars in their seasons, constellations, star clusters, cosmic dust and gas, the galloctic system, the exterior galaxies.

Three hours lecture each week.

Physics 216 OPTICS, 4 cr.

Geometrical and physical optics including reflection and refraction at surfaces, lenses, interference and diffraction, elementary spectroscopy and polarization of light are discussed. Applications are made in the study of optical instruments.

Prerequisites: Physics I and II.

Three class hours and three laboratory hours each week.

Physics 221 MODERN PHYSICS, 3 cr.

This is a study of the twentieth century physics. The course includes the development in thermoionics, X-rays, and radioactivity. Considerable attention is given to the modern concepts of atomic structure together with the mechanisms of release of atomic energy and its subsequent utilization.

Prerequisites: Physics I, II and Calculus II.

Three class hours and three laboratory hours each week.

Physics 243 WAVE, MOTION, SOUND, 2 cr.

An intermediate course in physics considering stationary and moving waves, electromagnetic waves, Lorentz transformation of length and time, relativistic dynamics, sound and acoustics.

Prerequisites: College Algebra and Trigonometry.

Two class periods each week.

Physics 251 ELECTRONICS, 4 cr.

A first course in electronics which includes electronic emission, operation of vacuum tubes, gas filled tubes, amplifiers, rectifiers, oscillators, control and wave shaping circuits, and transistor theory.

Prerequisite: 1 year of Physics.

Recommended pre or co-requisite: Physics 103 and Differential Calculus.

Physics 301 ADVANCED MECHANICS, 4 cr.

In this course calculus is used freely in the solution of problems involving centroids, moment of inertia, statics and kinetics of a particle and rigid body. Vector Algebra (gradient, divergence, curl) and different coordinate systems are presented in solving problems.

Prerequisite: Physics 103 and 3 trimesters of Calculus.

Physics 316 ADVANCED ELECTRICITY AND MAGNETISM, 3 cr.

This course includes topics in Electrostatic Magnetostatic and electromagnetic fields. Electric circuit theory, electromagnetic waves, Maxwells equations, included. Vector Algebra (gradient divergence, curl, etc.) and different coordinate systems are presented in solving problems.

Prerequisite: Physics 103 and 3 trimesters of Calculus.

Three hours of lecture.

Physics 361 INDIVIDUAL WORK I, 1 cr.

An opportunity for each student specializing in the area of physics to organize, investigate and report on a specific problem of his own selection.

Physics 362 INDIVIDUAL WORK II, 1 cr.

Continuation of Individual Work I in the second trimester.

Physics 391 THERMODYNAMICS, 4 cr.

An intermediate course in physics considering equations of state, work, the laws of thermodynamics, change of phase, kinetic theory of gases, molecular velocities, transport phenomena, and statistical mechanics.

Prerequisites: Calculus I and II.

Three class periods and three laboratory hours each week.

Physics 411 ASTROPHYSICS, 3 cr.

A course in dealing with the application of physics and mathematics in the field of Astronomy. A study of recent discoveries in Radio Astronomy and the space program.

Prerequisites: Astronomy—12 credits of Physics and Calculus I and II.

Physics 495 SEMINAR IN PHYSICS, 1 cr.

An introduction to the literature, history, teaching and research methods of physics majors.

Prerequisites: 12 hours of credit in Physics.

PSYCHOLOGY DEPARTMENT

Dr. White, *Department Head*; Dr. Barasch, Dr. Craig, Dr. Gamble, Mr. Levandos, Dr. Long, Mr. McDonald, Mr. McIntyre, Miss O'Brien, Dr. Palermo, Dr. Seidel, Dr. Volkin, Mrs. Williams.

Psy 101 GENERAL PSYCHOLOGY, 3 cr.

A general introduction to the scientific study of behavior with emphasis on such topics as methods of study, learning, sensation, perception, development of the individual, motivation, personality, and individual differences.

Three class hours each week.

* Psy 201 EDUCATIONAL PSYCHOLOGY, 3 cr.

A study of the nature of the learning process with emphasis on the application of principles of learning to the problems of teaching. An important aspect of the course is the study of actual classroom problems and procedures by observation of regular work and by special illustrative demonstrations in the laboratory school. Recognizing the importance of the individual's learning process, this course deals with the psychological climate of the classroom, the importance of evaluating the child's total learning, the group process, and guidance as an essential part of creative teaching. The course should furnish the prospective teacher with a foundation in the theories, principles and master ideas of the educative process.

Prerequisite: General Psychology.

Three class hours each week.

Psy 300 DEVELOPMENTAL PSYCHOLOGY I, (CHILD DEVELOPMENT), 3 cr.

A study of the patterns of physical, mental, social and emotional development in the period of early childhood through the pre-pubescent period. The course will emphasize the normal development of the individual.

Prerequisite: General Psychology and for Teacher Education students a prerequisite is Educational Psychology.

Three class hours each week.

* Psy 301 DEVELOPMENTAL PSYCHOLOGY II, (ADOLESCENT PSYCHOLOGY), 3 cr.

A study of (1) developmental needs and adjustment problems experienced by pre-adolescents, adolescents, and young adults, (2) problems that confront parents, teachers, counselors, and other adults in their relations with individuals in these age groups, and (3) case reports of secondary school pupils in need of various kinds of assistance.

Prerequisite: General Psychology and for Teacher Education students a prerequisite is Educational Psychology.

Three class hours each week.

Psy 302 PSYCHOLOGY OF EXCEPTIONAL CHILDREN, 3 cr.

The problems of exceptional or atypical children. The major purpose is to gain a functional understanding of the various types of physical and mental "deviates", both as to the genesis of their behavioral processes, their treatment, and the guiding principles involved in their training.

Prerequisite: General Psychology.

Three class hours each week.

Psy 303 PSYCHOLOGY OF ADJUSTMENT, 3 cr.

A study of the individual's adjustive processes in personal and social relationships. The course will review the defensive reactions, abnormal behavioral reactions, problem solving, and superior adjustment.

Prerequisite: General Psychology.

Three class hours each week.

Psy 310 MENTAL HYGIENE, 3 cr.

Problems of personality and mechanisms of adjustment, including a study of the origin and resolution of conflicts, and the role of emotion in the patterns of behavior are studied. (This course should not be taken if Psychology of Adjustment has been taken.)

Prerequisite: General Psychology.

Three class hours each week.

Psy 320 SOCIAL PSYCHOLOGY, 3 cr.

A study of the interaction between the individual and his social groups within a cultural context. The course will be concerned with the individual in his social role, social status, social groups, and social institutions.

Prerequisite: General Psychology & Principles of Sociology.

Three class hours each week.

Psy 330 PHYSIOLOGICAL PSYCHOLOGY, 3 cr.

A study of the relationships between bodily processes and behavior. The course is designed to demonstrate the relationship between psychological phenomena and the physiological functioning of the organism. Topics covered in the course will include sensation and perception, reflexive behavior, motivation, emotional behavior and cortical functioning. Some laboratory experience will be included in the course.

Prerequisite: General Psychology.

Three class hours each week.

Psy 340 PSYCHOLOGICAL TESTING, 3 cr.

A study of the nature and function of measurement in psychology with concentration on test construction problems and procedures and an examination of some typical tests in the fields of intelligence, personality, special aptitudes, abilities and interests.

Prerequisite: General Psychology.

Three class hours each week.

Psy 400 SPECIAL STUDIES IN PSYCHOLOGY I, 1 cr.

This course provides the student with an opportunity to engage in individual study and research in an area of psychology of interest to the student. Admission to this course is subject to the approval of the department head.

Prerequisite: Consent of Instructor.

Psy 401 SPECIAL STUDIES IN PSYCHOLOGY II, 2 cr.

This course provides the student with an opportunity to engage in individual study and research in an area of psychology of interest to the student. Admission to this course is subject to the approval of the department head.

Prerequisite: Consent of the Instructor.

Psy 402 SPECIAL STUDIES IN PSYCHOLOGY III, 3 cr.

This course provides the student with an opportunity to engage in individual study and research in an area of psychology of interest to the student. Admission to this course is subject to the approval of the department head.

Prerequisite: Consent of the Instructor.

Psy 410 CLINICAL PSYCHOLOGY, 3 cr.

An introductory course designed to aid students to think creatively about the kinds of information and data to be obtained in studying individuals. The course seeks to point out some of the problems and procedures which constitute the type of clinical procedure. This course is not designed as a course to train the student to become a clinical psychologist, but rather is an introduction to the applied area of clinical psychology.

