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1980-1981 CATALOG

Longwood

FARMVILLE, VIRGINIA

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At the time of publication this catalog accurately depicts academic policies of Longwood College, including course numbers, descriptions, and standards for student progress and retention. However, the provisions of this publication are not to be regarded as an irrevocable contract between the student and Longwood College. Each step in the educational process, from admission through graduation, requires continual review and appropriate approval by college officials. There are established procedures for making changes, procedures which protect the institution's integrity and the individual student's interest and welfare. Longwood College reserves the right to conduct such reviews and make such changes where deemed appropriate. A curriculum or graduation requirement when altered is not made retroactive unless the alteration is to the student's advantage and can be accommodated within the span of years normally required for graduation.

Longwood College Undergraduate Bulletin, August 1980. Announcements 1980-81. Accredited by Southern Association of Colleges and Schools, National Council for Accreditation of Teacher Education, Virginia State Board of Education; undergraduate Social Work Program accredited by the Council on Social Work Education. Undergraduate enrollment approximately 2,300.

ACADEMIC CALENDAR

SUMMER SESSION – 1980

June 2	Monday – First Undergraduate term begins.
June 16	Monday – First Graduate term begins.
July 4	Friday – First Undergraduate term ends.
July 7	Monday – Second Undergraduate term begins.
July 15	Tuesday – First Graduate term ends.
July 16	Wednesday – Second Graduate term begins.
August 8	Friday – Second Undergraduate term ends.
August 15	Friday – Second Graduate term ends.

FIRST SEMESTER – 1980

August 22	Friday – Opening date.
August 25	Monday – Professional Semester begins.
August 26	Tuesday – Registration.
August 27	Wednesday – Classes begin at 8 a.m.
September 5	Friday – Last day to add a class.
September 26	Friday – Last day to drop a class without an automatic “F”.
October 3	Friday – Fall Break begins after classes.
October 13	Monday – Classes resume at 8 a.m.
October 20	Monday – Estimates due in Registrar’s Office at 12 noon. Incompletes from previous semester must be removed by 12 noon.
October 24-25	Friday, Saturday – Oktoberfest.
November 26	Wednesday – Thanksgiving Holiday begins at 12 noon.
December 1	Monday – Classes resume at 8 a.m.
December 11	Thursday – Classes end.
December 12	Friday – Reading Day.
December 15	Monday – Examinations begin.
December 19	Friday – Professional Semester ends.
December 20	Saturday – Examinations end.

SECOND SEMESTER – 1981

January 12	Monday – Professional Semester begins. Registration for seniors and juniors.
January 13	Tuesday – Registration for sophomores and freshmen.
January 14	Wednesday – Classes begin at 8 a.m.
January 23	Friday – Last day to add a class.
February 13	Friday – Last day to drop a class without an automatic “F”.
March 2	Monday – Estimates due in Registrar’s Office at 12 noon. Incompletes from previous semester must be removed by 12 noon.
March 20	Friday – Spring Break begins after classes.
April 1	Wednesday – Classes resume at 8 a.m.
April 11	Saturday – Spring Weekend
April 25	Saturday – Founders Day.
April 30	Thursday – Classes end.
May 1	Friday – Reading Day.
May 4	Monday – Examinations begin.
May 8	Friday – Professional Semester ends.
May 9	Saturday – Examinations end.
May 16	Saturday – Graduation.



LONGWOOD COLLEGE AND ITS STUDENTS

Longwood College is a small, coeducational institution of approximately 2,500 students, located in Farmville, Virginia. Students attending Longwood choose a major from a variety of 26 separate academic areas; for those who wish to do so, a course of study in a minor discipline may also be pursued.

The primary educational objective of Longwood College is to provide a baccalaureate curriculum distinguished by academic excellence. Particular attention is given to teacher preparation; pursuant to the goal of academic excellence, every effort is made to combine a strong liberal arts approach with this professional emphasis. The College also offers liberal arts majors, as well as business administration, pre-professional medical curricula, and therapeutic recreation. Details of various departmental offerings may be found in the catalog section on Departments of Instruction.

Six undergraduate degrees are offered: Bachelor of Arts, Bachelor of Fine Arts, Bachelor of Science, Bachelor of Science in Business Administration, Bachelor of Science in Business Education, and Bachelor of Music Education. In addition, Longwood College provides a graduate program leading to the Master's degree in English and Education. Details of the Graduate Program are found in the *Graduate Bulletin*.

Longwood College is pledged to a policy of non-discrimination because of race or religion. The policy of non-discrimination applies to all phases of college life including admissions.

Accreditation

The College is fully accredited as a professional school for the undergraduate training of teachers and as a comprehensive college. It is accredited by the Southern Association of Colleges and Schools, the National Council for Accreditation of Teacher Education, and the Virginia State Board of Education. It is on the list of colleges ap-

proved by the American Association of University Women. Its pre-medical curriculum is approved by the Council on Medical Education and Hospitals of the American Medical Association. Its pre-professional curricula in nursing, medical technology, pharmacy, dental hygiene and physical therapy prepare students for admission to accredited schools. Its social work program is accredited by the Council on Social Work Education.

The College is a member of the American Assembly of Collegiate Schools of Business; the Association of American Colleges; American Association of Colleges for Teacher Education; Association of Virginia Colleges; National Association for Business Teacher Education; American Association of College Registrars and Admissions Officers, American Library Association; and the Virginia Museum of Fine Arts.

The College Year

The college year consists of a regular session, including two semesters of 15 weeks each, and a summer session. The summer session for undergraduate students consists of two five-week terms; that for graduates is divided into two four and one-half week terms. The summer session makes it possible for an undergraduate student to complete a degree program in three calendar years as compared with the traditional four academic years generally required to complete such a program. Both undergraduate and graduate classes during the summer are scheduled for five days a week.

Commencement

Commencement exercises are held once a year, in the spring. Those students completing a degree program between commencements will be given, on request, a letter certifying that they have fulfilled all requirements for graduation. They will receive diplomas at the next spring commencement.

Graduating seniors must buy or rent from the college book store the caps, gowns, and hoods required for commencement exercises.

History

Longwood College, a pioneer first in private and later in public education, is one of the oldest colleges in the United States. The College was founded on March 5, 1839, this being the date that the Farmville Female Seminary Association was incorporated by the General Assembly of Virginia.

In the succeeding years the increasing prosperity of the Farmville Female Seminary led the stockholders to expand the seminary into a college, and the Farmville Female College was incorporated in 1860. On April 7, 1884, the State of Virginia acquired the property of the Farmville Female College, and in October of the same year the Normal School opened with 110 students enrolled. This was the first State institution of higher learning for women in Virginia.

With the passage of the years, the Normal School expanded its curricula and ran through a succession of names. It became the State Normal School for Women in 1914, the State Teachers College at Farmville in 1924, and Longwood College in 1949.

The College was first authorized to offer four-year curricula leading to the degree of bachelor of science in education in 1916. It was authorized to offer the degree of bachelor of arts in 1935, the degree of bachelor of science in 1938, curricula in business education the same year, courses leading to a degree in music education in 1949, and the degree of bachelor of science in business administration in 1976. In 1954, graduate programs were authorized. On September 10, 1975, Longwood College announced that it would become fully coeducational as of June 1976, and offer men the opportunity for on-campus housing.

Location

The College is located in Farmville, Virginia — sixty-five miles west of Richmond and Petersburg, forty-eight miles east of Lynchburg and sixty miles south of Charlottesville. U.S. Highways 15 and 460 intersect in town. Commercial bus systems provide service to the town.

Farmville is a pleasant college town with a population of 6,000; it is the business and education center of the area. Located in and near town are churches, hotels, motels, a country club, a municipal airport, and a community hospital. Hampden-Sydney College, a liberal arts college for men, is five miles south of the campus. Many points of interest are within a short distance of Farmville, including Appomattox Courthouse and Saylor's Creek Battlefield.

College Library and Resources

Lancaster Library was constructed in 1938 and received extensive enlargement and renovation in 1961. The library is immediately west of Grainger Hall. Completely air-conditioned, its three floors include individual study carrels, group study and discussion rooms, seminar rooms, a typing room, faculty carrels, and a separate reading room for the use of the collection of books, periodicals and newspapers of 5,381 units of microforms. The main book collection, approximately 179,313 volumes, is available on open shelves to all users with reading and informal lounge areas interspersed among the book areas on three floors. Other collections in the library include a file of 6,166 pamphlets, a picture file of 7,316 items and more than 2,027 maps. Twenty-eight newspapers and some 1,278 current magazines are received. In the non-print area, the library has 1,272 records, 8,731 slides, 2,035 cassettes, 1,682 filmstrips, and 134 film-loops. Also in the library is a collection of college publications, college catalogs, alumni bulletins, and other archival materials.

A library orientation program is given to all freshmen by members of the English Department in cooperation with the library staff. By means of this program, students are introduced to the library building and its functional divisions, to the various book collections, and to general and special reference

tools. They are shown how to borrow library materials, how to use the Faculty Reserve Collection, and how to locate subject materials or specific books. This program is supplemented by individual instruction throughout each student's four years of college.

During regular sessions, the library is open at scheduled periods totaling 78.25 hours each week. The time schedule is posted at the main entrance to the library. It is the aim of the library to maintain maximum use of its materials by students, faculty, alumni, and friends of the College.

Academic Advising

New students are assigned an academic adviser by the advising coordinator of the department in which they plan to major. Advising for those who are undecided as to major is directed by Dr. James Gussett, Assistant Dean of the College. Periodic discussions of the curriculum between adviser and student enables the student to achieve maximum awareness of the academic opportunities available at the College.

Students must consult with their academic adviser prior to each registration to ensure the proper fulfillment of all graduation requirements.

Office of Career Planning and Placement

Planning careers during the college years and securing employment after college is an integral part of the collegiate experience. To assist students in this important task, the College maintains an Office of Career Planning and Placement.

Using the services offered, students may obtain information regarding career options available to majors in various academic and professional programs. Through career information services, the preparation required for given careers and the future availability of employment may be obtained. It is important that students establish contact with the office early in their college career, preferably during the freshman year. Students may also consult with chairpersons of academic departments, academic advisers and faculty regarding career options. Such services as career counseling, vocational interest inventory testing and evaluation are available through the office of the Vice President for Student Affairs.

The Office of Career Planning and Placement serves as a liaison for alumni, students and prospective employers such as school systems, business, industry, government, and the military. Representatives from these segments of the world of work visit the campus for the purpose of interviewing prospective employees.

The office assists students in job search strategies by conducting workshops, seminars on interviewing techniques and resume writing, and by sponsoring speakers on various topics.

Each graduate is encouraged to maintain a credentials folder which may be mailed to prospective employers upon request. Credentials are on file for ten years after date of graduation.

The Office of Career Planning and Placement is located on the 2nd floor of South Ruffner Hall.

Only Equal Opportunity Employers are permitted to recruit on campus.

PROGRAMS OF STUDY

Longwood College awards the Bachelor of Arts, the Bachelor of Fine Arts, the Bachelor of Science, the Bachelor of Science in Business Administration, the Bachelor of Science in Business Education, or the Bachelor of Music Education to successful undergraduate students. *A minimum of 126 semester hours is required for graduation in each of the programs; students in programs which require field experience must complete 128 hours for graduation.*

The Degree of Bachelor of Arts

This degree is available to students completing a major program in art education, biology, chemistry, drama, earth science, English, French, government, history, mathematics, music, physics, social science, social work, sociology, Spanish or speech pathology.

There are no additional requirements beyond those in general education and, for students seeking certification, those in teacher education except as prescribed by the department in which the major program is taken.

The requirements for a major program vary according to the department being considered. They may be found in the section of the catalog entitled *Departments of Instruction*.

The Degree of Bachelor of Fine Arts

The Bachelor of Fine Arts degree is awarded to those students completing a major program in studio art or art history. The general education requirements are the same as those for the Bachelor of Arts degree.

The requirements for a major program vary according to the concentration chosen. They may be found in the section of the catalog entitled *Departments of Instruction*.

The Degree of Bachelor of Science

The Bachelor of Science degree is available to students who complete a major program in art education, biology, chemistry, drama, earth science, elementary education, government, history, home economics, mathematics, office administration, physical education, psychology, physics, social science, social work, sociology, speech pathology, or therapeutic recreation.

There are no additional requirements beyond those in general education and, for students seeking certification, those in teacher education except as prescribed by the department in which the major program is taken.

The requirements for a major program vary according to the department being considered. They may be found in the section of the catalog entitled *Departments of Instruction*.

The Degree of Bachelor of Science in Business Education

This degree is awarded to students completing a major program in business education. The general education and teacher education requirements are the same as those for the Bachelor of Science degree.

The Degree of Bachelor of Music Education

The Bachelor of Music Education degree is awarded to students completing a major program in music education. The general education and teacher education requirements are the same as those for the Bachelor of Science degree.

The Degree of Bachelor of Science in Business Administration

This degree is awarded to students completing a major program in business

administration. The general education and teacher education requirements are the same as those for the Bachelor of Science degree.

Majors

In order to earn a degree from Longwood College, each student must pursue and complete a concentrated course of study in a major area. These requirements must be met in addition to the completion of the general education requirements. At the undergraduate level, Longwood offers majors in 26 separate fields of study. Detailed requirements for each major program are listed with the appropriate department. The programs of major study, with the degree options for each, are as follows:

<i>Major Art</i>	<i>Degree Options</i>
Biology	B.F.A., B.S., B.A.
Business Administration	B.S.B.A.
Business Education	B.S.B.E.
Chemistry	B.S., B.A.
Dramatic Arts	B.S., B.A.
Earth Science	B.S., B.A.
Elementary Education	B.S.
English	B.A.
French	B.A.
Government	B.S., B.A.
Health & Physical Education	B.S.
History	B.S., B.A.
Home Economics	B.S.
Mathematics	B.S., B.A.
Music	B.A., B.M.E.
Office Administration	B.S.
Physics	B.S., B.A.
Pre-Medical Technology	B.S.
Psychology	B.S.
Social Science	B.S., B.A.
Social Work	B.S., B.A.
Sociology	B.S., B.A.
Spanish	B.A.
Speech Pathology	B.S., B.A.
Therapeutic Recreation	B.S.

Minors

Students may choose to use their elective hours by pursuing a minor program in a field not directly related to their major area of study. Minor programs consist of 18-24 hours of concentrated study, and are as follows:

Anthropology
Art History
Biology

Business Administration
Chemistry
Clothing & Textiles
Communications
Computer Science
Dance
Dramatic Arts
Earth Science
English
Foods & Nutrition
General Art
Geography
Government
History
Journalism
Library Science
Mathematics
Music
Philosophy
Physics
Psychology
Sociology
Speech

Cooperative Program in Speech Pathology and Audiology

A Cooperative Program between Longwood College and the University of Virginia has been established to serve an increasing demand for teachers and clinical workers with special training in speech pathology and audiology. The program consists of three years at Longwood and one pre-professional years in speech pathology and audiology at the University. The degree from Longwood College is either a Bachelor of Science or a Bachelor of Arts degree. Transfer to the University of Virginia is possible at the end of two years if students have a cumulative average of 3.0. In such a case, the degree is granted by the University of Virginia. Students in the cooperative program attending the University of Virginia will pay the fees of the University.