Prerequisite: General Psychology, Abnormal Psychology, Psychological Testing, Psychology of Personality and Senior Standing.

Three class hours each week.

Psy 411 PRACTICUM IN PSYCHOLOGY, varying cr. (Not currently offered)

Special study in case study methods, psychological testing and the use of clinical instruments; admission by permission of Dean of Academic Affairs.

Prerequisite: Psychological Testing, Statistics, Experimental Psychology, Clinical Psychology.

Psy 412 ABNORMAL PSYCHOLOGY, 3 cr.

A study of the symptoms, causes, incidence and forms of treatment of the more common types of abnormal behavior. Included will be a consideration of the neuroses, psychoses, character and personality disorders, mental deficiency and psychosomatic reactions. The course will give a brief introduction to some of the major theories of treatment.

Prerequisite: General Psychology and Junior Standing.

Three class hours each week.

Psy 415 EXPERIMENTAL PSYCHOLOGY, 4 cr.

An introduction to the experimental method as it is used in psychology. The course is concerned with methods, principles and theories in psychology. Laboratory time will be used to give the student an opportunity to repeat experimental studies and to develop independent studies.

Prerequisite: Statistics.

Two class hours and four laboratory hours each week.

Psy 420 PSYCHOLOGY OF PERSONALITY, 3 cr.

A study of the development, structure, and dynamics of personality. Some current theoretical approaches to the understanding and assessment of personality will be reviewed and evaluated.

Prerequisite: General Psychology and Junior Standing.

Three class hours each week.

Psy 430 HISTORY AND SYSTEMS OF PSYCHOLOGY, 3 cr.

A study of the historical development of psychology for its philosophical origins to the present day. The course will briefly review the philosophical origins and will place greatest emphasis on the development of scientific psychology from the early "schools" of psychology to the current "systems" of psychology.

Prerequisite: General Psychology and Junior Standing.

Three class hours each week.

Psy 435 PSYCHOLOGY OF LEARNING, 3 cr.

A study of the nature and conditions of learning. The course will examine the types of learning and the experimental procedures used in the study of learning problems. The various interpretations of the process will be examined and evaluated.

Prerequisite: General Psychology and Junior Standing.

Three class hours each week.

Psy 440 STATISTICS, 3 cr.

The course is designed to acquaint the student in psychology with the common statistical procedures used in the description of data gathered in the various types of psychology.

Three class hours each week.

Psy 445 INDUSTRIAL PSYCHOLOGY, 3 cr.

A study of the psychological principles applied to problems of business and industry. The course will be concerned with such topics as personnel selection and training, work efficiency, morale and leadership, and consumer behavior.

Prerequisite: General Psychology.

Three class hours each week.

Psy 490 SEMINAR IN PSYCHOLOGY I, 1 cr.

The course is a discussion type seminar course dealing with special areas of psychology not covered in the departmental course offerings. It is designed to give the student an opportunity to engage in readings in the literature of psychology and to engage in critical discussions of the topic.

Prerequisite: Junior or Senior Standing in Psychology.

Psy 491 SEMINAR IN PSYCHOLOGY II, 2 cr.

This course is a discussion type seminar course dealing with special areas of psychology not covered in the departmental course offerings. It is designed to give the student an opportunity to engage in readings in the literature of psychology and to engage in critical discussions of the topic.

Prerequisite: Junior or Senior Standing in Psychology.

Psy 492 SEMINAR IN PSYCHOLOGY III, 3 cr.

This course is a discussion type seminar course dealing with special areas of psychology not covered in the departmental course offerings. It is designed to give the student an opportunity to engage in readings in the literature of psychology and to engage in critical discussions of the topic.

Prerequisite: Junior or Senior Standing in Psychology.

Psy 495 HONORS COURSE IN PSYCHOLOGY, 3 cr.

This course is designed to provide the student with an opportunity to engage in independent research in Psychology under the direction of a member of the faculty.

Prerequisite: High Academic Performance, Consent of Instructor, Department Head and Dean of Academic Affairs.

SECONDARY EDUCATION DEPARTMENT

Dr. Ball, *Department Head*; Dr. Benedetti, Mr. Butler, Mr. Cairns, Dr. Crowley, Dr. Culler, Dr. Jones, Mr. Mattee, Mr. Owsiany.

- * Sec Ed 301 PROBLEMS OF SECONDARY EDUCATION, 3 cr.
The practical problems of teaching and learning in the secondary school with emphasis on principles of problem solving are studied. A survey is made of the structure and nature of American Secondary Education. Tools and techniques used in problem solving are introduced. A problem study using action research is a requirement of the course.
Prerequisite: Educational Foundations and Educational Psychology.
Three class hours each week.
- ↓ Sec Ed 420 INTRODUCTION TO GUIDANCE AND PERSONNEL SERVICES, 3 cr.
The principle objective of this course is to develop an understanding of the principles of guidance with emphasis on basic concepts and procedures for guidance services as well as the organization and administration of the guidance program are considered.
Prerequisite: Educational Foundations and Educational Psychology.
Three class hours each week.
- Sec Ed 430 EDUCATIONAL TESTS AND MEASUREMENTS IN SECONDARY SCHOOLS, 3 cr.
This course is a consideration of the simpler statistical measures, with particular stress on the application to classroom work, and of the principles underlying the construction of valid, reliable objective tests. Practice opportunities are offered for the construction of classroom tests in various subject-matter fields.
Prerequisite: Educational Psychology.
Three class hours each week.
- Sec Ed 435 SCHOOL AND COMMUNITY, 3 cr.
The development of classroom techniques which lead to cooperative understandings between school and community is a chief objective of this course. Considerable attention is given to the structure of the community, its groups, and their goals. The school is viewed in its role as a public relations laboratory.
Three class hours each week.
- Sec Ed 440 TEACHING OF ENGLISH IN SECONDARY SCHOOLS, 3 cr.
The application of principles of educational psychology, philosophy, and sociology to the teaching of English in junior and senior high school. The course includes both practical techniques of classroom practice and an investigation of the larger problems of the profession. Adequate prior content courses in English are necessary to the student undertaking this course.
Three class hours each week.
- Sec Ed 441 TEACHING OF GEOGRAPHY AND EARTH SCIENCE IN SECONDARY SCHOOLS, 3 cr.
A review of concepts and basic philosophy in geography and earth science. The course includes a survey of available materials and current curriculums in the fields of geography and earth science which form the bases for analysis of modern techniques in the teaching of these subjects.
Prerequisite: 18 credits in geography and/or earth science.
Three class hours each week.

Sec Ed 442 **TEACHING MATHEMATICS IN SECONDARY SCHOOLS**, 3 cr.
The mathematical abilities of the secondary student are diagnosed. Methods of mathematical teaching are discussed and presented. Results of mathematical education according to recent research are studied and trends are indicated. The control and use of the visual aids pertaining to mathematics is presented as well as sources of information. How to maintain a mathematics classroom, and a study of student, teacher, administration and community problems with proper methods of instruction are considered. Content material will be included at the discretion of the mathematics department. Evaluation is maintained by tests, reports, textbook evaluations, course outlines, unit plans, projects and teaching lessons.

Prerequisite: Mathematical Insights.

Three class hours each week.

Sec Ed 443 **TEACHING MODERN LANGUAGES IN THE SECONDARY SCHOOLS**, 3 cr.

This course will be taught in the language laboratory. It will cover the theory and practice of teaching and modern language. Instruction in the use of the laboratory will be given.

Prerequisite: Completion of at least one trimester of the junior year.

Three class hours each week.

Sec Ed 444 **TEACHING OF SCIENCE IN SECONDARY SCHOOLS**, 3 cr.

This course is planned to give the prospective science major a thorough grounding in the problems of teaching science. The objectives of the science program in the secondary school, selection of textbooks, sources of suitable literature, how to secure materials for instruction, the preparation of units, and special techniques are studied.

Prerequisite: 12 hours of work in major field.

Three class hours each week.

* Sec Ed 445 **TEACHING OF SOCIAL STUDIES IN SECONDARY SCHOOLS**, 3 cr.

This course is intended to familiarize prospective teachers with desirable methods which may be used in teaching the social studies. Emphasis is placed on the philosophy, objectives, courses of study, and organization of subject matter for teaching purposes, curriculum materials, procedures and development.

Three class hours each week.

Sec Ed 446 **TEACHING OF SPEECH IN SECONDARY SCHOOLS**, 3 cr.

Problems in the selection of materials for courses of study, forensics, group discussions, assemblies, dramatics and correction and improvement programs on the secondary level. This study is planned to benefit students specializing in the teaching of oral English, speech and dramatics and those supervising extra-curricular activities in the speech field.

Three class hours each week.

Sec Ed 449 **PRINCIPLES OF TEACHING**, 3 cr.

The course is primarily concerned with the direction of learning, the understanding and use of common procedures in teaching, the planning of instruction, the evaluation of the effectiveness of instruction, and characteristics of an effective teacher.

Prerequisite: Educational Foundations and Educational Psychology. In certain situations, this course may be substituted for the Secondary Teaching Methods Course. Admittance only by consent of the Department Head of Secondary Education.

Sec Ed 450 STUDENT TEACHING, 12 cr.

Observation and participation in all teaching and activities related to the performance of a teacher's work, in the area of the student's specialization.

Prerequisite: A general quality point average of C or 2.0 and 2.0 in their area of specialization. The student spends full time in actual classroom teaching for a trimester of 16 weeks.

Sec Ed 451 PROFESSIONAL PRACTICUM AND SCHOOL LAW, 2 cr.

Methods and practices of teaching. General techniques of teaching and techniques for the student's special fields. Pennsylvania school laws relevant to the work of the classroom teacher. Problems encountered by the students in their student teaching.

Two class hours each week.

Sec Ed 455 MODERN METHODS IN SECONDARY SCHOOLS, 3 cr.

An analysis of the functions of secondary education and of classroom problems, followed up by the presentation of techniques for the solution of such problems advocated by the more recent literature in the field.

Three class hours each week.

Sec Ed 456 THE SECONDARY SCHOOL CURRICULUM, 3 cr.

An analysis of the functions of secondary school curriculum including: the historical development of the high school curriculum; current and projected trends; patterns of curriculum development; the dynamics of curriculum improvement; curriculum provisions for meeting individual differences; trends in specific instructional fields; the place and purpose of student activities and the extra-class curriculum.

Three class hours each week.

Sec Ed 463 SECONDARY READING AND ACADEMIC DISCIPLINE, 2 cr.

The purpose of this course is to help the prospective teachers of the Secondary Academic subject areas develop an understanding and appreciation of the necessary reading skills needed by their students. Methods of establishing awareness of general reading needs as well as the special skills unique to their subject area will be stressed.

Two class hours each week.

Sec Ed HONORS SEMINAR, 3 cr.

A seminar intended to provide an experience of quality that exploits the human and other resources of the college. The major emphasis is to be on inquiry rather than the mere acquisition of information. The methodology of the course is designed to feature the Socratic method, case study, action research, or problem-oriented techniques. The examination, in the form of a defense of a paper written by the student in his major field, is intended to minimize routine summary and to maximize critical thinking.

Prerequisite: Educational Foundations and Educational Psychology.

Three class hours each week.

SOCIAL STUDIES DEPARTMENT

Dr. Jack, *Department Head*; Mr. Brown, Mr. Buchovecky, Dr. Coode, Mr. Diehl, Mr. Fear, Mr. George, Dr. Harris, Dr. Hart, Mr. Hepner, Mr. Kania, Dr. Keller, Mr. Lechner, Mr. Lucas, Mr. Marshall, Mr. Norman, Dr. Papacostas, Dr. Planinsic, Mr. Pushkarsh, Dr. Schmidt, Mr. Schneider, Dr. Siegal, Dr. Thomas, Mr. Welsh, Mr. Womsley, Mr. Zemo.

SOCIAL STUDIES

S Std 101 WORLD CULTURE I, 3 cr.

A survey of the evolution of man's culture—his governmental, economic, social, religious, intellectual, and aesthetic activities from ancient times to the beginning of the modern world.

Three class hours each week.

* S Std 102 WORLD CULTURE II, 3 cr.

A survey of the evolution of man's culture—his governmental, economic, social, religious, intellectual, and aesthetic activities from the end of the ancient world to modern times.

Three class hours each week.

S Std 180 THE SLAVIC WORLD, 3 cr.

A general survey of the historical and cultural background and development of the western, southern and eastern Slavs, from the origins of the Slavic tribes to the present.

Three class hours each week.

S Std 181 THE SLAVIC WORLD II, 3 cr.

An analysis of the governments and political systems of Bulgaria, Yugoslavia, Czechoslovakia, Poland and the Soviet Union, with special emphasis placed upon ideology, the politics of Communist parties, present and past, governmental structures and processes, and theories concerning the evolution of Communist systems in these countries.

Three class hours each week.

S Std 401 SPECIAL PROBLEMS IN SOCIAL SCIENCE I, 1 cr.

Development of individual programs by students. Does not replace any course regularly given.

S Std 402 SPECIAL PROBLEMS IN SOCIAL SCIENCE II, 2 cr.

Development of individual programs by students. Does not replace any course regularly given.

S Std 403 SPECIAL PROBLEMS IN SOCIAL SCIENCE III, 3 cr.

Development of individual programs by students. Does not replace any course regularly given.

S Std 491 HONORS COURSE IN SOCIAL STUDIES I, 3 cr.

Directed reading and research in the area of interest chosen by the student in consultation with an instructor.

Prerequisite: Provisions of the Honors Program of the College.

S Std 492 HONORS COURSE IN SOCIAL STUDIES II, 3 cr.

Directed reading and research in the area of interest chosen by the student in consultation with an instructor.

Prerequisite: Provisions of the Honors Program of the College and S Std 491.

S Std 493 HONORS COURSE IN SOCIAL STUDIES III, 3 cr.

Directed reading and research in the area of interest chosen by the student in consultation with an instructor.

Prerequisite: Provisions of the Honors Program of the College and S Std 491 & 492.

S Std 495 SEMINAR IN SOCIAL STUDIES, 3 cr.

Selected studies in the literature, philosophy, techniques, and research of social studies.

Prerequisite: Permission of the Instructor.

ECONOMICS

Econ 101 PRINCIPLES OF ECONOMICS I, 3 cr.

The course emphasizes economic principles and problems which are fundamental for an understanding and appreciation of our modern system. While stressing the basic economic concepts and national income, attention is also given to practical economic matters, including labor problems, finance, taxation, business cycles and fiscal policy.

Three class hours each week.

Econ 102 PRINCIPLES OF ECONOMICS II, 3 cr.

The course consists of an analytical study of certain crucial present day problems such as the composition and pricing of national income, the distribution of income and the pricing of the productive factors, international trade and finance, current economic problems and the individual's responsibility as a citizen of the world.

Prerequisite: Economics 101.

Three class hours each week.

Econ 203 INDUSTRIAL RELATIONS, 3 cr.

The methods by which workers, employers and the public have been and are now attempting to solve their problems are examined in the light of underlying economic principles. Labor and management representatives from the area are invited to discussion sections when possible.

Three class hours each week.

Econ 205 DEVELOPMENT OF THE AMERICAN ECONOMY, 3 cr.

A critical analysis of economic life in Colonial America. A study of the East-West immigration and the growth of modern business and industry in the United States. Special attention is directed to the corporations and its part in the nation's dynamic growth. The causes and consequence of the great depression are also considered.

Three class hours each week.

Econ 206 HISTORY OF ECONOMIC THOUGHT, 3 cr.

An extensive survey of the development of economic thought from approximately 1700 to 1900, stressing the contributions of Smith, Malthus, Ricardo, Marx, and Mill.

Three class hours each week.

Econ 211 MONEY AND BANKING, 3 cr.

The course concentrates on the functioning of the monetary and banking system as a whole and its relationship with the rest of the economy. Emphasis is placed on the study of commercial banks, the Federal Reserve System, the Treasury Department, the nature of money and the significance of monetary policy.

Prerequisite: Economics 101.
Three class hours each week.

Econ 212 PUBLIC FINANCE, 3 cr.

A study of governmental activities in the collection and spending of public income. Subjects covered include: government expenditures, taxes and revenues, public debt management, fiscal policy and fiscal administration.

Prerequisite: Economics 101.
Three class hours each week.

Econ 221 INTERMEDIATE MICRO ECONOMIC THEORY, 3 cr.

A review of the nature and scope of economic theory. A study of value theory, wage theory, the theory of factor prices and income distribution, output determination, capital investments, rents and profits.

Three class hours each week.

Econ 222 ACCOUNTING I, 3 cr.