The programs for the Master's degree in Speech Pathology and Audiology at the University of Virginia are designed to satisfy academic requirements of the American Speech and Hearing Association for the certificate of clinical competence in Speech Pathology or Audiology.

Students interested in the program should consult with the chairman of the Department of Speech and Dramatic Arts, Longwood College; or the chairman of the Department of Speech Pathology and Audiology, University of Virginia.

Pre-Professional Preparation for The Medical Sciences

This curriculum prepares students for admission to accredited schools of dental hygiene, dentistry, medicine, medical technology, nursing, pharmacy, and physical therapy. Since special requirements of professional schools vary considerably, students should communicate with the professional school they plan to attend prior to registration at Longwood College.

Longwood College offers several programs in cooperation with medical schools in Virginia. Pre-nursing programs at Longwood fulfill the requirements for the first two years in the degree programs at the Medical College of Virginia and the University of Virginia. Exceptional students may apply for transfer to the University of Virginia after one year, with the appropriate course background. The three-year pre-medical technology program fulfills the baccalaureate requirements in this field and the fourth year of professional training may be taken at the medical schools. If the fourth year in medical technology is completed at the University of Virginia, Fairfax Hospital, Memorial Hospital of Danville, or Roanoke Memorial Hospital, the student is entitled to a B.S. degree from Longwood College. When the fourth year in medical technology is taken at the Medical College of Virginia, a B.S. degree in Medical Technology is awarded by that institution.

Completion of the requirements of the Longwood pre-professional curriculum does not automatically guarantee admission to the professional program. Admission to the professional programs is competitive, based on the student's academic performance during the pre-professional period, personal recommendations, and related experience.

Graduate Program

Longwood College offers a Graduate Program leading to the degree of Master of Science in Education, and a Master of Arts in English. In Education, areas of specialization include supervision, early childhood education, guidance and counseling, and reading. The Graduate Program is designed to provide capable students opportunities for individual inquiry and to prepare qualified school personnel for assuming leadership roles in education.

Undergraduate credit can be earned by seniors, and in some cases by juniors, by enrolling in a 500-level course. The specific requirements for an undergraduate enrolling in a 500-level course for undergraduate credit are listed with the course description.

A senior at Longwood College may take up to six hours of graduate credit beyond the undergraduate degree requirements. Such credit may be earned only in 500-level courses and if it meets course requirements for the degree may be counted toward a master's degree. A student must have a "B" average in major courses, be recommended by the chairman of the major department and receive approval in advance by the Graduate Council.

No graduate credit is given unless a formal application has been approved by the Graduate Council prior to the completion of the course.

All graduate students, except those in the English program, are required to complete a core program of nine semester hours in education and educational psychology. This core program meets the Virginia State Certification requirements and makes it possible for a teacher with two or more years of experience and holding the Collegiate Certificate to raise that certificate to the level of Collegiate Professional Certificate. Holders of the Collegiate Professional Certificate will be eligible for the Postgraduate Professional Certificate upon completion of their master's program.

A student who holds a baccalaureate degree from an accredited institution may apply for admission to graduate study. Applications for graduate study are reviewed by the Graduate Council in January, May and August. The Director of the Graduate Program will notify the applicants, in writing, of the Graduate Council's action. An applicant may request a review of his records at other times by writing the Director of the Graduate Program.

The Teacher Education Program

Initial Interest. A student may, at the time of admission to college, declare an intent to enter a curriculum leading to teacher education. In addition to the prescribed prerequisites for admission, special consideration to health, scholarship, character, and teaching potentialities is made of the applicant. The Director of Student Teaching serves as

a consultant to the Committee on Admissions on all applications of students declaring an intent to pursue a teacher education program. Applicants who possess physical defects or histories of emotional disorders are required to submit to a personal interview at which time a committee passes on each case prior to admission to college. This committee is composed of the Director of Admissions and the Director of Student Teaching.

Final Approval. Admission to the College does not constitute admission to the program of teacher education. Final admission to the teacher education program is given normally during the fifth semester of the student's program or to students who have earned at least sixty semester hours credit. The Committee on Teacher Education serves as the screening committee for admission.

The Committee on Teacher Education consists of six members: The Chairman of the Department of Education, The Director of Student Teaching, and the Chairman of the department and departmental consultant in which the student is majoring. The Director of Student Teaching serves as Chairman.

Applications for approval in a teacher education program may be filed after a student has completed at least sixty semester hours credit. The student files an "Application for Acceptance in Teacher Education and Student Teaching", prior to October 15 of the junior year. Included in the application form is a formal recommendation signed by the departmental chairman of the student's major.

The Committee on Teacher Education employs the following criteria and procedures in its screening program for final admission:

1. The student must be a senior and shall have completed 90 semester hours of work.
2. The student must present evidence of the satisfactory completion of a broad background in general education.
3. The student must demonstrate adequate preparation in professional courses with a minimum grade of "C" on each course or a "C" average. For secondary majors this shall include *Developmental Psychology I and II, Developmental Teaching of Reading, Diagnostic Teaching of Reading and Principles of Kindergarten and/or Elementary Education.*

4. The student shall have demonstrated effective command of communicative skills.
5. The departmental chairman of the major field shall recommend that the student be allowed to pursue a teacher education curriculum.
6. The student may, at the discretion of the committee, be required to submit evidence or pass such tests regarding academic proficiency as may be deemed necessary.

Student Appeal. A student denied admission to the teacher education program may submit an appeal to an appeal board consisting of the Dean of the College, the Director of Student Teaching, the Chairman of the Education Department, and the departmental chairman of the student's major.

Certification Requirements. In order to satisfy certification requirements of the Virginia State Board of Education, the student must complete the appropriate student teaching program described below:

1. The elementary major seeking endorsement in Nursery, Kindergarten and Grades 1, 2, and 3 is required to engage in student teaching for a ten-week period during either the Fall or Spring Semester of the senior year. Five weeks will be devoted to kindergarten experiences and five weeks will be spent in either Grades 1, 2, or 3.
2. The elementary major seeking endorsement in Grades 4, 5, 6, and 7 and the secondary major seeking endorsement in a subject area at the high school level are required to engage in student teaching for a ten-week period during either the Fall or Spring Semester of the senior year.

All prospective teachers seeking initial certification on or after July 1, 1980, will be required to take the National Teacher Examination (NTE). An applicant for a certificate must present test scores in the "Commons" and at least one subject endorsement area examination. Scores from the NTE must be reported to Longwood College and the Virginia Department of Education. These scores must be on file with the Chairman of the Department of Education, Longwood College, before a recommendation for certification can be sent to the Virginia Certification Division of the State Department of Education.

Longwood College does not recommend a student for certification as a teacher if the grade in student teaching is below "C". Students are reminded that an official designated by the President of the College is required to state in the case of the person taking the State Approved Teacher Preparatory Program that the applicant is "qualified by character and temperament for the teaching profession."

Military Science

In cooperation with the University of Richmond, Longwood College offers a program of study in military science which makes available to students successfully completing the program a career in the U.S. Army, the U.S. Army Reserve or the National Guard. The four-year program of study in ROTC is taken concurrently with the student's regular academic work in general education and major requirements. Credits earned in the program count in the total hours necessary for graduation. Graduates are commissioned Second Lieutenants in the U.S. Army Reserve, with an opportunity for regular Army careers for highly qualified students who apply and are accepted.

Hampden-Sydney Courses

The variety of courses available to Longwood students has been increased by a cooperative arrangement with Hampden-Sydney College. Under the terms of the arrangement, full-time students at either institution may enroll for courses at the other institution without added expense. Students desiring to take advantage of this program must secure approval from their major adviser.

Release of College Transcripts

In order for the transcript of a student's academic record to be released to a third party, the Registrar's Office must receive a request *in writing* from the student himself [see (d) of "Longwood College Policy on Student Records"].

Longwood College Policy on Student Records

Longwood College student record policies are in full compliance with the Family Educational Rights and Privacy Act of 1974 (Public Law 93-380, Sec-

tion 438) and the Virginia Privacy Protection Act of 1976 (Senate Bill 335). The accumulation, processing, and maintenance by the College of student data is limited to that information, including grades, which is necessary and relevant to the purposes of the institution. The personal data of students will be used only for the purpose for which it is collected. Procedures for the internal operation of the various offices at the College are established by each office staff so as to conform to the stated College policy.

Student data, whenever possible, shall be collected directly from the student; every effort will be made to ensure its accuracy and security. It shall be the express responsibility of the student to notify the Dean of Students' Office of any change of student status. Any student or applicant for admission who initially or subsequently refuses to supply accurate and complete personal information as is legally allowed may be denied admission or readmission or may jeopardize current student status. Falsification of records with the intent to give untrue information is a violation of the Longwood College Honor Code.

The College shall provide for the confidentiality and security of official student data and, therefore, will not release student information except:

- (a) Public information as listed in directories and listings of student data which may include the student's name, address, telephone number, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, the most recent previous educational agency or field address, dates of field experience, and other similar information. A student may inform the College in writing that any or all public information may not be released without prior consent. The College reserves the right to indicate to potential inquirers whether or not a student is currently enrolled and/or the date of attendance. In the case of telephone requests for information, the College will identify the names of current students or graduates and release the dates of attendance and the major field of study.
- (b) To the students themselves.
- (c) To parents or a financial insti-

tution as defined in Section 152 of the Internal Revenue Code of 1970.

(d) To a third party agency as expressly designated in writing by the student.

(e) To other agencies as required by court subpoena.

(f) In a situation of emergency in which the knowledge of confidential student information is necessary to protect the immediate health or safety of a student or other persons.

Student access to all personal records shall be permitted within 45 days of a written request, during normal office hours. All records shall be available and in a form comprehensible to the student except for:

(a) Medical records which, upon written authorization, shall be submitted to a psychologist or physician designated by the student.

(b) Confidential financial statements and records of parents as excluded by law.

(c) Third party confidential recom-

mendations when such access has been waived by the student. Where a waiver has been given, parents as well as students are excluded from viewing such confidential information.

The College shall provide an opportunity, during normal office hours, for a student in person, a student accompanied by a person of his or her choosing, or by mail with proper identification, to challenge the existence of information believed to be inaccurate, incomplete, inappropriate, or misleading. All personal data challenged by a student shall be investigated by College officials, following established channels. Completion of an investigation shall result in the following actions:

(a) If the College concurs with the challenge, student records shall be amended or purged as appropriate; and all previous record recipients shall be so notified by the College.

(b) If the investigation fails to resolve the dispute, the student shall

be permitted to file a statement of not more than 200 words setting forth his or her position, copies of which will be supplied at the student's expense, to both previous and subsequent recipients of the record in question.

(c) If a student wishes to make an appeal of the decision, he may do so in writing to the President of the College.

The names, dates of access and purposes of all persons or agencies other than appropriate Longwood College personnel given access to a student's personal records shall be recorded and maintained. Student records are retained by the College for at least one year after completion of work at the College. Permanent academic records from which transcripts are derived are maintained indefinitely. A student may request and receive information concerning the record of access to his personal information file.



ADMISSIONS

UNDERGRADUATE ADMISSIONS

Admissions Requirements

Eligibility for admission. Longwood College is pledged to a non-discriminatory policy of admissions concerning sex, race, creed, color, handicap, or national origin. The following students are eligible to apply for admission to the College.

1. Graduates of public and private high schools accredited by the State Department of Education in Virginia or schools in the process of being accredited by the state department of education or the accepted accrediting agency of any other state.

2. Graduates of public and private high schools from states other than Virginia, which schools are accredited or are in the process of accreditation within their respective states.

3. G.E.D. certificate holders.

4. Advanced students transferring from other properly accredited colleges and universities. Such students are given a fair equivalent in credit for courses they have taken, provided they are entitled to honorable dismissal from other institutions they have attended and that they meet the other admission requirements of the College.

High school credits. Longwood College requires for admission the following units beyond the eighth grade: four units in English; one unit in American history; one unit in American government (Virginia residents only); one unit in a laboratory science; one unit in algebra and one unit in geometry, or two units in algebra.

Longwood College welcomes applications from prospective students. The admission of all students is on a selective basis. Priority is given to the best qualified applicants. A student should rank in the upper 50% of the class and have made a score on the Scholastic Aptitude Test of the College Entrance Examination Board high enough to indicate success at Longwood College. In order to apply for admission a student must take the following steps:

1. Complete and return an application for admission. (The application must be accompanied by an application fee of \$15.00, which is not refundable.) The application and additional information about Longwood may be obtained by completing one of the cards in the back of this catalog or by writing to the Admissions Office, Longwood College, Farmville, VA 23901.

2. Request that the principal of the high school from which the student was (or is to be) graduated submit to the Director of Admissions a transcript of the high school records. Students who have attended other colleges or universities must likewise request that the registrars of those institutions send complete transcripts of their records.

3. All applicants are required to take the Scholastic Aptitude Test of the College Entrance Examination Board, or the American College Testing Service Examination; they must request that the test scores be sent to the Director of Admissions at Longwood College. Students who are planning to continue the study of a foreign language should take the achievement test in the language of their choice. Data from all tests recommended by the State Department of Education in cooperation with the local school divisions will be reported by the high school principal on the transcript form.

When the College receives the student's application, application fee, the transcripts of the records, and scholastic aptitude test scores, its Committee on Admissions carefully examines the student's qualifications and notifies the student as to whether or not the applicant is accepted for admission.

Students accepted for admission will be required to make a deposit of \$90. The date the payment is due will be indicated in the admission letter. The deposit is refundable until June 1 in the case of first semester admissions and as specified in the letter of admissions for other admission times.

Admission of transfer students. Transfer students from other institutions are admitted for both the fall and spring semesters.

In order to be considered for admission, the applicant must have maintained a grade point average of at least 2.0 on a 4.0 scale (1.0 on a 3.0 scale) on his total college course work and submit a high school transcript and SAT or ACT scores.

No student may be considered for admission to the College unless the student is, or was at the time of withdrawal, in good academic and social standing at the previous institution(s). An official transcript or other document must indicate this fact in addition to a statement of entitlement to honorable dismissal.

Transfer applicants who present the minimum qualifications are considered in relationship to other applications for available spaces in an attempt to admit those students who present the highest qualifications.

Transfer students seeking admission to degree programs must be enrolled as a regular student for one academic session consisting of two semesters of not less than 30 credits prior to graduation.