The course places emphasis on the basic concepts of accounting and uses of accounting data. It is designed for students who plan to continue with additional courses as well as for those whose needs are limited to an introductory course.

Three class hours each week.

Econ 223 ACCOUNTING II, 3 cr.

The course places emphasis on financial reports for the use of management in planning and controlling operations. Emphasis is placed on decision making. Sufficient coverage of the techniques of data processing is employed to provide the foundation for an adequate understanding of the basics of system design and internal control.

Prerequisite: Accounting I.
Three class hours each week.

Econ 225 MONETARY AND FISCAL POLICY, 3 cr.

A comprehensive analysis of monetary and income theory. The role of monetary and fiscal policies in periods of depression, inflation and economic stability.

Prerequisite: Economics 211.
Three class hours each week.

Econ 230 INTERMEDIATE MACRO ECONOMIC THEORY, 3 cr.

An analysis and measurement of the forces that determine the level of aggregate economic activity. Included is the measurement of economic activity, problems in the control of economic activity and the level of economic activity.

Prerequisite: Economics 102.

Econ 240 COMPARATIVE ECONOMIC SYSTEMS, 3 cr.

An examination of the various economic aspects of capitalism, socialism, communism and facism. The economics of the western nations including the Soviet Union are analyzed in terms of theoretical and operational approaches to the solutions of basic economic problems.

Prerequisite: Economics 102.

Three class hours each week.

Econ 250 QUANTITATIVE METHODS

Econ 270 COMMUNITY RESOURCES, 3 cr.

A method of providing teachers in all levels of education with the opportunity to discover, study, and adapt community resources to their classroom work. The workshop includes the production of teaching materials, based on workshop findings for the use of participants, and other teachers.

First Summer Session—4 weeks.

daily 9 A.M. to 4 P.M.

Econ 401 SPECIAL PROBLEMS IN ECONOMICS I, 1 cr.

Development of individual programs by students. Does not replace any course regularly given.

Econ 402 SPECIAL PROBLEMS IN ECONOMICS II, 2 cr.

Development of individual programs by students. Does not replace any course regularly given.

Econ 403 SPECIAL PROBLEMS IN ECONOMICS III, 3 cr.

Development of individual programs by students. Does not replace any course regularly given.

Econ 490 HONORS COURSE IN ECONOMICS I, 3 cr.

Directed reading and research in an area of interest chosen by the student in consultation with an instructor.

Prerequisite: Provisions of the Honors Program of the College.

Econ 491 HONORS COURSE IN ECONOMICS II, 3 cr.

Directed reading and research in an area of interest chosen by the student in consultation with an instructor.

Prerequisite: Provision of the Honors Program of the College and Econ 490.

Econ 492 HONORS COURSE IN ECONOMICS III, 3 cr.

Directed reading and research in an area of interest chosen by the student in consultation with an instructor.

Prerequisite: Provisions of the Honors Program of the College and Econ 491 & 492.

Econ 495 SEMINAR IN ECONOMICS, 3 cr.

Selected studies in the literature, philosophy, techniques, and research of economics.

Prerequisite: Permission of the Instructor.

HISTORY

Hist 101 HISTORY OF U.S. AND PENNSYLVANIA I, 3 cr.

A broad study of the political, economic, social and intellectual forces which shaped the American past to 1865. Pennsylvania history assumes a prominent place in this course.

Three class hours each week.

Hist 102 HISTORY OF U.S. AND PENNSYLVANIA II, 3 cr.

A broad study of the political, economic, social and intellectual forces which shaped the American past since 1865. Pennsylvania history assumes a prominent place in this course.

Three class hours each week.

✓ Hist 103 SURVEY OF U.S. AND PENNSYLVANIA HISTORY, 3 cr.

A course for secondary curriculum students who are not majoring in history or social studies; Industrial Arts students and Speech Correction students. This course will survey the major issues of United States growth and development from 1607 to the present. Problems in American, political, social and economic history will be discussed.

Three class hours each week.

* Hist 121 HISTORY OF EUROPE TO 1815, 3 cr.

The development of the social, economic, political, religious and cultural experiences of the European people. The decline of monarchical Europe and the major democratic movements in Europe.

Three class hours each week.

Hist 122 HISTORY OF EUROPE SINCE 1815, 3 cr.

The growth of European national states as reflected in their political, social and economic activities. An understanding of the casual and intergroup relationships are essential to the analysis and interpretation of the difficulties facing the European world today.

Three class hours each week.

Hist 142 HISTORY OF LATIN AMERICA, 3 cr.

The development of the Latin American countries from the period of discovery to the present. The colonial period, the revolutionary period, and the national period are surveyed. European and American relations with Latin America are emphasized.

Three class hours each week.

* Hist 143 HISTORY OF THE FAR EAST, 3 cr.

The interaction of East and West with emphasis on developments since 1800. The impact of modern technology, imperialism, nationalism and communism on Oriental culture is given special attention.

Three class hours each week.

Hist 144 HISTORY OF THE MIDDLE EAST, 3 cr.

The rise of the modern national state in the Middle East is the focal point of international concern since World War I. A review of the history of the peoples of the region in addition to a consideration of major political, economic and cultural factors which color international affairs in the Middle East is the basis for this work.

Three class hours each week.

- *Hist 150 HISTORY OF THE ANCIENT WORLD, 3 cr.
The origins of Western Civilization from pre-historic man to the disintegration of the Roman Empire, embracing a thorough study of the cultural aspects of the Fertile Crescent and Greco-Roman Civilizations.
Three class hours each week.
- Hist 201 HISTORY OF PENNSYLVANIA, 3 cr.
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 and their institutions and to the growth of Pennsylvania as a leader in our modern industrial world.
Three class hours each week.
- *Hist 202 CONTEMPORARY UNITED STATES HISTORY, 3 cr.
The policies and problems of United States in the twentieth century, with emphasis upon the Second World War and the post-war period.
Prerequisites: United States and Pennsylvania I and II.
Three class hours each week.
- *Hist 221 HISTORY OF CONTEMPORARY EUROPE, 3 cr.
The development of political, social, and economic forces since World War I and a history of the several attempts to resolve these problems.
Three class hours each week.
- Hist 223 HISTORY OF MEDIEVAL EUROPE, 3 cr.
The political, social, economic, and cultural history of the Middle Ages with emphasis on institutional and cultural life from the fall of Rome to the Renaissance.
Three class hours each week.
- Hist 224 RENAISSANCE AND REFORMATION, 3 cr.
Renaissance Culture in Europe from the 14th to the 16th century, with emphasis on Italy. It will include a treatment of late Medieval Civilization, the growth of Humanism, and the rise of the principle branches of Protestantism, and the reform movement within the Roman Catholic Church.
Three class hours each week.
- Hist 232 TWENTIETH CENTURY WORLD HISTORY, 3 cr.
Background and analysis of 20th Century events and emerging issues is brought out by a study of the growth of capitalism, imperialism, totalitarianism. World Wars I and II and recent efforts toward collective security and international understanding.
Three class hours each week.
- Hist 237 SOCIAL HISTORY OF THE UNITED STATES, 3 cr.
A study of the major groupings and ways of thought of the United States from colonial days to the present.
Three class hours each week.
- Hist 238 HISTORY OF AMERICAN LABOR, 3 cr.
This is a survey course covering the history of labor in America from colonial times to the present. Many topics are included in this study, from indentured and slave labor in colonial America to problems facing labor today with the coming of automation. Included also are such topics as the labor philosophy of the "Robber Barons", the great strikes, labor and the courts, and other related studies.
Three class hours each week.

Hist 239 DIPLOMATIC UNITED STATES HISTORY, 3 cr.

Special emphasis is placed on a study of our foreign relations from the beginning of our national history to the present. Included are separate topics such as the growth and influence of a policy of "isolation," the creation and development of the Monroe Doctrine, the changing position of the United States as a world power, and the problems incident to the assumption of the resulting responsibilities.

Three class hours each week.

*Hist 241 HISTORY OF ENGLAND, 3 cr.

The growth of the people and institutions of England from the conquest by the Anglo-Saxons to the present. The emphasis is placed on the development of those factors that gave rise to the struggle for the establishment of democratic principles in our modern world.

Three class hours each week.

Hist 245 HISTORY OF RUSSIA, 3 cr.

A study of the rise of the Russian state from the migrations of the Slavic tribes to the formation of the Soviet Union.

Three class hours each week.