Readmission. Students who are in good academic and social standing with the College but have not been in attendance for one or more semesters must submit an application for readmission and be readmitted by the Office of Admissions before they will be permitted to register for classes as a regular student. The readmission fee is \$10.00 and is not refundable.

Students who are on academic probation must secure permission to apply for readmission from the Dean of the College. An application for readmission must then be submitted to the Office of Admissions.

Admission to graduate study. Longwood College offers graduate programs leading to the degree of Master of Science in Education and Master of Arts in English. Areas of specialization include supervision, early childhood education, and guidance and counseling. Application for admission is made in the Office of the Director of the Graduate Program.

Title VI and VII of the *Civil Rights Act of 1964* and Title IX of the *Educa-*

tion Amendments of 1972 prohibit discrimination because of sex, race, creed, color, national origin, political affiliation, or handicap. Any person who believes he or she has been discriminated against should contact: Dr. T. C. Dalton, Affirmative Action Coordinator, East Ruffner Hall, Longwood College, 804/392-9338.

This school is authorized under Federal law to enroll nonimmigrant alien students.

Transfer of Credits

The College accepts, on transfer, credits of acceptable grades earned in other accredited colleges and universities provided such credits may be applied toward the requirements for a degree in this institution. Grades earned at other institutions will be recorded at Longwood College in terms of semester hours of credit earned if the transfer grade is "C" or better. Transfer credits of grade quality below "C" are not accepted.

The cumulative quality point average of each student will be calculated on work taken only at Longwood. Transfer credit accepted from other institutions will be used to reduce the number of credits required for graduation, but will not enter into the calculation of the quality point average. The only exception is in determination of graduation honors in which case all work, including transfer work, is used to determine the final quality point average.

Advanced Placement and CLEP

Longwood College offers advanced placement with college credit through the College Level Examination Program (CLEP) and through Advanced Placement Examinations. Both programs are administered by the Educational Testing Service, Box 592, Princeton, NJ. Students seeking information concerning CLEP or Advanced Placement Examinations may contact the Educational Testing Service, the Admissions Office of Longwood College, or their high school guidance counselor.

Second Baccalaureate Degree

A student who has earned a baccalaureate degree from an accredited institution may earn a second baccalaureate degree by satisfying these requirements:

1. Completion at Longwood College of at least 30 additional semester hours in a prescribed program beyond that work applied toward the first degree. The prescribed program must be approved by the appropriate department chairman and the Dean of the College, and must be filed in the Registrar's Office before the program is begun.
2. Completion of all general education, major, and degree requirements in the second degree program.
3. Maintain a minimum cumulative grade point average of 2.0 with a 2.0 or higher in the second major.

Catalog Policy

The student entering a degree program as a freshman, transfer, readmitted or change of major student, must complete the degree program listing in the College catalog effective at the time of entering, or re-entering, the degree program.



EXPENSES AND FINANCIAL AID

Fees and Expenses for Students Living in Residence Halls*

	Virginia Students	Non-Virginia Students
Tuition	\$ 725.00	\$1,225.00
Room	830.00	830.00
Board	765.00	765.00
Comprehensive Fee**	470.00	470.00
Activities Fee	40.00	40.00
Total—Nine Mo. Session	\$2,830.00	\$3,330.00

Fees and Expenses for Students Not Living in Residence Halls

	Virginia Students	Non-Virginia Students
Tuition	\$ 725.00	\$1,225.00
Comprehensive Fee**	349.00	349.00
Activities Fee	40.00	40.00
Total—Nine Mo. Session	\$1,114.00	\$1,614.00

The fees indicated are for the 1980-81 academic year.

*As a residential institution, Longwood College believes group living provides opportunities for personal development and education, and such group living leads to an appreciation of the responsibilities of group behavior. The College therefore requires all students, with the exception of those local students who prefer to live at home, to live in the residence halls. Any other exceptions must be made by a Hearing Board to be convened by the Vice President for Administration.

**Includes charges for Laundry, Post Office, Infirmary, and any other applicable fees. A breakdown of specific charges is available as follows: Business Office, Admissions Office, Financial Aid Office, Office of Vice President for Students Affairs. Students requesting a single room will be charged an additional \$100 per semester, if space is available.

Method of Payment

Students will be invoiced at their home address, for their accounts as follows:

First Semester: one-half of the yearly charges, less any credits, will be invoiced on or about July 1, and are payable by August 1.

Second Semester: the remaining half of the charges, less any credits, will be invoiced on or about November 15, and are payable by December 15.

Registration for each semester is not complete until fees and expenses have been paid or secured to the satisfaction of the College.

No credit for college work may be given to any student for a diploma, a teacher's certificate, or for transfer purposes until all financial obligations to the College, other than student loans, have been paid.

Classification as a Virginia Student

No person shall be entitled to the admission privileges, or the reduced tuition charges, or any other privileges accorded to domiciliaries, residents or citizens of Virginia, unless such a person has been a bona fide citizen or resident of Virginia for a period of at least one year prior to admission, provided that the Board of Visitors may set up additional requirements for admitting students.

Part-Time Students

Virginia students taking 12 or more credit hours will be charged full rates. Virginia students taking less than 12 credit hours will be charged at the rate of \$30.00 per credit hour. Non-Virginia students will be charged at the rate of \$35.00 per credit hour.

A part-time comprehensive fee is charged per semester in addition to the credit hour rate as follows:

9-11 hours	6-8 hours	5 & under
\$130.00	\$87.00	\$43.50
15.00*	10.00*	5.00*
\$145.00	\$97.00	\$48.50

*Activities Fee

Graduate Students

For students taking graduate courses at the College, the charge is at the rate of \$90.00 for each course carrying 3 semester hours credit. For non-Virginia students, there will be an additional charge of \$15.00 per course. Graduate students registering for thesis work will pay a fee of \$180.00. This amount is to be paid only once.

Field Experiences

Since charges vary for students enrolled in student teaching, social work, business administration, government, or therapeutic recreation, semester rates may be obtained in the Business Office.

A \$90.00 deposit is required of all students enrolling in the field experiences program. This deposit will be invoiced by March 1. This fee is refundable until June 1.

Application and Readmission Fees

An advance application fee of \$15 is required of all undergraduate students making their first application to Longwood College. For returning students, a \$10 readmission fee will be invoiced by the Business Office on February 1, and is payable by March 1. Both the application fee and the readmission fee are not refundable.

Reservation Fee

A \$90.00 deposit is required of all students to reserve their admission to Longwood College.

Former students will be invoiced for the deposit on or about February 1, and it shall be payable on or about March 1.

New students will be invoiced for the deposit in the letter of admission from the Longwood College Admissions Office.

The deposit is refundable until June 1 in the case of former students and new students admitted for first semester and is refundable as specified in the letter of admission for other admission times. Requests for refunds must be made in writing to the Vice President for Student Affairs.

Liability Insurance

Longwood College carries personal liability insurance for all students engaged in observation and field experiences.

Accident and Sickness Insurance

Longwood College has arranged with a casualty company for the provision of a student accident and sickness insurance plan. At the present time, participation in this plan is voluntary, and the premium must be paid by the student. The College furnishes the casualty company with a roster of the students who will enter Longwood each August enabling the company to send each parent a brochure explaining the benefits of the plan and the cost.

Diploma Fee

A fee of \$10 will be charged for a Bachelor's diploma and a \$10 fee for a Master's diploma. This fee is payable to the Registrar at the time application is made for graduation.

Special Examination Fee

A charge of \$5.00 will be made for each deferred examination and for the one re-examination permitted each senior.

Transcript Fee

One copy of a transcript will be provided without charge. Additional transcripts will be provided for a fee of \$2 for the first copy and 50 cents for each additional copy requested at the same time. Transcript fees are payable to the Registrar.

Refunds

Official notification of withdrawal must be processed prior to any consideration for refund. This notification must be made in person or in writing to the Dean of Students. Refunds will be based on the effective date of withdrawal. NOTE: Refunds to students who have received financial assistance will be pro-rated in relation to the amount of financial assistance they have received.

The following charges and refunds will be made to students withdrawing from college:

- (a) A student withdrawing during the first 25% of the academic period will be refunded 50% of total charges.
- (b) A student withdrawing during the period from 26% to 50% of the academic period will be refunded 25%

of total charges.

(c) After 50% of the academic period, the student will be refunded only a pro-rata amount of the unused board fee.

Exceptions: Refunds are made at the discretion of the President of the College to students whose connection with the College terminates on account of personal illness, certified by a physician, or whose connection with the College terminates as a result of disciplinary action or enforced withdrawal. Appeals must be made in writing to the Vice President for Student Affairs at the time of withdrawal.

Guests

Students entertaining guests in the College dining hall are charged the following rates, tax included: breakfast—\$1.75; lunch—\$2.25; dinner—\$3.00.

Former students of the College are always welcome, and are not charged for meals for a period not exceeding two days, with the exception of two weekends. On the weekends of Oktoberfest and Spring Festival, guests, including alumni, are charged for meals at the rates stated above.

Students are not permitted to invite guests for weekend visits unless the invitation is approved by the Head Resident. Meals for guests, other than alumni, are charged at the rates stated above. Meal tickets may be secured from the Information Office.

Financial Aid

General Information. The purpose of the Longwood College student aid program is to provide financial assistance to students who, without such aid, would place an unreasonable financial hardship on their family. The College assumes that the primary responsibility for financing a college education lies with the student and his parents. Awards by the College are intended to supplement the family's contribution.

The Financial Aid Office offers financial information and counseling to all students attending Longwood. The types of financial assistance offered include student employment, loans, grants and scholarships. Eligibility for these programs is determined by completing the Financial Aid Form which is available from high schools or Longwood College. Application should be made

prior to March 1 of the academic year for which funds are being requested.

A brochure containing specific information about financial aid may be obtained by visiting or writing the Financial Aid Office, Longwood College, Farmville, VA 23901.

Application Procedures

An application for assistance consists of the following: (1) A completed Financial Aid Form [FAF] (or Virginia Financial Aid Form [VFAF] for Virginia residents) submitted to the College Scholarship Service no later than March 1, indicating Longwood College as an institution to receive the FAF [VFAF]. This need assessment document will determine the eligibility for a Basic Educational Opportunity Grant [BEOG] and all types of assistance from the institution; (2) By filing the VFAF, Virginia residents have applied for all state grants including the College Scholarship Assistant Program Grant [CSAP]. To be considered for the CSAP grant, students must have their VFAF on file with the College Scholarship Service by March 31. The award period for Longwood College is during the month of April; therefore, any applications received after April 1 will be awarded as they are received in the Financial Aid Office from the remaining funds.

All aid is awarded on the basis of an academic year. Students are expected to file application for renewal of aid each year.

Federal Programs Available Through Longwood: Basic Educational Opportunity Grant; Supplemental Educational Opportunity Grant; National Direct Student Loan; College Work-Study Program.

State Programs Available Through Longwood: College Scholarship Assistance Program; General Undergraduate Scholarship; Guaranteed Student Loan Program.

Institutional Programs at Longwood: Institutional Work-Study. This program provides students the opportunity to work in various on-campus jobs and is not based on need.

The Longwood Scholars Program. This program provides a limited number of exceptionally capable students with further opportunities for educational initiative and advanced study. It is open to matriculating freshmen who intend to fulfill the requirements for a

bachelor's degree awarded by Longwood College. Applicants must possess high class rank and have an exceptionally high combined score on the college board examination. A brochure outlining this program may be obtained from the Admissions Office, Longwood College.

Performance Scholarships. Each year various areas of the College are selected to award performance scholarships to entering freshmen. Awards in the past have been made in Art, Music, and Athletics. Application should be made directly to the department chairman of the academic area involved.

Army ROTC

Cadets may compete for Army Scholarships that include all academic fees, tuition, supplies, and equipment plus subsistence of \$100 per academic month. Scholarship information is available by writing to the Financial Aid Office at Longwood College. Non-scholarship cadets can earn \$100 per academic month during the advanced course work which begins in the junior year.

Military Science Scholarships are available on a competitive basis. ROTC students and non-ROTC students interested in joining are eligible to apply. Questions should be addressed to Department of Military Science, Longwood College.

Longwood Scholarship and Loan Funds

1. Financial Aid Scholarships – The Financial Aid Office awards a number of scholarships each year on the basis of financial need. For further information, contact the Office of Financial Aid. These scholarships include the following:

Delta Kappa Gamma—Awarded to a student who graduated from high school in Cumberland, Buckingham or Prince Edward County.

Ann Elizabeth Downey—Awarded to a female student from Portsmouth or alternative Tidewater area.

Lulie Evelyn Duke—Awarded to an elementary education major from the Chesapeake-Portsmouth area.

Jessie Ball duPont—Awarded on the basis of financial need. Mrs. duPont, a member of the Class of 1903, established this scholarship fund in 1958 to assist deserving Longwood students.

Gamma Theta/Kappa Delta—Awarded on the basis of academic achievement and financial need.

Margaret Helm Gilmore—Awarded on the basis of financial need.

Kappa Delta Founders—Awarded to an initiated member of a National Panhellenic Conference Sorority with a chapter at Longwood. Based on academic achievement, financial need, and service to the College.

Elizabeth Savage Newlin—Awarded to a student from the Eastern Shore of Virginia on the basis of financial need. Frank B. and Mary Ann Hurt of Ferrum, VA, established this scholarship fund in memory of Mrs. Hurt's aunt, Elizabeth Savage Newlin, a Longwood graduate, Class of 1895.

O'Hara/Waldo—Awarded on the basis of academic achievement and financial need.

Mrs. Samuel C. Oliver—Awarded to lineal descendants as first preference. If no lineal descendants, awarded to a student from Nansemond County, on the basis of academic achievement and financial need.

Florence H. Stubbs—Awarded to a student from Virginia or South Carolina on the basis of financial need.

2. Department Scholarships and Awards

Many departments offer scholarships within the specific academic area. For further information concerning these scholarships, contact the department chairman of the academic area involved.

Performance Scholarships—Each year various areas of the College are selected to award performance scholarships for entering freshmen. Awards in the past have been made in Art, Music, and Athletics.

1. Business/Economics Department: John P. Wynne Scholarship.

2. English Department: Mary Clay Hiner Scholarship; Simonini Award; Emily Barksdale Scholarship; Helen Draper Scholarship.

3. Home Economics Department: Lora Mae Bernard Scholarship. Worthington Johnson Crafts Scholarship; DiAnne Collet Scholarship; Nell H. Griffin Scholarship.

4. Mathematics/Computer Science Department: Badger-Magnifico Mathematics Award; John R. Clark Mathematics Education Award; Cada R. Parrish Elementary Mathematics Education Award.