Hist 250 AMERICAN CONSTITUTIONAL HISTORY, 3 cr.

The growth of the American Constitutional system, with special emphasis on constitutionalism, federalism, national-state relations, judicial review, economic regulations and civil liberties.

Three class hours each week.

Hist 401 SPECIAL PROBLEMS IN HISTORY I, 1 cr.

Development of individual programs by students. Does not replace any course regularly given.

Hist 402 SPECIAL PROBLEMS IN HISTORY II, 2 cr.

Development of individual programs by students. Does not replace any course regularly given.

Hist 403 SPECIAL PROBLEMS IN HISTORY III, 3 cr.

Development of individual programs by students. Does not replace any course regularly given.

Hist 491 HONORS COURSE IN HISTORY I, 3 cr.

Directed reading and research in an area of interest chosen by the student in consultation with an instructor.

Prerequisite: Provisions of the Honors Program of the College.

Hist 492 HONORS COURSE IN HISTORY II, 3 cr.

Directed reading and research in an area of interest chosen by the student in consultation with an instructor.

Prerequisite: Provisions of the Honors Program of the College and Hist 491.

Hist 493 HONORS COURSE IN HISTORY III, 3 cr.

Directed reading and research in an area of interest chosen by the student in consultation with an instructor.

Prerequisite: Provisions of the Honors Program of the College and Hist 491 & 492.

Hist 495 SEMINAR IN HISTORY, 3 cr.

Selected studies in the literature, philosophy, techniques, and research of history.

Prerequisite: Permission of the Instructor.

POLITICAL SCIENCE

* Pol Sci 101 INTRODUCTION TO POLITICAL SCIENCE, 3 cr.

A course designed for those beginning the study of political science. The general characteristics, concepts, and trends of the study of political science are stressed.

Three class hours each week.

J Pol Sci 102 AMERICAN GOVERNMENT, 3 cr.

The general principles of the American system of constitutional government; special emphasis is placed upon the organization and functions of the national government—legislative, executive and judicial; careful treatment is given to the rights and duties of citizenship, the electorate, political parties, civil rights and the growing regulatory function of government.

Three class hours each week.

Pol Sci 201 STATE AND LOCAL GOVERNMENT, 3 cr.

A treatment of the organization, powers, functions, and problems of state and local governmental units. Emphasis is placed on the growing complexity of relationship among the various levels of government as a result of technological developments and the growth of metropolitan areas.

Three class hours each week.

Pol Sci 202 INTERNATIONAL RELATIONS, 3 cr.

Background of international politics since the First World War, emphasizing successes and failures of the League of Nations, the rise of totalitarianism and World War II; the patterns of international affairs, the balance of power systems and various efforts at collective security.

Three class hours each week.

Pol Sci 203 INTERNATIONAL ORGANIZATION, 3 cr.

An analysis and evaluation of the United Nations and other international organizations and consideration of some of the theoretical concepts and practical problems involved.

Three class hours each week.

Pol Sci 211 POLITICAL PARTIES, 3 cr.

This course deals with the organization and operations of political parties in the United States. Careful attention is given to the methods used by parties in nominating candidates and conducting campaigns, and to the significance of pressure groups, public opinion, and the electorate in our political life.

Three class hours each week.

Pol Sci 213 DEVELOPMENT OF POLITICAL THOUGHT, 3 cr.

A study of the principle writings and theories of the major political philosophers from the time of the Greek City State to the eighteenth century.

Three class hours each week.

Pol Sci 215 COMPARATIVE GOVERNMENT, 3 cr.

Major attention is given to Great Britain and Soviet Russia as best representing, among foreign governments, the democratic and authoritarian systems. Brief consideration is given to the governments of France and Germany. Frequent comparisons and contrasts are drawn between these governments and governments in the United States.

Three class hours each week.

Pol Sci 220 INTRODUCTORY PUBLIC ADMINISTRATION, 3 cr.

An analysis of the history, and scope of public administration in United States; organizational theory and practice are emphasized; likewise, problems of centralization, decentralization, management, and political and legal controls.

Three class hours each week.

Pol Sci 250 CONSTITUTIONAL LAW, 3 cr.

A study of the major provisions of the American Constitution and the growth of American Constitutional Law based on analysis and discussion of leading judicial decisions.

Three class hours each week.

Pol Sci 260 INTEREST GROUPS AND PUBLIC OPINION, 3 cr.

Studies of the influence of individuals and groups on governmental policy decisions through formal and informal processes. Emphasis is placed on the formation, expression, measurement and role of public opinion; and the organization techniques, policies and membership of political interest groups.

Three class hours each week.

Pol Sci 270 POLITICS OF DEVELOPING AREAS, 3 cr.

A systematic study of the origin and rise of Anti-Colonialism. The course is a critical investigation of the most basic problems and the most important political and constitutional developments and governmental systems of new independent states; the struggle for influence among great powers and the increasing native demands for national self-determination in the remaining colonial countries.

Three class hours each week.

Pol Sci 401 SPECIAL PROBLEMS IN POLITICAL SCIENCE I, 1 cr.

Development of individual programs by students. Does not replace any course regularly given.

Pol Sci 402 SPECIAL PROBLEMS IN POLITICAL SCIENCE II, 2 cr.

Development of individual programs by students. Does not replace any course regularly given.

Pol Sci 403 SPECIAL PROBLEMS IN POLITICAL SCIENCE III, 3 cr.

Development of individual programs by students. Does not replace any course regularly given.

Pol Sci 490 HONORS COURSE IN POLITICAL SCIENCE I, 3 cr.

Directed reading and research in an area of interest chosen by the student in consultation with an instructor.

Prerequisite: Provisions of the Honors Program of the College.

Pol Sci 491 HONORS COURSE IN POLITICAL SCIENCE II, 3 cr.

Directed reading and research in an area of interest chosen by the student in consultation with an instructor.

Prerequisite: Provisions of the Honors Program of the College and Pol Sci 490.

Pol Sci 492 HONORS COURSE IN POLITICAL SCIENCE III, 3 cr.

Directed reading and research in an area of interest chosen by the student in consultation with an instructor.

Prerequisite: Provisions of the Honors Program of the College and Pol Sci 490 and 491.

Pol Sci 495 SEMINAR IN POLITICAL SCIENCE, 3 cr.

Selected studies in the literature, philosophy, techniques, and research of political science.

Prerequisite: Permission of the Instructor.

SOCIOLOGY

Soc 101 PRINCIPLES OF SOCIOLOGY, 3 cr.

This is a basic course in sociology dealing with the interaction arising from the association of human beings. Emphasis is placed upon natural and social heritage, the meaning and functions of culture, the origin, functions, and characteristics of social institutions; with inquiry into the nature and genesis of social pathology.

Three class hours each week.

Soc 103 ANTHROPOLOGY, 3 cr.

Antiquity of man; varieties of ancient and modern types; origin, development of preliterate culture, primitive social organization.

Three class hours each week.

Soc 200 RESEARCH METHODS, 3 cr.

This course makes a basic review of scientific procedure as such relates to the conduct of research. Procedures for data collection, analysis, etc. are also considered.

Prerequisite: Principles of Sociology.

Three class hours each week.

Soc 202 CONTEMPORARY SOCIAL PROBLEMS, 3 cr.

Selected contemporary social problems including crime, divorce, delinquency, etc., in their relation to our traditional social institutions. Current data and remedial proposals will be carefully examined and evaluated in the light of basic sociological principles.

Three class hours each week.

Soc 210 SOCIAL STRATIFICATION, 3 cr.

This course considers the general nature of social stratification and processes of social mobility. Some attention is given to the various forms of social stratification.

Prerequisite: Principles of Sociology.

Three class hours each week.

Soc 220 THE FAMILY, 3 cr.

This course deals with the development of the family and the home in its historical, economic and legal aspects. The various factors influencing the organization, disorganization, and reorganization of the family are considered, as well as the modern trends in this basic institution.

Three class hours each week.

Soc 230 COMMUNITY AND ECOLOGY, 3 cr.

Some attention is given to the nature of human communities as social units. Attention is also given to various ecological theories and metropolitan processes.

Prerequisite: Principles of Sociology.

Three class hours each week.

Soc 240 SOCIAL INSTITUTIONS, 3 cr.

This course discusses the nature of social institutions. Basic units such as the family, economic, political, religious, and educational orders are considered.

Prerequisite: Principles of Sociology.

Three class hours each week.