5. Music Department: Emily Clark Music Education Scholarship.

6. Physical Education Department: Olive T. Iler Award.

7. Science Department: Edith Stevens Award.

8. Sociology Department: Kathleen Goodwin Cover Scholarship.

9. Speech/Dramatic Arts Department: Leola P. Wheeler Scholarship.

3. Other Scholarships—

Herbert R. Blackwell—Awarded to a student who has shown unusual academic promise in the freshman year. *CHI Emergency Scholarship*—Awarded by CHI to students with emergency need. Students should contact the Office of the President if an emergency situation arises.

Sally Barksdale Hargrett Prizes—

These prizes were established by Felix Hargrett in memory of his wife, Sally Barksdale Hargrett, a 1921 graduate, to encourage academic excellence. The prizes are strictly in recognition of outstanding academic achievement, exceptional promise, and significant contribution to college life. Only female students from Virginia currently enrolled at Longwood will be considered. Students may not apply for these prizes since they are bestowed as earned honors. Eligible students will be nominated by their department chairman to the Dean of the College in February. The Dean of the College and the Dean of Students will review each nominee carefully and make the final selection of one rising junior and one rising senior as prize recipients.

Elizabeth Burger Jackson—Awarded by Geist to an outstanding sophomore or junior.

Dabney Stewart Lancaster—Awarded by Student Government to an outstanding upperclassman.

Fred O. Wygal—Awarded by the Freshman Class to a member of the Freshman Class who has participated in extracurricular activities, and has shown academic achievement, with consideration given to financial need.

Alumni Scholarships and Loans—Alumni Scholarships and Loans of varying amounts are awarded by the various alumni chapters. Questions should be addressed to the Alumni Office, Longwood College.

4. Longwood Loan Funds—For more information concerning loan funds, contact the Office of Financial Aid. Loan funds available include:

Cover-Rowles

John A. Cunningham

Carrie Dungan/Nettie Chappell

Carrie Fowles

Robert Frazer

Fay Byrd Johnson

J. L. Jarman

Jennie Master Tabb

Outside Programs

Alumni Scholarships are awarded by various alumni chapters. Questions should be addressed to Alumni Office, Longwood College.

Methodist Student Loan. A student who is a full member of The United Methodist Church, a citizen of the United States, is admitted to a degree program, and has a "C" average, may be eligible to borrow up to \$700 as an undergraduate student and \$1,000 as a graduate student each calendar year. In-

terest is 4% and payments do not begin until six months after graduation or withdrawal from school. For more information, contact the Director of the United Methodist Campus Ministry at Longwood College, 205 High St., Farmville, VA 23901, or phone 804/392-4933.

Guaranteed Student Loan Program enables the student to borrow directly from his or her local bank, credit union, savings and loan association, or any other participating lender who is willing to make the educational loan. Information and application forms are available from these lenders. If the student is unable to obtain a Guaranteed Student Loan from any of the above lenders, he can apply through the Virginia Education Loan Authority (VELA). Information and applications may be obtained from the Financial Aid Office or by writing to VELA, 104-106 N. 6th St., Richmond, VA 23219. All Guaranteed Student Loans are guaranteed by the State and reinsured by the Federal government.

The Tuition Plan, Inc. Not a finan-

cial aid program. The Tuition Plan may be needed by parents for whom installment payments are more practical. A descriptive brochure may be secured from The Tuition Plan, Inc., Concord, NH 00331.

United Virginia Bank Student Loan Plan. Not a financial aid program, the United Virginia Bank makes available loan funds to assist students and parents in meeting educational costs. Students should contact their local United Virginia Bank or send for a descriptive brochure to: United Virginia Bank, P.O. Box 26665, Richmond, VA 23261, ATTN: Educational Loan Plan.

Senior Citizens. Senior citizens aged 60 or over with a Federal taxable income of less than \$5,000 per year can enroll in credit courses free of tuition provided they meet the admissions standards of the institution and space is available. Any senior citizen aged 60 or over can enroll in a non-credit course or audit a credit course free of tuition regardless of taxable income provided space is available.



STUDENT LIFE SERVICES

The faculty and administrative officials of the College believe that their ultimate responsibility is to assist students to be well-adjusted, useful citizens in the state and nation. To this end, a wide variety of services are provided to aid the students in need of guidance.

Academically, the student is expected to assume responsibility for all curriculum requirements. Faculty members within the major department serve in an advisory capacity to students in this area. Students should feel free to discuss any academic problems that they may have with a member of the faculty or with the Dean of the College.

The office of the Vice President for Student Affairs and Dean of Students is an integral part of the student personnel program. The staff is responsible for student life in the residence halls, health, laundry and dining services and for the numerous student life activities.

Members of the Dean of Students' staff are responsible for providing counseling services for students. A full-time Director of Counseling Services coordinates personal, academic and career counseling programs. Group seminars are organized to promote improved study habits and also to provide information and discussion on timely student concerns, such as alcohol and drug abuse, human sexuality and others. Opportunities are available for administration and interpretation of test results including vocational interest inventories on an individual basis.

Residence Halls

As a residential institution, Longwood College believes group living provides opportunities for personal development and education, and such group living leads to an appreciation of the responsibilities of group behavior. The college, therefore, requires all students, with the exception of those students who prefer to live at home, to live in the residence halls. Any other exceptions must be made by the Committee on Off-Campus Housing, convened by

the Administrative Assistant to the Vice President for Student Affairs.

Ten residence halls provide living quarters for all resident students. Several halls are reserved for women students only, several for males only, and some space is available for women and men to share a residence hall, living on separate floors in one high-rise facility. Resident Supervisors are staff members who live in the residence halls and supervise a staff of Resident Assistants and Desk Aides who assist in the operation and maintenance of the residence halls.

Students are responsible for the care of their rooms and for providing such furnishings as lamps, bedspreads, drapes, blankets, pillows and linens. The college provides beds, dressers, study tables and chairs and bookcases whenever possible. Kitchen and laundry facilities are available in all residence halls and are located on most floors. Lounges, study rooms and television rooms are situated in all resident facilities for the use of students and their guests.

In the spring, returning upperclassmen choose their residence halls and suites for the next fall session. A system of homesteading is available to those who wish to retain their current room with the same roommate(s); members of the senior, junior and sophomore classes respectively then select numbers for room assignments in keeping with the current housing plan which is announced in advance in order that students may express individual concerns related to the housing for the next session.

The oldest of the residence halls are **Tabb** and **French**. These two buildings are located east of Ruffner Hall, and overlook the colonnade and sunken garden. Students have direct inside access to the gymnasium, swimming pool, infirmary, dining hall and a number of classrooms. Bathroom facilities are located on each floor. Extensive renovation programs were completed in these residence halls in 1970, 1971 and 1972.

North Cunningham, constructed in 1928, **Main Cunningham** in 1932, with an annex constructed in 1938, and

South Cunningham in 1958, form a complex of three residence halls. Centrally located on campus, each of these residence halls has elevator service and rooms arranged in suites with connecting baths.

Wheeler, Cox and Stubbs, similar in construction and appointment, were built during the period 1960-66, and are located on the western edge of the campus. Elevator service is provided in each and the rooms here, as in the **Cunninghams**, are arranged in suites with connecting baths. Social sorority members may choose rooms in **Stubbs** adjacent to the chapter rooms.

Curry and Frazer, ten-story, high-rise buildings, were completed in 1969 and 1970 respectively. They are of contemporary design, centrally air-conditioned and offer elevator service. Located on Main Street on the eastern edge of the campus, the residence halls are connected by a beautifully appointed Commons Room. Students are housed in suites of two and three bedrooms, and each suite contains a bathroom facility.

Support Facilities

The **Lankford Student Union** is the hub of student activities on the Longwood campus. Constructed in 1967, it is located between **Iler Gymnasium** and **Stubbs Residence Hall**, the **Cunninghams** and **Wygat Music Building**. The lower floor contains bowling alleys, a snack bar, bookstore, post office and offices for student publications. The entrance near the Snack Bar opens onto a patio where umbrella-covered tables are provided for student use. The upper floor contains the beautiful Gold Room where many social affairs are held, reading and television rooms, a large meeting hall which may be divided into three smaller rooms, offices for student government organizations, and the office of the Director of Student Activities. A separate room with Pullman kitchen is provided for use by day students.

Blackwell Dining Hall is part of Ruffner Hall and may be entered from the Rotunda. The dining hall accommodates all resident students for family style meals in both upper and lower halls. Food service is provided by the A.R.A. Slater Management, Inc., a nationwide company specializing in college food service. The bakery and kitchens contain modern cooking and dishwashing equipment.

An extension of first and second floor facilities, providing seating for an additional 450 persons, a banquet room, roof terrace, and central air-conditioning for the entire building was completed during the summer of 1972.

Located adjacent to Tabb and French Residence Halls, the **Infirmary** provides emergency medical service and short-term care for students. It is staffed by a physician and five registered nurses. A renovation and modernization program of the building was undertaken in 1971.

The east wing of **Graham Building** houses the Campus Police Office. The **Laundry** is housed in the west wing of the structure and is equipped with modern machinery to render required service to the students, dining hall, and Infirmary.

The elegant and historic **Alumni House**, located two blocks from the main campus on High Street, was formerly the residence of the college president. It now provides facilities for social functions and limited overnight accommodations for visiting alumni.

A hard-surfaced parking lot for student automobiles was completed opposite the Student Union in 1970. It is lighted and will accommodate 90 cars. Two temporary parking lots are located opposite Curry and Frazer Residence Halls. Other temporary lots for students' cars are located adjacent to Iler Field and on Ely Street. Students' authorized automobiles are also permitted to park on the several streets passing through and bordering the campus. The Chief of Campus Police maintains a chart showing parking areas and issues parking permits.

Parking for faculty and staff is provided in lots adjacent to Jarman Auditorium, Tabb Hall, Graham Building, Hiner Building, Coyner Building, and the Fine Arts Complex.

It should be understood that every effort is made to provide students with parking areas. However, the College has

no obligation nor authorization to expend funds for the purchase of additional land or to build additional parking areas. The College therefore reserves the right to modify the rules, at any time, in regard to who may have automobiles at the College.

Orientation

The first few days of each regular session are designated as a period of orientation for freshmen and other new students. **The Colleagues**, a group of carefully selected sophomores together with orientation group leaders and student assistants, conduct a program of study and activities which acquaints the new students with the customs, traditions, and regulations of the College. This program has proved to be exceedingly valuable to new students as they adjust to the life on the campus.

Student Health Services

The College maintains a Student Health Service. Students needing medical attention are treated in the well-equipped infirmary maintained by the College. The infirmary gives 24-hour service with a nurse available at all times. The College Physician is available on call at any hour for emergencies and sees patients regularly Monday through Friday. Services of consultants, hospitalization, private nurses, special prescriptions, x-rays, other laboratory work, etc., are at the expense of the student. The College Physician communicates with the parents immediately in case of serious illness.

The Southside Community Hospital is located only a few blocks from the College. It is well-equipped and is in the charge of a capable staff of physicians and surgeons. The College Physician is a member of the staff.

Every student must file a Health Record in the Infirmary. This record must include the results of an up-to-date physical examination, signed by the student's physician.

Longwood College has arranged with a casualty company for the provision of a student accident and sickness insurance plan. At the present time, participation in this plan is voluntary, and the premium must be paid by the student.

The Student Government Association

The Student Government Association of Longwood College is a three branch body consisting of the Legislative Board, the Judicial Board, and the Residence Board. Each branch carries out its duties through members elected directly by the student body in campus-wide elections. These three branches functioning together form a vital structure through which student opinion can be channeled.

The Legislative Board oversees all phases of student life. Its representatives make student regulations and discuss key problems involving the overall welfare of the student body. Through its thirteen standing committees, it strives to generate awareness of campus activities, to utilize student opinion, and to act as a liaison among the students, faculty and administration.

The Judicial Board enforces the regulations made by Legislative Board and strives to instill the meaning of the Honor Code in the minds of the students of Longwood College. Its members work with the students both openly and confidentially in their concern for the individual and his welfare.

The Residence Board strives to stimulate within the student body refinement in dress and conduct and to promote and enforce favorable study conditions on the campus. The work of the Residence Board is done by the officers and by the Residence Hall Presidents elected from each residence hall. Residence Hall Councils in each residence hall function under and work with the Residence Board. The purpose of Residence Board is to make and enforce the residence hall, dining hall, and fire regulations, as well as the social rules.

The underlying principles of conduct and relationship of the students, faculty members and administrative officials are embodied in the Honor System, a cherished tradition of the College. The way of life on the campus is based on the Honor Code.

The Honor Code serves as a practical example of a truly democratic form of student life and self-government. Students make the rules and violators are tried by a jury of their peers. Because they appreciate the importance and convenience of their agreement to trust one another, they also recognize the need to control the few among them who are either unable to unwilling to accept the responsibilities of their mu-

tual trust. A dishonorable act is a betrayal of the whole student body and is regarded as such. It is an Honor Code offense to lie, to cheat, or to steal in any and all academic and property matters. Lying before Judicial Board or Residence Board or a member thereof in any manner during an investigation or trial is an Honor Code offense. Falsification of records with the intent to give untrue information is also a breach of the Honor Code.

The Student Union

The Student Union is composed of students who work for the purpose of providing entertainment and recreation as well as social, educational, and cultural activities. All interested students are given the opportunity to become immediately involved in the program.

The Student Union sponsors a popular film series, mixers, concerts, coffee houses, Saturday Night Alive programs with local talent, special events during certain weeks of the year and such popular weekend activities as Oktoberfest and Spring Weekend. Through the wide range of programs, the Student Union appeals to the interests of all Longwood students.

Religious Organizations and Churches

The moral and religious aspects of education are considered as important as are the physical and intellectual. During the history of the College, a tradition of good will, cooperation and high standards of personal relationship has developed. Such a stabilizing influence cannot be described; it can be appreciated only through living in the atmosphere it engenders. But this intangible influence is experienced by both students and faculty to such a degree that it has become a distinct moral force in the whole College community.

The College is a home in which everyone is expected to do his part and share in a give-and-take relationship with others. Certain modes of life are prized and valued because in a long history they have proved their worth. In such an atmosphere it is difficult for the young student to fail to develop high ideals and a wholesome moral outlook on life.

The Interreligious Council, Baptist Student Union, Newman Club and Wesley Foundation provide spiritual acti-

vities to meet the needs of the students. Campus Ministers represent the Baptist, Episcopal and Methodist churches on campus.

Students are also encouraged to participate in the religious life of the community. They receive a cordial welcome from the ministers of the town to participate in their church life, which includes regular Sunday services, prayer meetings, Sunday School classes, and social gatherings. Special leaders, working with students through the medium of student organizations, are provided by some of the churches.

Farmville churches include the Baptist, Church of God, Episcopal, Lutheran, United Methodist, Presbyterian, Roman Catholic, Seventh-Day Adventist, and Wesleyan Methodist. Where there is no organized church leadership, as in the case of the Christian Scientists, students of the respective faiths usually have contact with local residents having similar church affiliations.

Intramural Activities Association

All students are eligible to participate in the activities sponsored by the Intramural Activities Association, formerly known as the Athletic Association. The name was changed in 1975 to promote participation in intramurals and other activities for enjoyment of the student. Some of those activities are: Demonstration Day for incoming freshmen; Color Rush—a series of relay races between greens and reds during Oktoberfest weekend; and Song Contest—a competition between classes for the best song. The organization also sponsors various trips to athletic events for the enthusiastic fan. These intramural activities serve as a means of student recreation. They provide a chance to have some fun, meet other students and make new friends.

Intercollegiate Athletic Program

The Intercollegiate Athletic Program at Longwood consists of 13 activities: baseball, basketball (men's and women's varsity, men's junior varsity), field hockey, golf (men's and women's teams), gymnastics, lacrosse, riding, tennis, soccer, volleyball, and wrestling. Needs in athletics are reviewed annually by the Intercollegiate Athletic Council.

The purposes of the Intercollegiate Athletic Program include: (1) providing competitive experiences for athletically talented individuals; (2) providing opportunities for students to develop a high level of sport skills; (3) encouraging excellence in performance of sport skills; (4) providing a setting in which participants may experience the personal, social, mental, and physical values which are inherent in educationally sound athletic programs.

It should be noted that philosophically, regardless of the intensity of the competition sought, athletics remain secondary in importance to academic responsibilities and that these programs continue to be conducted upon principles which are consistent with the educational aims and objectives of Longwood College.

Longwood College holds memberships in the following organizations: Association of Intercollegiate Athletics for Women (AIAW); National Collegiate Athletic Association (NCAA); Southern Region II of AIAW; and the Virginia Association of Intercollegiate Athletics for Women (VAIAW).

AIAW and NCAA are national organizations which provide governing bodies and leadership for establishing and maintaining standards of excellence in athletics.

Southern Region II and VAIAW are part of the AIAW regional and state organizational structure.

Intercollegiate Athletic Council

The purpose of the Intercollegiate Athletic Council is to establish policies and procedures for intercollegiate athletics as they relate to the total College function, and to make recommendations to the President of the College for approval.

The role of the Council is: (1) to review athletic budgets as an auxiliary enterprise activity as submitted by the Budget Preparation Committee of the Department of Health, Physical Education & Recreation; (2) to review Title IX implications and future legislation as it pertains to athletics at Longwood College; (3) to consider requests for new sports and new teams, or modifications and deletions of existing teams.

The Intercollegiate Athletic Council is appointed by the Vice President for Academic Affairs and includes the

following members: Administrative Assistant to the President; Vice President for Academic Affairs; Director of Financial Aid; Chairman of the Department of Health, Physical Education, and Recreation; three faculty members, two other than health, physical education and recreation faculty; and one from the athletic coordinating staff; Director of Men's and Women's Athletics; and two students. The President is an *ex officio* member of the Council.

Honorary and Professional Societies

There are a number of honorary and professional societies which recognize excellence in various fields.

The principal honorary organization on campus is Geist. Established in 1966 as an outgrowth of Alpha Kappa Gamma, Geist recognizes young men and women in their junior and senior years who have compiled outstanding records in leadership, scholarship, and service to the college community. The members of Geist continue to serve Longwood College by sponsoring the highly successful Oktoberfest weekend in the fall, a bloodmobile drive during the year, and by awarding the Elizabeth B. Jackson Scholarship to an outstanding student in the spring.

The Longwood chapter of the National Honor Society of Phi Kappa Phi was established at Longwood in February of 1972. Founded in 1897, the purpose of the society is to emphasize scholarship and character in the thoughts of students, to foster the significant purposes for which institutions of higher learning have been founded, and to stimulate mental achievement by recognition through election to membership. Undergraduates are eligible for membership as last semester juniors or

seniors. For consideration as a junior, the student must achieve a 3.75 cumulative quality point average. For consideration as a senior, he must achieve a 3.50 cumulative quality point average.

Alpha Lambda Delta is a national society which honors high scholastic achievement in the freshman year. The local chapter was installed in the fall of 1966. To be eligible a freshman must have a 3.5 average at the end of the first semester, or a cumulative 3.5 at the end of the freshman year. The purpose of the organization, as stated in the constitution, is "to promote intelligent living and a high standard of learning, and to encourage superior attainment among freshmen in institutions of higher learning."

In addition, twelve departmental honorary societies are available at the College. Listings of these honoraries may be found in the *Handbook for Students*. **Honors Council**, composed of representatives from the twelve honor societies, seeks to further the academic atmosphere of the campus, provide an incentive for academic achievement, recognize those students who have achieved academic excellence, and coordinate the activities of the honor societies. The Council is composed of the president and a junior representative for each of the societies.

Departmental and General Organizations

Longwood has many organizations intended to bring together students having common interests. The departmental groups include those in the special interest areas of drama, music, dance, aquatic arts, foreign languages and leadership training. Detailed descriptions of all of the groups are explained in the *Handbook for Students*.

Fraternal Societies

Thirteen social sororities and fraternities are actively involved in campus events. Four social sororities were founded at Longwood. The first fraternity was colonized in 1976. The Panhellenic Council is the coordinating organization for eleven of the sororities on the campus.

Student Publications

The students of the College sponsor three publications: *The Rotunda*, *The Gyre*, and *The Virginian*. The activities of these publications are regulated by Publications Board, an advisory committee comprised of the editors and business managers of the three publications and members-at-large appointed from the student body.

The Rotunda is the College newspaper which keeps the students and faculty informed of events and the interests of the College as observed from the point of view of the student. It not only expresses the attitude of the students toward the various phases of College life and current activities, but also exerts an important influence in the development of the ideals of the College community.

The Gyre is a literary magazine to which students contribute essays, poetry, short stories, and other writings, as well as art work. It sponsors contests, from time to time, to stimulate literary effort.

The Virginian is the yearbook of the College. Students are responsible for the art work, the editing, and the management of the publication. Each issue represents a cross section of College life for the year. It is, therefore, highly valued by members of the graduating class.

ACADEMIC REGULATIONS

Summarized in this section is important information related to the academic work of the College. Students must be familiar with the information in this section. *It is the responsibility of each student to be certain that academic requirements necessary for graduation are completely fulfilled.*

Course Numbers

The courses listed in this catalog that are numbered between 100 and 199 are designed primarily for first and second year students; those between 200 and 299 are for second year students; those between 300 and 399 are for second, third, and fourth year students; and those between 400 and 499 are for third and fourth year students. Undergraduate Honors Courses are numbered 498 and 499. Courses numbered from 501 to 599 are for graduate and advanced undergraduates.

Students are not permitted to enroll in courses that are more than one year above or below their classification of the semester, except with permission of the Dean of the College.

Student Load

The College is organized on the semester plan whereby the credit hour, abbreviated as "credit", is the semester hour. The average schedule of a student during a semester includes classes giving from fifteen through seventeen credits. *Boarding and regular students are required to carry a class load giving a minimum of twelve credits.* Freshmen may only carry seventeen credits; however, an upperclass student may carry as many as eighteen credits without special permission. A schedule beyond that amount requires special permission from the Dean of the College. Such permission is rarely granted to a student whose academic average for the preceding semester is less than 2.5.

Registration and Course Changes

Advance registration for courses is held each semester for the subsequent semester. Students whose bills are not paid on time forfeit the advance registration schedule and must re-register and pay their fees at a designated time immediately prior to the beginning of classes for the semester. After registration, all schedule changes made by students must be approved by the student's faculty adviser and by the Registrar.

No student is permitted to enroll in a course for credit later than one week after classes begin in any semester. Any student who withdraws from or "drops" a course after the designated drop period is over in any semester will receive a grade of "F" in the course unless the withdrawal is due to advice of the College Physician or to the withdrawal of the student from college, in which case a grade of "W" is given.

No credit is allowed for any course taken for which the student has not registered and which is not listed on the approved schedule of classes filed in the Registrar's Office.

Grades

The achievement of a student in a course is indicated by the grade that is received. The significance of these marks is indicated below:

- A: Superior work
- B: Above average work
- C: Average work
- D: Below average but passing work
- P: Pass
- F: Failure
- I: This grade indicates that because of illness or for other good reason the work of the semester has not been completed. When this work has been completed acceptably, a final grade will be reported. *A grade of "Incomplete" will revert automatically to a grade of "F" if the necessary makeup work has not been completed by mid-semester estimates immediately following the semester in which the "I" was incurred.*

W: This symbol indicates that a student withdrew from a course. It is used in cases of students dropping courses after the drop period at the beginning of a semester for medical reasons and for those students who withdrew from the College prior to the end of a semester. Students withdrawing during the final two weeks of classes each semester will not be readmitted for the following regular semester, unless the withdrawal is caused by legitimate medical reasons.

Beginning with the 1980-81 academic year, plus (+) and minus (-) grades may, at the discretion of the instructor involved, be recorded. Pluses and minuses do not affect the computation of the quality point average.

The lowest passing grade is "D". However, for a degree a student must earn a general average of "C" (a quality point average of 2.00) on all college work. Also the student must have a general average of "C" in those courses constituting the major subject or field. If a student repeats a course in order to raise an average, the grade received on the repeated course will replace the original grade. *Credit toward graduation will be granted only one time for any course.*

Students may take certain courses under the pass/fail system approved by the faculty in 1974. Pass/fail courses are open to undergraduate students with 30 or more credit hours. A student may take a maximum of three courses or 9 hours, whichever is greater; these courses may not be those which are required for general education or major and minor requirements. The student must do satisfactory work in order to obtain a passing grade. Satisfactory work is defined as "C" work or better. Pass/fail hours will not be included in the grade point average. Students who wish to take a course for pass/fail must notify the Registrar of that fact before the end of the first six weeks of classes in the semester.

At the end of the first half of each semester of the regular session, mid-

semester grade estimates are issued to freshmen and their parents or guardians. Estimates are also issued at this time to upperclassmen who have a grade of "D" or "F" in any course. These are not official grades. Instead, they represent the instructors' estimates of the students' progress up to that point. At the end of each semester, reports are issued to students and their parents or guardians showing the final grade earned in each course in which they are enrolled.

NOTE: A student who fails a course at Longwood College may not repeat that course at another institution.

Repetition of Courses

Should the student choose or be required to repeat any courses, for the first five (5) courses repeated, the student's most recent grade will be used in computing the quality point average, without increasing the total number of hours attempted in calculation of the quality point average. However, though the most recent grade is used in computing the quality point average for the first five courses, all final grades received in the course(s) will appear on the transcript. If additional courses are repeated, all grades and hours attempted for these courses will be used in the calculation of the quality point average.

Quality Credits

The quality of work completed by a student is recognized by the assignment of points to various grades.

Under this system, 4 quality points are given for each credit on which an "A" grade is made; 3 quality points are given for each credit on which "B" grade is made; 2 quality points are given for each credit on which "C" grade is made; and 1 quality point is given for each credit on which "D" grade is made. No quality points are given if a grade of "F" is made in a course.

Under the four point system, a student's quality point average may be computed by dividing the number of quality points earned by the total number of semester hours attempted. *A student's quality point average is based only on work taken at Longwood College.*

The one exception to this regulation is when a student's quality point average is being computed for honors at the end of the senior year. At that time, all work, both at Longwood and elsewhere, is used to compute averages for honors.

Scholastic Achievement Necessary to Remain in College

Academic Probation is a state of warning and indicates that the student's work is not satisfactory. Freshmen whose cumulative quality point average is less than 1.6 at the end of the academic year are placed on academic probation. Sophomores whose cumulative quality point average is less than 1.8 at the end of the academic year are placed on academic probation. Juniors whose cumulative quality point average is less than 2.0 at the end of the academic year are placed on academic probation. Freshmen and sophomores whose cumulative quality point average is less than 1.6 and 1.8 respectively at the end of the first semester will be sent letters of warning which will remind them that their academic performance is not satisfactory and that improvement must be made during the following semester. All students whose cumulative quality point average is less than 2.0 will receive notification that their work to date is substandard and improvement is expected and necessary.

Full-time students at any class level who achieve less than a 0.5 average during any semester will be placed on academic probation immediately. Such students will be given one semester, during which at least 12 hours must be attempted, to make at least a 2.0 on that semester's work. Failure to achieve this average in a semester will result in academic suspension from the college for a calendar year.

For students who start their academic careers in the summer or during the second semester, a year will end when they have attempted at least 12 hours per semester for two semesters.

Academic probation may be removed by increasing the quality of academic performance during the regular session and/or by attending the summer session at Longwood College. Students on academic probation are encouraged to attend the summer session in order to remove the academic deficiency as soon

as possible. Students on academic probation have the following twelve calendar months (two regular semesters and one summer session) in which to improve their cumulative quality point average. Failure to do so will result in academic suspension from the college for one calendar year.

For the determination of academic probation, a freshman is defined as a student who has attempted at least 12 hours per semester for a total of 24 to 30 hours after two semesters; a sophomore has attempted at least 12 hours per semester for a total of 48 to 60 hours after four semesters; and a junior has attempted at least 12 hours per semester for a total of 72 to 90 hours after six semesters. In summary, to remain in good academic standing, the following cumulative quality point averages must be attained:

- 1.6 at the end of the freshman year;
- 1.8 at the end of the sophomore year;
- 2.0 at the end of the junior year and thereafter.

Students are reminded that a 2.0 cumulative quality point average on all work and in all major courses is necessary for graduation. In addition, all work must be completed in ten full-time semesters (a minimum of 12 semester hours per semester).

Students on academic probation may not transfer credit earned at other institutions during the probationary period.

Academic Suspension. After being placed on academic probation, students have the following twelve calendar months (two regular semesters and one summer session) in which to remove themselves from this status. Upon failure to do so, the student will not be permitted to enroll in Longwood College for at least one calendar year. Upon being readmitted, the student has twelve months to remove the academic deficiency. Failure to do so will result in suspension from the college for at least five years.

Enforced Withdrawal

The College will suspend or expel any student who fails to meet the standards of the College and the Student Government Association. In such a case, there will be a refund to the student.

Academic Honors

The College recognizes superior scholarship through its Dean's List and the announcement of an honor list at each Commencement. The Dean's List is published at the end of each semester. Students whose names appear on it are those who have earned an academic average of 3.50 or above on a minimum of 12 semester hours work taken in the semester with no grade below "C". Students eligible for the Dean's List must complete all courses in the semester for which they are registered. A grade of "I" on a student's record prevents consideration for this honor.

Those students whose general averages for all credits offered for a degree for four years of study are 3.35 or above are graduated with the following honors:

Cum Laude—3.35-3.54

Magna Cum Laude—3.55-3.74

Summa Cum Laude—3.75-4.00

The College also recognizes graduating seniors who have successfully completed an honors program in a specialized academic area.