Soc 250 INTRODUCTION TO SOCIAL WORK, 3 cr.

This course introduces the student to the field of social welfare. The nature of the field and the various welfare services, etc. are considered.

Prerequisite: Principles of Sociology or Instructor's consent.

Three class hours each week.

Soc 260 CRIME, 3 cr.

A study of the historic background of our society's methods of dealing with the adult offender; also, a consideration of current techniques being used with him. Finally, a brief look at several types of offenses, including drug addiction, homicide, and organized crime.

Three class hours each week.

Soc 261 JUVENILE DELINQUENCY, 3 cr.

A consideration of the causes, prevention, and treatment techniques, past and present, which have been used in dealing with the juvenile delinquent.

Three class hours each week.

Soc 280 CHILD WELFARE, 3 cr.

The nature of child welfare services will be considered. Their scope and function will be considered.

Prerequisite: Principles of Sociology and Introduction to Social Work or Instructor's consent.

Three class hours each week.

Soc 300 WELFARE PRACTICUM, 3 cr.

This course provides the opportunity for on-the-job experiences in welfare organization. The nature of training is defined by academic and agency personnel.

Prerequisite: Two courses in social work or Instructor's consent.

Soc 401 SPECIAL PROBLEMS IN SOCIOLOGY I, 1 cr.

Development of individual programs by students. Does not replace any course regularly given.

Soc 402 SPECIAL PROBLEMS IN SOCIOLOGY II, 2 cr.
Development of individual programs by students. Does not replace any course regularly given.

Soc 403 SPECIAL PROBLEMS IN SOCIOLOGY III, 3 cr.
Development of individual programs by students. Does not replace any course regularly given.

Soc 491 HONORS COURSE IN SOCIOLOGY I, 3 cr.
Directed reading and research in an area of interest chosen by the student in consultation with an instructor.

Prerequisite: Provisions of the Honors Program of the College.

Soc 492 HONORS COURSE IN SOCIOLOGY II, 3 cr.
Directed reading and research in an area of interest chosen by the student in consultation with an instructor.

Prerequisite: Provisions of the Honors Program of the College and Soc 491.

Soc 493 HONORS COURSE IN SOCIOLOGY III, 3 cr.
Directed reading and research in an area of interest chosen by the student in consultation with an instructor.

Prerequisite: Provisions of the Honors Program of the College and Soc 491 & 492.

Soc 495 SEMINAR IN SOCIOLOGY, 3 cr.
This course provides an overview of the field as it may be defined by the instructor.

Prerequisite: Upper Division Status, Instructor's consent.
Two class hours each week.

SPEECH AND THEATRE DEPARTMENT

Dr. Carl L. Wilson, *Department Head*; Mr. Brammer, Mr. Coursey, Mr. Cowles, Mr. Emelson, Mr. Homer, Mr. Kirtley, Miss Langham, Mr. Miller, Dr. Robson.

Sp 098 HIGH SCHOOL FORENSIC WORKSHOP, 3 cr.
High school students recommended as acceptable in their school's forensic programs may register for one, two, or three two-week workshops in oral reading and oratory, extempore speaking, and discussion, and/or debating. Registration for the entire sequence and for the High School Theatre Workshop is recommended.

Prerequisite: Consent of Instructor.
Three Lecture-Discussion Hours each week.

Sp 099 HIGH SCHOOL THEATRE WORKSHOP, 3 cr.
Recommended high school students may register for one, two, or three two-week workshops in stage craft, acting, and/or directing. Registration for the entire sequence and for the High School Forensic Workshop is recommended.*

Prerequisite: Consent of Instructor.
Three Lecture-Discussion Hours each week.

Sp 100 VOICE AND DICTION, 3 cr.

Using the international phonetic alphabet to identify and habituate correct articulation of English sounds; developing a responsive voice free of defects. Group and individual drill as needed.

Prerequisite:

Three lecture hours each week.

 Sp 201 PUBLIC SPEAKING, 3 cr.

Designing, rehearsing, and delivering extempore speeches to facilitate solving group and public problems; reporting and evaluating other speakers' intent, content, format, and delivery.

Prerequisites: Sp 100 (Speech Majors Only), Eng 102, and Psy 101.

Three lecture hours each week.

Sp 210 TECHNICAL PLAY PRODUCTION, 3 cr.

Building, painting, rigging and shifting scenery; construction and use of properties; costuming and make-up; lighting and sound.

Prerequisites: Sophomore standing or Consent of Instructor.

Three lecture hours each week.

Sp 250 ORAL INTERPRETATION, 3 cr.

Techniques of discovering denotative and connotative meanings in literature; audible and visible interpretation.

Prerequisite: Sp 100 and Consent of Instructor or Sp 201.

Three lecture hours each week.

Sp 260 PLAY DIRECTING, 3 cr.

Script selection and analysis; casting; scene design; production, rehearsal, and performance techniques; historical styles; application to proscenium, open and arena stages. Students will direct one-act plays as individual projects.

Prerequisite: Sp 210 or Consent of Instructor.

Three lecture hours each week.

*This course does not grant credit toward graduation.

Sp 275 CREATIVE DRAMATICS, 3 cr.

Developing Children's impromptu dramatizations, including stories, poetry, pantomimes, rhythms, puppetry; observation of and practice in leading such activities; research projects.

Prerequisite: Sp 250.

Three lecture-discussion hours each week.

Sp 300 CHORAL SPEAKING, 3 cr.

Selecting, analyzing, and organizing literature for group interpretation; casting, directing, and staging choral reading and readers' theater productions.

Prerequisite: Sp 250 or Consent of Instructor.

Three lecture-discussion hours each week.

Sp 301 ARGUMENTATION AND DEBATE, 3 cr.

Logical advocacy: briefing and supporting *prima facie* cases advocating propositions of policy; negative positions; exposing fallacious evidence and reasoning; refutation and rebuttal.

Prerequisite: Sp 250 or Consent of Instructor.

Three lecture hours each week.

Sp 305 DISCUSSION, 3 cr.

Using a rational decision-making sequence to derive group approved solutions to group and public problems; chairmanship and leadership functions; private and public discussion formats.

Prerequisite: Sp 250 or Consent of Instructor.

Three lecture-discussion hours each week.

Sp 325 CHILDREN'S THEATRE, 3 cr.

Theatre as an art form and an educational experience for young audiences; selecting a play; acting; directing; technical production. Participation in cast and/or crews for campus productions.

Sp 331 ACTING, 3 cr.

The actor's interpretation of scripts, including characterization by external and internal techniques; study and practice of historical styles.

Prerequisite: Sp 250 or Consent of Instructor.

Three lecture-discussion hours each week.

Sp 350 LANGUAGE AND BEHAVIOR, 3 cr.

Developing language habits that improve sensory and symbolic perception, inference-making, evaluation, and adjustment to increasing knowledge.

Prerequisite: Junior standing or Consent of Instructor.

Three lecture-discussion hours each week.

Sp 360 PARLIAMENTARY PROCEDURE, 3 cr.

Continuation of 305: current parliamentary practices; training as a member, secretary, chairman, and parliamentarian in formal discussion of motions to resolve group and public controversies.

Prerequisite: Sp 305 or Consent of the Instructor.

Three lecture-discussion hours each week.

Sp 370 FORENSIC ACTIVITIES, 1 cr.

Intercollegiate and public debate, discussion, extempore speaking, oratory, or oral reading.

Open to all students.

Three class hours each week.

Sp 371 FORENSIC ACTIVITIES, 1 cr.

Intercollegiate and public debate, discussion, extempore speaking, oratory, or oral reading.

Prerequisite: Forensic Activities 370.

Three class hours each week.

Sp 372 FORENSIC ACTIVITIES, 1 cr.

Intercollegiate and public debate, discussion, extempore speaking, oratory, or oral reading.

Prerequisite: Forensic Activities 371.

Three class hours each week.

Sp 375 THEATRE ACTIVITIES, 1 cr.

General assignments in cast and/or crews for campus productions.

Open to all students with consent of instructor.

Three class hours each week.

Sp 376 THEATRE ACTIVITIES, 1 cr.

General assignments in cast and/or crews for campus productions.

Prerequisite: Theatre Activities 375 and Consent of Instructor.

Three class hours each week.

Sp 377 THEATRE ACTIVITIES, 1 cr.

General assignments in cast and/or crews for campus productions.

Prerequisite: Theatre Activities 376 and Consent of Instructor.

Three class hours each week.