Honors Program

The honors program was inaugurated by the College in 1930 to enable capable students to study intensively a subject of their choice, thereby becoming acquainted with methods of research, organization of materials, and the presentation of results in a scholarly manner. Such intensive study stimulates initiative, resourcefulness, and original thought. Students in all departments are eligible to participate in this program. The program is administered by the Honors Committee. Under this plan, the student is directed in creative research by an instructor who has specialized in the field and who acts as sponsor. The student enrolls in Honors Research 498 and 499, thereby gaining 6 credits toward graduation.

Honors Program Procedures

1. A junior or senior who has a minimum quality point average of 2.7, with a 3.0 in his/her major may enroll in Honors Research 498, after receiving permission from his/her sponsor, department chairman and

the Honors Committee prior to the Registrar's deadline for adding courses after the semester begins.

2. To receive this permission students must submit a written proposal stating their thesis, the method and scope of research and a preliminary bibliography. Students are encouraged to submit sufficient copies of their proposal early in the semester prior to their beginning honors work. These copies shall be submitted to the chairman of the Honors Committee. After submitting the proposal, students must meet jointly with their departmental chairman, sponsor, and the Honors Committee to discuss their proposal.
3. If the proposal has been accepted, the student will enroll in Honors Research 498 and an examining committee to be comprised of three members (excluding the sponsor) proposed by the sponsor and approved by the department chairman and the Honors Committee is to be assigned. The members of this committee will be available for consultation.
4. With the consent of his/her adviser the student may register for Honors Research 499.
5. The student shall follow an accepted style sheet. Four copies of the paper shall be submitted to the Honors Committee prior to the examination. Two of these copies will be retained in the library and the other two will be returned to the student.
6. An oral examination will be administered by the examining committee. A member of the Honors Committee will be present and will report the recommendations of the examining committee to the Honors Committee for final approval. The approval of at least two members of the examining committee is necessary for the granting of honors.
7. Students who complete Honors Research 498, 499 with a grade of "A" or "B", who have maintained the grade point average indicated above, and who have passed an oral examination in their research topic, and who have met any other requirements which their major department may require for graduation, will be graduated with honors in their major field.
8. Should the student elect not to take the oral examination or should he/she fail to win the board's recom-

mendation for graduation with honors, credit for 6 semester hours work with the grade assigned by the sponsor will still be given, although without reference to honors.

Examinations

Written examinations are given during a designated period at the end of each semester to every student enrolled in each course at the College. These are each three hours in length.

During the five-day period which precedes semester examinations, there will be no major tests, reports, field trips, or other activities which might in any way interfere with students' preparation for examinations.

Re-examinations are not permitted for freshmen, sophomores, or juniors. A senior student is permitted one re-examination during the senior year. This may be in either the first or second semester. A fee of five dollars is assessed for this re-examination. Seniors taking advantage of this option must have the Registrar's permission before the re-examination will be given.

Transfer of Credits

The College accepts, on transfer, credits of acceptable grades earned in other accredited colleges and universities provided such credits may be applied toward the requirements for a degree in this institution. Grades earned at other institutions will be recorded at Longwood College in terms of semester hours of credit earned if the transfer grade is "C" or better. Transfer credits of a grade quality below "C" are not accepted.

The cumulative quality point average of each student will be calculated on work taken only at Longwood. Transfer credit accepted from other institutions will be used to reduce the number of credits required for graduation, but will not enter into the calculation of the quality point average. The sole exception to this rule occurs when a student applies for graduation. At that time, the grades for all credits offered for a degree, including transfer work, will be computed to determine the overall academic average for all degree work to determine academic honors earned.

Not more than fourteen semester hours of correspondence course credit

and not more than thirty semester hours of extension class and correspondence study combined may be credited toward a degree. **WARNING:** *Correspondence courses should not be started after the beginning of the senior year, and must be completed and documented by no later than December 5 of the senior year, since failure to complete correspondence work is a frequent cause of failure to meet graduation requirements.* The College does not accept on transfer, credits earned through correspondence courses in the natural and physical sciences and certain other subjects. Students must obtain approval to include in their degree program correspondence and extension courses prior to enrolling in them. Otherwise, the College can assume no responsibility for accepting such grades on transfer.

The College cannot grant a student permission to enroll in a correspondence or extension course until after the student has attended this institution for at least one full summer session or a semester of the regular session.

When a student is enrolled in the College and enrolls also in a correspondence or extension course, the credit to be earned in the course will be counted in the total load of work that the student is permitted to carry.

Graduation Requirements

The College awards the bachelor's degree to a student who has fulfilled the following requirements:

1. Completion of all study required in one of the six degree programs offered.

2. *For majors that do not require field experiences:* completion of a course of study giving a minimum of 126 semester hours of credit with a minimum general average of "C" in all work taken and a minimum general average of "C" in courses taken in the major subject or field.
3. *For majors that require field experiences:* completion of a course of study giving a minimum of 128 semester hours of credit with a minimum general average of "C" in all work taken and a minimum general average of "C" in courses taken in the major subject or field.
4. All students must demonstrate swimming proficiency. Students may either pass the College swimming test, or pass a swimming course to fulfill this requirement.
5. Removal of communication condition, if any.
6. Attendance as a student for at least one session consisting of two semesters (minimum of 30 credit hours), including the last semester immediately preceding graduation. (One nine or ten week summer session in which the student carries a full load of courses may be substituted for one semester, but no student can be graduated on the basis of summer work alone.)
7. Not more than fourteen hours by correspondence nor more than thirty hours by correspondence and/or extension.
8. The maximum length of residence within which the requirements for a degree must be met is ten semesters.
9. Approval of the individual by the general faculty as a worthy candidate for graduation.

10. An *Application for Graduation* must be filed with the Registrar at least one full year prior to the date of graduation.

It is solely the responsibility of the candidate for graduation to meet all of the above requirements, including the completion of 126 or 128 semester hours of work, whichever is appropriate.

Class Attendance

Students are expected to attend all classes. Failure to attend class regularly may impair academic performance and the student must assume full responsibility for any loss incurred because of absence. Instructors may require explanations for class absences, and they will decide whether these explanations justify permitting the student to make up the work.

Instructors are requested to permit students to make up work missed when the absence has resulted from [1] illness, [2] the student's participation in a College-sponsored activity, or [3] recognizable emergencies.

English Proficiency

All students are encouraged to increase their proficiency in the oral and written use of the English language. Students not proficient in English may receive a communication condition from the Office of the Dean of the College. Any student placed under communication condition may not graduate unless improved proficiency is demonstrated by examination.

GENERAL EDUCATION REQUIREMENTS

A total of 48 semester hours in General Education is required for each degree, except the Bachelor of Arts and the Bachelor of Fine Arts which require 51. All students must take English 100, 101 and Health Education 100. Some degree of freedom may be exercised by the student in choosing the other hours of General Education requirements. HOWEVER, STUDENTS ARE URGED TO CONSULT WITH THEIR ACADEMIC ADVISER AND WITH THE DEPARTMENTAL DESCRIPTION OF THEIR RESPECTIVE MAJORS TO DETERMINE SPECIFIC GENERAL EDUCATION COURSES THAT MAY BE PRESCRIBED BY THE DEPARTMENT. The five areas which comprise the General Education program are as follows: for the degrees of Bachelor of Science, Bachelor of Science in Business Administration, Bachelor of Science in Business Education, and Bachelor in Music Education — Humanities, 18 semester hours; Social Science, 12 semester hours; Natural Sciences, 8 semester hours; Mathematics and Computer Science, 6 semester hours; and Health and Physical Education, 4 semester hours; for the degree of Bachelor of Arts and Bachelor of Fine Arts—Humanities, 21 semester hours; Social Sciences, 12 semester hours; Natural Science, 8 semester hours; and Health and Physical Education, 4 semester hours.

1. HUMANITIES

A. *Bachelor of Arts, Bachelor of Fine Arts*

English 100, 101/6 credits
Art, Music or Dramatic Arts/6 credits

Literature (may be English or Foreign Language literature)/3 credits

Humanities Elective (literature, philosophy or religion)/3 credits

Foreign Language at the 200 level or above/3 credits

TOTAL/21 credits

B. *All Other Degrees*

English 100, 101/6 credits
Art, Music or Dramatic Arts/6 credits

Literature (may be English or Foreign Language literature)/3 credits

Humanities Elective (literature, philosophy, religion, music, art, dramatic arts, foreign language or psychology*)/3 credits

TOTAL/18 credits

(*Humanities elective may not include Psychology 240 or 250.)

2. SOCIAL SCIENCE

American History 121 or 122/3 credits

At least two of the following: Anthropology, Economics, Geography, Government, History, Sociology/9 credits

TOTAL/12 credits

3. NATURAL SCIENCE

*Biological Science (biology, botany, zoology)/4 credits

*Physical Science (astronomy, chemistry, geology, physical science, physics)/4 credits

TOTAL/8 credits

(*Or two courses, at least one of which must be at the 200 level, in either biological science or physical science.)

4. MATHEMATICS

Mathematics or Computer Science/6 credits

5. HEALTH & PHYSICAL EDUCATION

Health Education 100/1 credit

Physical Education Activity Courses/3 credits

TOTAL/4 credits



TEACHER EDUCATION REQUIREMENTS

Those students preparing to teach will take the sequence of courses in Teacher Education. The specified courses to be completed by prospective elementary education teachers are as follows:

Psychology 240, 250/6 credits
Education 453 or 454/3 credits
Education 480, 482, 484, 486, 488/8 credits
Education 400 or 401/10 credits
TOTAL/27 credits

Furthermore, the student majoring in elementary education must take the additional courses indicated by the Department of Education and Psychology listed in this catalog.

The specified courses to be completed by prospective secondary education teachers are as follows:

Psychology 250/3 credits
Education 455/3 credits
Education 480, 482, 484, 486, 488/8 credits
Education 402, 403, 404 or 405/10 credits
TOTAL/24 credits



ACADEMIC DEPARTMENTS

DEPARTMENT OF ART

Barbara L. Bishop, *Chairman*

The Department of Art at Longwood College occupies the Bedford Art Building, one building in the Fine Arts Complex. The building contains eight multi-purpose studios, an outdoor work area, an exhibition gallery, and an auditorium seating 176.

The primary educational objective of the Department of Art is to provide quality baccalaureate degree programs in art education and the fine arts, with concentrations in Art History or Studio; to offer a variety of courses that fulfill general education requirements; and to provide specialized courses for elementary, home economics, and therapeutic recreation majors, as well as students pursuing study in the field of communications. The curriculum includes all of the major visual arts and Art History.

While a foundation in art techniques, theory, and art history is essential, creative experimentation and concept development are encouraged. Students may choose a field of specialization or concentration, form their own concepts, and develop individual methods. The Department of Art emphasizes the humanities and aesthetic judgment, the development of personal expression, and the relationship of the content of art in the nature of learning and human development essential for a liberal education.

The Art Department also provides aesthetic and cultural enrichment opportunities for the academic community through lectures, workshops, and demonstrations by well-known artists and art educators, presents exhibits of student and professional work in three separate galleries, and offers opportunities for members of the community to take courses in studio art, art education, and Art History. The department also supports and encourages aesthetic opportunities such as those offered by the departments of Music and Dramatic Arts, as well as programs sponsored by the area chapter of the Virginia Museum.

The following courses are acceptable for fulfillment of general education requirements for all students except art education majors: Art 110, 120, 130, 131, 155, 160, 213, 214, 215, 221, 223, 224, 250, 251, 256, 257, 258, 261, 262, 270, 271, 311, 313, 351, 355, 357, 362, 363, 364, 366, 367, 368, 369, 381, 401, 402, 403, 411, 413, 414, 415, 416, 417, 418, if prerequisites are met as specified in course descriptions, except Art 341, 441, and 442, 443, 444, 445, and 446.

The following one credit courses are also acceptable for fulfillment of general education requirements: Art 310, 314, 316, 317, 318, 320, 321, 322, 323, 324, 352, 358, 359, and 370.

Freshman, sophomore, and transfer art majors are required to present a specified number of their works for review by a committee of the art faculty. The interview procedure takes place in the second semester.

Junior art education and studio majors are required to present an annual exhibition of their work completed at Longwood College. Students who are concentrating in Art History have the option of exhibiting their studio work if they so desire. Students concentrating in Art History must present a public lecture in their senior year.

The Art Department staff reserves the privilege of retaining student work to be used for educational purposes.

Field trips in some lecture and studio classes involve nominal cost for the students. Also, students may be required to furnish all supplies and tools needed in various studio classes. Estimated costs for all classes are on file in the Financial Aid Office and Art Department Office.

FACULTY

Mark S. Baldridge, *Associate Professor*
B.S., State University College at Buffalo;
M.F.A., Cranbrook Academy of Art

Barbara L. Bishop, *Professor and Chairman*

B.S., Longwood College; M.F.A., University of North Carolina/Greensboro

Randall W. Edmonson, *Instructor*

B.A., Drury College; M.A., University of Missouri; M.F.A., Southern Illinois University

Elisabeth L. Flynn, *Associate Professor*

B.A., Manhattanville College; M.A., Loyola University; Ph.D., Northwestern University

Mary Virginia Mitchell, *Assistant Professor*

B.S., Bob Jones University; M.A.Ed., University of Georgia

Charlotte Schrader-Hooker, *Professor of Film Studies*

B.A., M.A., Texas Woman's University; Ph.D., Tulane University; M.A., New York University

Homer L. Springer, Jr., *Associate Professor*

B.F.A., Richmond Professional Institute; M.Ed., Towson State College

Conway B. Thompson, *Assistant Professor*

B.A., Mary Washington College; C.F.A., Cooper Union; M.F.A., University of Guanajuato, Mexico

COURSE REQUIREMENTS

The department offers majors in Art and Art Education (Teacher Certification). Art majors earn a Bachelor of Fine Arts degree; Art Education (Teacher Certification) majors earn either a Bachelor of Arts or a Bachelor of Science degree. Art majors may concentrate in either Art History or Studio Art.

BA or BS DEGREE Leading to Teacher Certification

General Education Requirements

Dramatic Arts or Music/6 credits
English 100, 101/6 credits
Foreign Language at the 200-level/3 credits (BA Degree)
Literature/3 credits
Humanities/3 credits (BS Degree)
Literature, Philosophy*, or Religion/3 credits (BA Degree)
History 121 or 122/3 credits
Social Science/9 credits
Biological Science/4 credits
Physical Science/4 credits
Mathematics or Computer Science/6 credits
Health Education 100/1 credit
Physical Education Activity Courses/3 credits
TOTAL/51 credits for BA Degree
/48 credits for BS Degree
(*Philosophy 350 recommended)

*Major Requirements***

Art 120/3 credits
Art 130, 131/6 credits
Art 213/3 credits
Art 250, 251/6 credits
Art 261, 262/6 credits
Art 270, 271/6 credits
Art 311 or 313/3 credits
Art 361, 362, 363, 364, 366, 367, 368, or 369/3 credits
Art 381, 382/6 credits
Art 441/3 credits
TOTAL/45 credits
(*Art 442 [3 credits] is required if endorsement in Elementary School Art Education is desired.)

The following courses must be taken for teaching certification:

Psychology 250/3 credits
Education 455/3 credits
Education 402, 480, 482, 484, 486, 488/18 credits
TOTAL/24 credits

ELECTIVES

BA Degree/8 credits
BS Degree/11 credits

NOTE: 128 hours are required for graduation, with a cumulative average of 2.0, and a 2.0 average in all major courses.

See *An Overview of General Education Requirements* for specific restrictions.

BFA DEGREE ART HISTORY CONCENTRATION

General Education Requirements

Dramatic Arts or Music/6 credits
English 100, 101/6 credits
Foreign Language at the 200-level/3 credits
Literature/3 credits
Literature, Philosophy/3 credits
History 121 or 122/3 credits
Social Science/9 credits
Biological Science/4 credits
Physical Science/4 credits
Mathematics or Computer Science/6 credits
Health Education/1 credit
Physical Education Activity Courses/3 credits
TOTAL/51 credits
(*Philosophy 350 recommended)

Major Requirements

(a) STUDIO
Art 120/3 credits
Art 223/3 credits
Art 130/3 credits
Art 270/3 credits
TOTAL/12 credits
(b) ART HISTORY
Art 261, 262/6 credits
Art 361, 362, 363, 364, 366, 367, 368, or 369/15 credits
Art 461/3 credits
TOTAL/24 credits
(c) ELECTIVES in ART STUDIO or ART HISTORY/9 credits
TOTAL ART REQUIREMENTS and ELECTIVES/45 credits

Electives/30 credits

NOTE: 126 hours are required for graduation, with a cumulative average of 2.0, and a 2.0 average in all major courses.

See *An Overview of General Education Requirements* for specific restrictions.

**BFA DEGREE
STUDIO CONCENTRATION**

General Education Requirements

Dramatic Arts or Music/3 credits
Art/3 credits
English 100, 101/6 credits
Foreign Language at the 200-level/
3 credits
Literature/3 credits
Literature, Philosophy*, or Religion/
3 credits
History 121 or 122/3 credits
Social Science/9 credits
Biological Science/4 credits
Physical Science/4 credits
Mathematics or Computer Science/
6 credits
Health Education 100/1 credit
Physical Education Activity Courses/
3 credits
TOTAL/51 credits
(*Philosophy 350 recommended)

See *An Overview of General Education Requirements* for specific restrictions.

Major Requirements

- (a) FOUNDATIONS
Art 261, 262/6 credits
Art 361, 362, 363, 364, 366, 367,
368, or 369/3 credits
Art 120/3 credits
Art 130, 131/6 credits
Art 223/3 credits
TOTAL/21 credits
(b) FIELD OF CONCENTRATION**/
18 credits
(c) ELECTIVES in ART STUDIO or
ART HISTORY/18 credits
TOTAL REQUIREMENTS & ELECTIVES
in ART/60 credits (including 3 credits
in general education)

Electives (general)/18 credits

MINOR IN ART HISTORY

- (a) Art 160/3 credits OR
Art 461/3 credits
(b) Art 261 and 262/6 credits
(c) Art History courses at 300-level/
9 credits
TOTAL/18 credits

FIELD OF CONCENTRATION

Printmaking & Graphic Design

Art 221/3 credits
Art 250, 251/6 credits
Art 351/3 credits
Art 355/3 credits
Art 450 or 430/3 credits
TOTAL/18 credits

Painting

Art 250/3 credits
Art 270, 271/6 credits
Art 471, 472/6 credits
Art 430/3 credits
TOTAL/18 credits

Drawing

Art 221/3 credits
Art 250, 251/6 credits
Independent Studios in Drawing/
9 credits
TOTAL/18 credits

Crafts

Art 110/3 credits
Art 213/3 credits
Art 215/3 credits
Art 311/3 credits
Art 313/3 credits
Art 351/3 credits
TOTAL/18 credits

Sculpture

Art 381, 382/6 credits
Art 250, 251/6 credits OR
Art 213 & 313/6 credits
Independent Studios in Sculpture/
6 credits
TOTAL/18 credits

NOTE: 126 hours are required for graduation, with a cumulative average of 2.0, and a 2.0 average in all major courses.

MINORS

MINOR IN GENERAL ART

- (a) Art 120/3 credits
(b) Art 130/3 credits
(c) Art 223/3 credits OR
Art 224/3 credits
(d) Art 250, 251, 270 OR 271/3 credits
(e) Art 155, 256, 355, OR 357/3 credits
(f) Art 110, 213, 215, 311 OR 313/3 credits
(g) Art 160, 261, 262, OR any 300-level Art
History course/3 credits
TOTAL/21 credits

DEPARTMENT OF BUSINESS AND ECONOMICS

John E. Carr III, *Chairman*

The Department of Business and Economics offers courses leading to the Bachelor of Science in Business Administration, the Bachelor of Science in Business Education, and the Bachelor of Science with a major in Office Administration. These programs and degrees qualify students for careers in business and to teach business subjects in secondary schools.

For those entering the teaching profession, the department offers courses that lead to specific teaching endorsements in Stenography and General Office Procedures.

FACULTY

James M. Caleb, *Assistant Professor*
B.S., University of Wyoming; M.B.A.,
Sam Houston State University

John E. Carr III, *Professor and Chairman*
B.S., The Citadel; M.B.A., Syracuse
University

Anthony B. Cristo, *Professor*
B.A., University of Maine; M.B.A.,
University of Pennsylvania; Ph.D.,
Duke University

Owen F. Fields, *Assistant Professor*
B.S., Waynesburg College; M.Ed., Ed.D.,
University of Pittsburgh

Raymond Gilchrist, *Associate Professor*
B.S., University of Maryland; M.B.A.,
Syracuse University

Frances N. Hamlett, *Assistant Professor*
B.S., Longwood College; M.S., Virginia
Polytechnic Institute

James M. Irby, IV, *Instructor*
B.S., University of Richmond; M.S.,
Virginia Commonwealth University;
CPA

Willard G. Leeper, *Associate Professor*
B.S., Longwood College; M.Ed., Uni-
versity of Florida

Donald G. McCort, *Assistant Professor*
B.B.A., Washburn University; B.S.I.E.,
Texas Technological College; M.B.A.,
University of Missouri

Richard F. Measell, *Instructor*
B.A., Furman University; M.A., Uni-
versity of Maryland

Mary J. Noblitt, *Assistant Professor*
B.S., Radford College; M.S., Uni-
versity of Tennessee

****B S DEGREE IN BUSINESS ADMINISTRATION** *Accounting Concentration*

General Education Requirements
Art, Music or Dramatic Arts/6 credits
English 100, 101/6 credits
Literature/3 credits
Humanities Elective/3 credits
Social Science Elective/3 credits
History 121 or 122/3 credits
Economics 231, 232/6 credits
Biological Science/4 credits
Physical Science/4 credits
Mathematics 111, 113/6 credits
Health Education 100/1 credit
Physical Education Activity Courses/3 credits
TOTAL/48 credits

Department Requirements
Business 151/3 credits
Business 152/3 credits
Business 220/3 credits
Business 241-242/6 credits
Business 351, 352/6 credits
Business 356/3 credits
TOTAL/24 credits

*Major Requirements — 18 semester hours
from the following:*
Business 322/3 credits
Business 323-324/6 credits
Business 325/3 credits
Business 326/3 credits
Business 474/3 credits
Business 475/3 credits

Business 400/16 credits*
*General electives/20 credits (if participation
in Business 400) NOTE: 128 credits required
for graduation.
*General electives/36 credits (if student does
not participate in Business 400) NOTE: 126
credits required for graduation.

****B S DEGREE IN BUSINESS ADMINISTRATION** *Finance Concentration*

General Education Requirements
Art, Music, or Dramatic Arts/6 credits
English 100, 101/6 credits
Literature/3 credits
Humanities Elective/3 credits
History 121 or 122/3 credits
Economics 231, 232/6 credits
Social Science Elective/3 credits
Biological Science/4 credits
Physical Science/4 credits
Mathematics 111, 113/6 credits
Health Education 100/1 credit
Physical Education Activity Courses/3 credits
TOTAL/48 credits

Department Requirements
Business 151/3 credits
Business 152/3 credits
Business 220/3 credits
Business 241-242/6 credits
Business 351-352/6 credits
Business 356/3 credits
TOTAL/24 credits

Major Requirements
Business 340/3 credits
Business 341/3 credits
Business 383/3 credits
Business 455/3 credits
Economics 355/3 credits
Economics 358/3 credits
TOTAL/18 credits

Business 400/16 credits*
*General electives/22 credits (if participation
in Business 400)
*General electives/36 credits (if student does
not participate in Business 400)

****B S DEGREE IN BUSINESS ADMINISTRATION**
Management Concentration

General Education Requirements

Art, Music, or Dramatic Arts/6 credits
English 100, 101/6 credits
Literature/3 credits
Humanities Elective/3 credits
History 121 or 122/3 credits
Mathematics 111, 113/6 credits
Economics 231-232/6 credits
Social Science Elective/3 credits
Biological Science/4 credits
Physical Science/4 credits
Health Education 100/1 credit
Physical Education Activity Courses/3 credits
TOTAL/48 credits

Department Requirements

Business 151/3 credits
Business 152/3 credits
Business 220/3 credits
Business 241-242/6 credits
Business 351, 352/6 credits
Business 356/3 credits
TOTAL/24 credits

Major Requirements

Business 257/3 credits
Business 259/3 credits
Business 357/3 credits
Business 456/3 credits
Business 481/3 credits
Psychology 359/3 credits
TOTAL/18 credits

Business 400/16 credits*

*General electives/22 credits (if participation in Business 400)

*General electives/36 credits (if student does not participate in Business 400)

****B S DEGREE IN BUSINESS ADMINISTRATION**
Marketing Concentration

General Education Requirements

Art, Music, or Dramatic Arts/6 credits
English 100, 101/6 credits
Literature/3 credits
Humanities Elective/3 credits
Economics 231-232/6 credits
History 121 or 122/3 credits
Social Science Elective/3 credits
Biological Science/4 credits
Physical Science/4 credits
Mathematics 111, 113/6 credits
Health Education 100/1 credit
Physical Education Activity Courses/3 credits
TOTAL/48 credits

Department Requirements

Business 151/3 credits
Business 152/3 credits
Business 220/3 credits
Business 241-242/6 credits
Business 351, 352/6 credits
Business 356/3 credits
TOTAL/24 credits

Major Requirements — 18 semester hours from the following:

Business 228/3 credits
Business 259/3 credits
Business 328/3 credits
Business 357/3 credits
Business 454/3 credits
Business 481/3 credits
Mathematics 271/3 credits

Business 400/16 credits*

*General electives/22 credits (if participation in Business 400)

*General electives/36 credits (if student does not participate in Business 400)

****NOTE:** While specific concentrations are available to the student, provision has also been made for a general B.S.B.A. with no specific concentration required. The student not concentrating in only one area must take at least 9 credit hours at the 300-400 level.

OFFICE ADMINISTRATION MAJOR
B S DEGREE

General Education Requirements

Art, Music, or Dramatic Arts/6 credits
English 100, 101/6 credits
Literature/3 credits
History 121 or 122/3 credits
Economics 231-232/6 credits
Social Science Elective (not Economics)/3 credits
Biological Science/4 credits
Physical Science/4 credits
Mathematics 111, 113/6 credits
Health Education 100/1 credit
Physical Education Activity Courses/3 credits
Psychology 359/3 credits
TOTAL/48 credits

Major Requirements

Business 121, 221, 222*/9 credits
Business 131, 231, 232*/9 credits
Business 151, 152/6 credits
Business 220/3 credits
Business 241-242/6 credits
Business 252/3 credits
Business 257/3 credits
Business 322/3 credits
Business 351, 352/6 credits
Business 356/3 credits
Business 453/3 credits
Business 460/3 credits
Marketing or Finance Elective/3 credits
TOTAL/60 credits

General Electives/18 credits

(*Six hours of typewriting and shorthand requirements may be omitted on the basis of proficiency.)

NOTE: 126 hours are required for graduation with a cumulative average of 2.0, and a 2.0 average in all major courses.

B S DEGREE IN BUSINESS EDUCATION
Stenography Endorsement

General Education Requirements

Art, Music, or Dramatic Arts/6 credits
English 100, 101/6 credits
Literature/3 credits
Humanities Elective/3 credits
History 121 or 122/3 credits
Economics 231-232/6 credits
Social Science Elective(not Economics)/3 credits
Biological Science/4 credits
Physical Science/4 credits
Mathematics 111, 113/6 credits
Health Education/1 credit
Physical Education Activity Courses/3 credits
TOTAL/48 credits

Major Requirements¹

Business 121, 221, 222*/9 credits
Business 131, 231, 232*/9 credits
Business 151, 152/6 credits
Business 220/3 credits
Business 228/3 credits
Business 241-242/6 credits
Business 252/3 credits
Business 351/3 credits
Business 356/3 credits
Business 453/3 credits
TOTAL/48 credits

(*Six hours of the typewriting and shorthand requirements may be omitted on the basis of proficiency. If any one of these courses is omitted, student should take Business 400, Model Office, during the junior or senior year.)

The following courses must be taken for teaching certification:

Psychology 250/3 credits
Education 455/3 credits
Business 451, 452/6 credits
Education 402, 482, 484, 486, 488/18 credits
TOTAL/30 credits

General Electives/2 credits

(Endorsement to teach basic business, office procedures, recordkeeping, shorthand, and typewriting.)

NOTE: 128 hours are required for graduation, with a cumulative average of 2.0, and a 2.0 average in all major courses.

¹Students must successfully complete all required major courses before enrolling in student teaching.

B S DEGREE IN BUSINESS EDUCATION
General Office Procedures Endorsement

General Education Requirements

Art, Music, or Dramatic Arts/6 credits
English 100, 101/6 credits
Literature/3 credits
Humanities Elective/3 credits
History 121 or 122/3 credits
Economics 231, 232/6 credits
Social Science Elective (not Economics)/3 credits
Biological Science/4 credits
Physical Science/4 credits
Mathematics 111, 113/6 credits
Health Education 100/1 credit
Physical Education Activity Courses/3 credits
TOTAL/48 credits

Major Requirements¹

Business 121, 221, 222*/9 credits
Business 151, 152/6 credits
Business 220/3 credits
Business 228/3 credits
Business 241-242/6 credits
Business 252/3 credits
Business 322/3 credits
Business 325/3 credits
Business 351/3 credits
Business 356/3 credits
Business 453/3 credits
Business 460/3 credits
TOTAL/48 credits

(*Six hours of typewriting requirements may be omitted on the basis of proficiency.)