Sp 380 FORENSIC WORKSHOP, 1 cr.

Intercollegiate and public debate, discussion, extempore speaking, oratory, or oral reading.

Open to Speech Majors only.

Three class hours each week.

Sp 381 FORENSIC WORKSHOP, 1 cr.

Intercollegiate and public debate, discussion, extempore speaking, oratory, or oral reading.

Open to Speech Majors only.

Three class hours each week.

Sp 382 FORENSIC WORKSHOP, 1 cr.

Intercollegiate and public debate, discussion, extempore speaking, oratory, or oral reading.

Open to Speech Majors only.

Three class hours each week.

Sp 385 THEATRE WORKSHOP, 1 cr.

Special assignments in cast and/or crews for campus productions.

Open to Speech Majors only.

Three class hours each week.

Sp 386 THEATRE WORKSHOP, 1 cr.

Special assignments in cast and/or crews for campus productions.

Open to Speech Majors only.

Three class hours each week.

Sp 387 THEATRE WORKSHOP, 1 cr.

Special assignments in cast and/or crews for campus productions.

Open to Speech Majors only.

Three class hours each week.

Sp 400 PERSUASION, 3 cr.

Analyzing individuals, audiences, occasions, and subjects for rational and rationalized appeals; logical and psychological arrangement, support, language, and delivery; the ethics of persuading and of being persuaded.

Prerequisite: Sp 301, 305, and 350 or Consents of Instructors.

Three class hours each week.

Sp 410 ADVANCED TECHNICAL PLAY PRODUCTION, 3 cr.

Set design, costuming, and lighting for the proscenium. Open, and Arena stages in contemporary and historical periods; individual assignments in campus production.

Prerequisite: Sp 210 or Consent of Instructor.

Three class hours each week.

Sp 415 ADVANCED ACTING, 3 cr.

Further development of the actor's art, with emphasis on thorough rehearsal and performances within an ensemble in a specific production.

Prerequisite: Sp 331.

Three class hours each week.

Sp 420 THEATRE AND ITS LITERATURE, 3 cr.

Development of the theatre and its literature: theatre architecture, playwriting, production, actors, and audiences: reading and discussion of plays and their social relationships from ancient Greeks to modern Theatre and the Absurd.

Prerequisite: Sp 210, 260 and 331 or Consent of Instructor.

Three class hours each week.

Sp 421 RADIO SPEAKING, 3 cr.

Principles of public speaking, discussion, debating, oral reading, acting, and directing adapted to the radio medium and audiences.

Prerequisite: Sp 260, 301 and 305 or Consent of Instructor.

Three class hours each week.

Sp 450 DRAMATIC CRITICISM, 3 cr.

Examination, according to dramatic theories, of the literary and technical values of selected productions from stage, screen and television, including campus productions.

Prerequisite: Sp 420 or Consent of Instructor.

Three class hours each week.

Sp 460 ADVANCED PUBLIC SPEAKING, 3 cr.

Developing a body of reliable evidence and reasoning about a public problem; adapting composition and delivery to varied audiences and occasions; emphasis on style in extempore and manuscript speeches.

Prerequisite: Sp 400 or Consent of Instructor.

Three class hours each week.

Sp 470 ADVANCED DISCUSSION, 3 cr.

Continuation of 305: analytic techniques in forming and improving groups; creativity and decision-making models.

Prerequisite: Sp 400 or Consent of Instructor.

Three class hours each week.

Sp 475 DIRECTING FORENSIC PROGRAMS, 3 cr.

Coaching oral reading and oratory, extempore speaking and discussion, and debating; establishing and maintaining forensic programs; organizing and managing forensic tournaments. Supervising laboratory practice with available high school and college students.

Prerequisite: Consent of Instructor.

Three class hours each week.

Sp 476 DIRECTING THEATRE PROGRAMS, 3 cr.

Establishing and operating theatre programs; analyzing, selecting, and casting scripts; planning and directing rehearsals and performances. Supervised laboratory practice in stage-craft, acting and directing with high school and college students available for College Players and other productions. A general course for teachers without course-work background; not open to majors in Speech and Theatre as a substitute for any required course.

Prerequisite: Consent of Instructor.

Three class hours each week.

Sp 490 HONORS COURSE IN SPEECH AND THEATRE I, 3 cr.

Individual research and reporting of topics not included in courses, planned as a three term project but subject to termination at the end of any term if the quality of either the research or the reporting is unsatisfactory.

Prerequisite: High Academic Standing & Approval of the Instructor, Head of Department and Dean of Instruction.

Three class hours each week.

Sp 491 HONORS COURSE IN SPEECH AND THEATRE II, 3 cr.

Individual research and reporting of topics not included in courses, planned as a three term project but subject to termination at the end of any term if the quality of either the research or the reporting is unsatisfactory.

Prerequisite: High Academic Standing & Approval of the Instructor, Head of Department and Dean of Instruction.

Three class hours each week.

Sp 492 HONORS COURSE IN SPEECH AND THEATRE III, 3 cr.

Individual research and reporting of topics not included in courses, planned as a three term project but subject to termination at the end of any term if the quality of either the research or the reporting is unsatisfactory.

Prerequisite: High Academic Standing & Approval of the Instructor, Head of Department and Dean of Instruction.

Three class hours each week.

Sp 495 SEMINAR IN SPEECH AND THEATRE, 1 cr.

Group research and reporting of topics not included in courses.

Prerequisite: Approval of the Instructor and of the Head of the Department.

One class hour each week.

SPECIAL EDUCATION

Dr. Henry, *Department Head*; Mr. Belch, Mr. Bitonti, Mr. Bowlen, Dr. Dickie, Mr. Dishong, Mrs. Hughes, Dr. Gross, Miss Kaleita, Mr. Nemeč, Mr. Yates, Dr. Quist.

MENTALLY RETARDED

Sp Ed MR 301 CURRICULUM PLANNING, MATERIAL AND EQUIPMENT, 3 cr.

Problems in the selection and placement of children in Special Education class programs. Type and cost of equipment needed. Meeting parents and community problems. Education of teachers, parents, school board and community of values in Special Education programs. Selecting Special Education class teachers and planning for improvement in service.

Three class hours each week.

Sp Ed MR 302 ARTS AND CRAFTS FOR SPECIAL EDUCATION CLASSES, 3 cr.

Devices, techniques, and methods for making interesting, useful, and attractive articles are considered for use with children in Special Education classes. Projects in simple handloom weaving, rake knitting, textile toys, basketry, and wood are emphasized.

Three class hours each week.

Sp Ed MR 306 EDUCATING THE TRAINABLE CHILD, 3 cr.

Organization of classes, teaching methods, behavior and progress records and reports, and home-school-community relations are studied.

Three class hours each week.

Sp Ed MR 400 SPECIAL CLASS METHODS-ELEMENTARY, 3 cr.

Major emphasis is given to basic procedures for planning and implementing an adequate educational program for mentally retarded children of different age and ability levels. The course provides a developmental approach with emphasis on specific techniques and methods for meeting the needs of these children.

Three class hours each week.

Sp Ed MR 401 SPECIAL CLASS METHODS-SECONDARY, 3 cr.

Appraisal of philosophies, curriculums and teaching methods is made in relation to learners enrolled in older youths classes. Analysis of academic programs with on-the-job and vocational programs is included; appropriate research, materials, equipment and resources are evaluated.

Three class hours each week.

Sp Ed MR 402 GUIDANCE WITH EMPHASIS ON INTERVIEWING AND PARENT EDUCATION, 3 cr.

It is important to help parents accept the handicap of their child whether it be mental retardation, physical impairment, a speech defect or any other condition. This course attempts to help parents recognize and adjust to the realities of their child's condition.

Three class hours each week.

Sp Ed MR 403 PSYCHOLOGY OF THE MENTALLY RETARDED, 3 cr.

Intensive review of research is made pertaining to etiology of mental retardation, of classification systems, and methods of diagnosis. Included are the study of brain injury, retardation, research on learning characteristics and evaluation of psychological tests. Criteria distinguishing mental retardation from other problems are examined.

Three class hours each week.

Sp Ed MR 410 DIAGNOSTIC TESTING AND REMEDIAL TEACHING, 3 cr.

Study of achievement tests useful for diagnostic purposes. Teaching procedures adjusted to particular needs or weaknesses. To include all school curriculum, elementary and secondary.

Three class hours each week.

Sp Ed MR 449 STUDENT TEACHING IN CLASSES FOR MENTALLY RETARDED CHILDREN, 6 cr.

Observation and participation in all teaching and activities related to the performance of a teacher's work in the class for mentally retarded children.

The student spends full time in actual classroom teaching for a trimester of sixteen weeks. Eight weeks are spent in a class for the mentally retarded and eight weeks are spent in a regular classroom.

SPEECH AND HEARING

Sp Ed SH 100 PHONETICS, 3 cr.

A study of the science of phonetics as it applies to the communicative process. Emphasis is placed on the articulation process in a communication system. The student is required to learn and use the International Phonetic Alphabet.

Three class hours each week.

Sp Ed SH 101 HEARING PROBLEMS, 3 cr.

The appreciation of the many problems of children and adults with hearing losses in order to acquaint the student with the improvement and adjustment of the child or adult to his hearing problem.

Three class hours each week.

Sp Ed SH 102 LANGUAGE AND SPEECH DEVELOPMENT, 3 cr.

A study of the normal development of speech and language, including the origins of speech, stages of speech and language development, and factors influencing the acquisition of speech and language.

Three class hours each week.

Sp Ed SH 103 ANATOMY AND PHYSIOLOGY OF THE EAR AND VOCAL MECHANISM, 3 cr.

A study of the anatomy and physiology of the hearing and speech mechanisms dealing with their functions and capabilities in their performance necessary for speech and hearing.

Three class hours each week.

Sp Ed SH 202 SURVEY OF SPEECH PATHOLOGY, 3 cr.

A foundation course in speech pathology, considering incidence, etiology, and symptomatology of speech disorders, and stressing the physical, psychological, and social conditions related to these speech problems.

Three class hours each week.

Sp Ed SH 204 PRACTICE IN MEASUREMENT OF HEARING, 2 cr.

Familiarization with the basic equipment and procedures used in the assessment of hearing. Opportunity for practice in the use of this equipment is provided.

Three class hours per week, plus laboratory.

Sp Ed SH 206 AUDITORY TRAINING AND SPEECH READING, 3 cr.

Students study the different systems of teaching Speech Reading. Lessons in Auditory Training and Speech Reading are planned and presented for all age groups manifesting different levels of hearing impairment.

Three class hours each week.

Sp Ed SH 208 PSYCHOLOGY OF SPEECH AND HEARING, 3 cr.

Familiarization with the psychological factors involved in speech and hearing. Special emphasis is given to the perception of speech, frequency of occurrence of symbols, and the role of learning.

Three class hours each week.

Sp Ed SH 270 STUTTERING, 3 cr.

(not currently offered)

Sp Ed SH 308 CLINICAL PRACTICE IN AUDITORY TRAINING AND SPEECH
READING, 3 cr.
(not currently offered)

Sp Ed SH 302 INTRODUCTION TO CLINICAL PROCEDURES, 3 cr.
A review of speech disorders, testing, remedial principles. Opportunity for the accumulation of materials for therapy, and for observation of clinical practicum is provided.
Three class hours each week.

Sp Ed SH 304 ADMINISTRATION OF PUBLIC SCHOOL PROGRAMS, 3 cr.
Acquaintance of students with survey techniques, scheduling, travel, records, interviews, materials, and personnel involved in the administration of a public school program in speech and hearing.
Three class hours each week.

Sp Ed SH 306 CLINICAL METHODS AND TECHNIQUES, 3 cr.
A study of the application of various therapeutic methods and techniques, with some emphasis on diagnostic tools used by the speech clinicians.
Three class hours each week.

Sp Ed SH 308 ADVANCED CLINICAL PRACTICUM, 3 cr.
Clinical practicum. Each student is responsible for his own cases, including diagnosis, therapy, records, counseling, etc., with planned supervision. Clinical practice is accomplished in the College Speech Clinic, Noss Laboratory School, and Outpatient clinic for children and adults.
Laboratory hours as assigned each week.

Sp Ed SH 400 STUDENT TEACHING, 12 cr.
Observation and participation in a public school speech and hearing therapy program. The student spends one full trimester of sixteen weeks under supervision of a certificated public school clinician, with periodic visits by the college supervisor.

Sp Ed SH 402 PROFESSIONAL PRACTICUM AND SCHOOL LAW, 2 cr.
General techniques of teaching, and techniques for the student's area of specialization. Pennsylvania school laws relevant to the work of the public school clinician. Discussion of problems encountered by the clinicians during student teaching.
Two class hours each week.

Sp Ed SH 404 HONORS COURSE IN SPEECH AND HEARING I, 1-3 cr.

Sp Ed SH 406 HONORS COURSE IN SPEECH AND HEARING II, 1-3 cr.

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Associate Professor of Mathematics	
Ella E. Bernstorf, A.B., A.M.	1930-1945
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Professor of Education	
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Associate Professor of English	
Cora Coover, B.Litt.	1929-1933; 1952-1966
Instructor of English	
Shriver L. Coover, B.S., M.A., Ed.D.	1930-1966
Professor of Industrial Arts Education	
Mary R. DeCarlo, B.S., M.Ed., Ed.D.	1954-1968
Professor of Education	
Thomas M. Gilland, A.B., M.A., Ph.D.	1931-1956
Director of Noss Laboratory School Director of Student Teaching	
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Associate Professor of Geography	
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Associate Professor of Mathematics
B.S., Waynesburg College; M.A., West Virginia University
- William Hepner (1956)
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B.S., California State College; M.A., West Virginia University
- Francis J. Herron (1960)
Associate Professor of Education
B.S., California State College; M.Ed., University of Pittsburgh
- Robert V. Herron (1965)
B.S., University of Pittsburgh; M.A., Duquesne University
- Eugene Hester (1946)
B.S., West Virginia University; M.S., West Virginia University
- Eleanore C. Hibbs (1966)
Associate Professor of English
B.S., California State College; M.A., University of Pittsburgh
- Merrell Holman (1947)
Associate Professor of Education
B.S., California State College; M.Ed., University of Pittsburgh
- Billie Hubrig (1967)
Associate Professor of Education
B.S., University of Pittsburgh; M.Ed., University of Pittsburgh; Ph.D., University of Pittsburgh
- Paul E. Huffington (1966)
Associate Professor of Education
B.A., University of Maryland; M.A., University of Maryland
- Robert A. Kaiser (1965)
Associate Professor of Education
B.A., Allegheny College; M.Ed., University of Pittsburgh

- Annette M. Kaleita (1965)
Associate Professor of Education
B.S., California State College; M.Ed., Duquesne University; M.A.,
Northwestern University
- William Kania (1961)
Associate Professor of Social Studies
B.S., West Virginia University; M.B.A., University of Pittsburgh
- John H. Katusa (1966)
Associate Professor of Education
B.S., Mississippi State College; M.A., West Virginia University
- Isabella King (1956)
Associate Professor of Education
B.A., Otterbein College; M.Ed., Pennsylvania State University
- Robert C. Kirtley (1966)
Associate Professor of Speech
B.F.A., Drake University; M.A., University of Southern California
- Kade Kos (1961)
Associate Professor, Education Librarian
B.S., Clarion State College; M.S.L.S., Syracuse University
- Norma Langham (1959)
Associate Professor of Speech
B.S., Ohio State University; M.A., Stanford University; B.T.A., College
of Theatre Arts
- John R. Lawrence (1966)
Associate Professor of English
B.A., University of Iowa; M.F.A., University of Iowa
- Anthony Lazzaro (1966)
Associate Professor of Physics
B.S., California State College; M.Ed., University of North Carolina
- Joseph Lechnar (1961)
Associate Professor of Social Studies
B.A., St. Vincent College; M.A., Notre Dame University
- Karl F. Limbacher (1961)
Associate Professor of English
B.Ed., Albany State Teachers College; M.S., Albany State Teachers
College
- Robert W. Little (1965)
Associate Professor of Biology
B.S., University of Pittsburgh; M.S., University of Pittsburgh
- Virginia Luckhardt (1949)
Associate Professor
B.A., University of Pittsburgh; M.A., University of Pittsburgh; M.L.S.,
Carnegie Institute of Technology
- John McCrory (1958)
Associate Professor of Industrial Arts
B.S., California State College; M.Ed., University of Pittsburgh

- Scott McDonald (1963)
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- James McIntyre (1964)
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 University of Havana
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 Instructor of Health and Physical Education
 A.B., William Jewell; M.A., Washington University
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 B.A., West Liberty State College; M.S., West Virginia University
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