The following courses must be taken for teaching certification:

Psychology 250/3 credits
Education 455/3 credits
Business 451, 452/6 credits
Education 402, 480, 482, 484, 486, 488/18 credits
TOTAL/30 credits

General Electives/2 credits

(Endorsement to teach accounting, basic business, office procedures, and typewriting.)

NOTE: 128 hours are required for graduation, with a cumulative average of 2.0, and a 2.0 average in all major courses.

¹Students must successfully complete all required major courses before enrolling in student teaching.

MINOR IN BUSINESS ADMINISTRATION

Students desiring a minor in Business Administration must successfully complete 23 semester hours of Business Administration courses as outlined below. The student must make an appointment with the Chairman, Department of Business and Economics, for advising before pursuing this minor.

Required Courses

Business 151/3 credits
Business 241-242/6 credits
Business 231, 232/6 credits
Economics 231- 232/6 credits
Business Electives*/6 credits
TOTAL/21 credits

***Must select two (2) of the following courses:**

Business 152/3 credits
Business 220/3 credits
Business 228/3 credits
Business 340/3 credits
Business 356/3 credits

DEPARTMENT OF EDUCATION AND PSYCHOLOGY

Charles H. Patterson, *Chairman*

The Department of Education and Psychology offers undergraduate majors in two fields, elementary education and psychology. A minor is also available in psychology. Graduate programs are available in elementary education, supervision, counselor education and reading. Students interested in the graduate program should consult the Graduate Bulletin of Longwood College.

The undergraduate major in elementary education is divided into two patterns:

(A) N, K-3

Pattern A leads to specialization and certification endorsement for the Nursery School, Kindergarten, and Grades 1, 2, and 3. A student selecting this pattern as a major will also select an area of emphasis in one of three areas of concentration: (1) an interdisciplinary concentration; (2) an additional certification endorsement in library science; or (3) an additional certification endorsement as a reading teacher.

(B) UPPER ELEMENTARY 4-7

Pattern B leads to specialization and certification endorsement for Grades 4, 5, 6, and 7. In addition, a student selecting this pattern as a major will select an area of emphasis in one of eight areas of concentration. These are: (1) an interdisciplinary concentration; (2) an additional certification endorsement as a reading teacher; (3) an additional certification endorsement in library science; (4) an English education endorsement and/or concentration; (5) a foreign language endorsement and/or concentration; (6) an earth science-general science endorsement and/or concentration; (7) a pre-algebra mathematics endorsement and/or concentration; and (8) a history or social studies endorsement and/or concentration. Students seeking certification endorsement programs in areas 3-8 will have to complete an additional five week practicum in student teaching.

Students will normally be expected to select a pattern and an area of emphasis at the beginning of the sophomore year.

FACULTY

John E. Arehart, *Assistant Professor*
B.A., Southwestern at Memphis; M.Ed.,
Ed.D., University of Virginia

Robert L. Banton, III, *Professor*
B.A., Randolph-Macon College; M.Ed.,
Ed.D., University of Virginia

R. Beatrice Bland, *Professor*
B.S., Longwood College; M.A., Colum-
bia University; Ed.D., University of
Virginia

Charles J. DeWitt, *Associate Professor*
B.A., University of Virginia; M.S.,
Longwood College; Ed.D., Univer-
sity of Virginia

George P. Elliott, *Associate Professor*
B.S., M.S., Longwood College

Robert D. Gibbons, *Professor*
B.A., M.Ed., College of William and
Mary; Ed.D., University of Virginia

Joseph Jack Horvat, Jr., *Instructor*
B.A., Fort Lewis College; M.A., Ph.D.,
University of Nebraska

Louis Kovacs, *Associate Professor*
B.A., Emory and Henry College; M.Ed.,
Southern Methodist University; Ed.D.,
University of Tennessee

Charles H. Patterson, Jr., *Board of Visitors*
Distinguished Professor and Chairman
B.S., M.A., Ed.D., University of Virginia

Jung B. Ra, *Associate Professor*
B.A., Teachers' College, Kyong Puk Uni-
versity; M.A., Texas Women's University;
Ph.D., University of Iowa

James G. Silliman, *Assistant Professor*
B.A., Emory and Henry College; M.A.,
Virginia Polytechnic Institute and
State University

Betty W. Simmons, *Assistant Professor*
B.A., M.S., Longwood College

Madeline L. Simpson, *Assistant Professor*
B.A., Fisk University; M.S., Boston
University; M.A., New School for
Social Research

Ray B. Sizemore, *Associate Professor*
B.S., M.Ed., North Carolina State Uni-
versity; Ed.D., University of North
Carolina at Chapel Hill

Edward D. Smith, *Associate Professor*
B.A., Heidelberg College; M.A., Uni-
versity of Hawaii; Ph.D., Kent State
University

Edwin H. Vassar, *Associate Professor and*
Director of Student Teaching
B.S., Virginia Polytechnic Institute;
M.S., Longwood College

Nancy H. Vick, *Assistant Professor and*
Director of the Bureau of Teaching
Materials
B.S., East Carolina University; M.Ed.,
College of William and Mary; Ed.D.,
Indiana University

Phyllis G. Wacker, *Associate Professor*
B.A., Westhampton College; M.A., Uni-
versity of Richmond

Mark G. Weatherly, *Associate Professor*
B.S., M.Ed., Ed.D., University of Virginia

Mary Stuart Woodburn, *Associate Professor*
B.S., Madison College; M.Ed., Univer-
sity of Virginia

COURSE REQUIREMENTS

The department offers majors in elementary education (NK-3 or 4-7) and psychology. Students majoring in either of these areas earn a Bachelor of Science degree.

ELEMENTARY EDUCATION MAJOR B S DEGREE

General Education Requirements for Patterns I and II

- | | | | |
|-----------------------------|-----------|---|-----------|
| 1. <i>Humanities</i> | | 3. <i>Natural Sciences</i> | |
| English 100, 101 | 6 credits | Biology 102 or 103 | 4 credits |
| English literature elective | 3 credits | Earth Science 102 | 4 credits |
| Music 340 | 3 credits | | |
| Art 341 | 3 credits | 4. <i>Mathematics</i> | |
| English 282 | 3 credits | Mathematics 123, 124 | 6 credits |
| 2. <i>Social Sciences</i> | | 5. <i>Health & Physical Education</i> | |
| American History 121 or 122 | 3 credits | Health Education 100 | 1 credit |
| History 111, 112 | 6 credits | Health & Physical Education 360 | 3 credits |
| Economics 202 | 3 credits | | |

General Certification Requirements for Patterns I and II

- | | | | |
|--------------------------|-----------|------------------------------------|-----------|
| 1. <i>Language Arts</i> | | 5. <i>Science</i> | |
| Education 225 | 3 credits | Science 362 | 3 credits |
| English 280 | 3 credits | | |
| Speech 101 | 3 credits | 6. <i>Physical Education</i> | |
| 2. <i>Reading</i> | | Physical Education Activity | |
| Education 325, 429 | 6 credits | Course electives | 2 credits |
| 3. <i>Social Science</i> | | 7. <i>Developmental Psychology</i> | |
| Geography 201 | 3 credits | Psychology 240, 250 | 6 credits |
| 4. <i>Mathematics</i> | | | |
| Mathematics 323 | 3 credits | | |

Professional Requirements for Certification

- | | | | |
|----------------------------------|-----------|--|------------|
| 1. <i>Methodology</i> | | 2. <i>Professional Semester Including Student Teaching</i> | |
| Education 453 (for N,K-3 majors) | 3 credits | Education 400 (N,K-3 only) | 10 credits |
| Education 454 (for 4-7 majors) | 3 credits | Education 401 (4-7 only) | 10 credits |
| | | Education 480, 482, 484, 486, 488 | 8 credits |

Areas of Concentration

- | | | | |
|--|------------|--|------------|
| 1. <i>Interdisciplinary Major</i> | | 4. <i>English Concentration</i> | |
| Art | 3 credits | English 120, 121, 140, 141, 415 | 15 credits |
| Music | 3 credits | English elective courses | 6 credits |
| Geography | 3 credits | General elective courses | 6 credits |
| Biology 102 or 103 | 4 credits | NOTE: Students seeking certification endorsement will also register for Education 404, 455 (8 credits). | |
| Philosophy | 3 credits | | |
| Elective Courses | 11 credits | 5. <i>Modern Foreign Language Concentration</i> | |
| 2. <i>Reading Teacher Endorsement</i> | | A total of 30 credits of a specific language including beginning and intermediate and other courses which may have been taken prior to college study (30 credits). | |
| Education 525, 526, 527, 530 | 15 credits | NOTE: Students seeking certification endorsement will also register for Education 404, 455 (8 credits). | |
| English 281 | 3 credits | | |
| Elective Courses | 9 credits | | |
| 3. <i>Library Science Endorsement</i> | | | |
| Library Science 280, 281, 301, 302, 401, 402 | 18 credits | | |
| Education 485 | 3 credits | | |
| Education 405 | 5 credits | | |
| Elective | 1 credit | | |

6. *Earth Science-General Science Concentration*

Earth Science 210, 211 (Geology)	8 credits
Earth Science 200 (Astronomy)	4 credits
Geography 251, 252	6 credits
Earth Science 311 (Oceanography)	4 credits
Chemistry 101	4 credits
General Elective	2 credits

NOTE: Students seeking certification endorsement will also register for Education 404, 455 (8 credits).

7. *Pre-Algebra Mathematics Concentration*

Mathematics 114, 223	6 credits
Computer Science 101	1 credit
Mathematics Electives	6 credits
General Electives	14 credits

NOTE: Students seeking certification endorsement will also register for Education 404, 455 (8 credits).

8. *History or Social Studies Concentration*

(The student will select A, B, or C.)

A. *History*

History 122,305,355 or 336,465	12 credits
History Electives	6 credits
General Electives	9 credits

B. *Government*

Government 202, 215, 216, 341, 343, 350	18 credits
General Electives	9 credits

C. *Geography*

Geography 241,242,355,444	12 credits
Geography Electives	6 credits
General Electives	9 credits

NOTE: Students seeking certification endorsement in any one of the above history or social studies areas of concentration will also register for Education 404, 455 (8 credits).

NOTE: 128 hours are required for graduation with a cumulative average of 2.0, and a 2.0 average in all major courses.

**PSYCHOLOGY MAJOR
B S DEGREE**

General Education Requirements

Art, Music or Dramatic Arts/6 credits
English 100, 101/6 credits
Literature/3 credits
Philosophy 365/3 credits
History 121 or 122/3 credits
Economics or Government/3 credits
Sociology and/or Anthropology/6 credits
Mathematics/6 credits
Biology 101, 323/8 credits
Health Education 100/1 credit
Physical Education Activity Courses/3 credits
TOTAL/48 credits

Major Requirements

Psychology 131, 132, 134/9 credits
Psychology 361-362/6 credits
Psychology 420-421/6 credits
Psychology 457/3 credits
Psychology 461/3 credits
Psychology Electives/12 credits
TOTAL/39 credits

NOTE: 126 hours are required for graduation with a cumulative average of 2.0, and a 2.0 average in all major courses.

MINOR IN PSYCHOLOGY

A minor in psychology is offered by the Department of Education and Psychology. A minimum of 18 semester hours is required for this program. These include:

1. Psychology 131, 132	6 credits
2. Psychology 361 OR Psychology 420	3 credits

3. Three hours selected from 200 and 300 level courses including the following: Psychology 222 Psychology 240 Psychology 250 Psychology 356 Psychology 359 Psychology 331 Psychology 353

4. Three hours selected from 400 and 500 level courses including the following: Psychology 422 Psychology 423 Psychology 424 Psychology 457 Psychology 521* Psychology 523 Psychology 555**
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5. Three hours of electives selected from any of the courses above.

TOTAL	18 credits
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*Not to be selected *without the approval of the Chairman of the Department of Education and Psychology* if Psychology 240 or 250 is elected.

**Not to be selected *without the approval of the Chairman of the Department of Education and Psychology* if Psychology 420 is elected.

DEPARTMENT OF ENGLISH, PHILOSOPHY, AND FOREIGN LANGUAGES

Massie C. Stinson, Jr., *Chairman*

ENGLISH PROGRAM

The English faculty seeks to provide its majors a philosophy of language, a philosophy of literature, and skill in communication. English majors normally enter the B.A. degree program. Approval of the department chairman is required for students applying for a B.S. degree in English. The department also offers a M.A. degree.

The requirements for a major in English satisfy the Virginia Certification Regulations for Teachers, effective July 1, 1968, which state: "The requirements of a minimum of 30 semester hours shall include courses in English literature, American literature, language, and composition and should also include a course in advanced composition writing and a course in modern English grammar." Each English teaching major shall schedule a meeting with the departmental English Pre-Teaching Committee in the first semester of the sophomore year. The student will be assisted by the committee in evaluating his/her potential for teaching high school English.

For certification to teach Speech, Dramatic Arts, or Journalism as well as English, 6 additional semester hours in each field are required beyond the basic 30 semester hours in English. For Speech, the 6 additional hours may be obtained from any of the course offerings in Speech; for Dramatic Arts, the 6 hours must be obtained from the following: Dramatic Arts 201 and 202; for Journalism, English 110, 210, and either 211 or 212, and 296 satisfy the requirements.

NOTE: The department does not guarantee that all of the courses listed will be offered every year.

FACULTY

Martha E. Cook, *Associate Professor*
B.A., Maryville College; M.A., Ph.D.,
Vanderbilt University

Carolyn M. Craft, *Professor*
B.A., Agnes Scott College; M.A.,
Ph.D., University of Pennsylvania

Otis W. Douglas III, *Assistant Professor*
B.A., University of Richmond; M.A.,
Auburn University; M.F.A., University
of Iowa

Anita B. Ernout, *Professor*
B.A. Hunter College; M.A., Ph.D.,
Columbia University

William L. Frank, *Professor and
Coordinator of Institutional Grants*
B.A., M.Ed., University of Southern
Mississippi; M.A., Ph.D., Northwestern
University

Fillmer Hevener, Jr., *Associate Professor*
B.A., Columbia Union College; M.A.,
Madison College; Ed.D., University
of Virginia

Michael Lund, *Assistant Professor*
A.B., Washington University; M.A.,
Ph.D., Emory University

Anthony Maurice, *Assistant Professor*
B.A., Johns Hopkins University; M.A.,
Middlebury College; Ph.D., Duke
University

Susan H. May, *Professor*
B.A., Wellesley College; M.A., University
of Delaware; Ph.D., University of
Pennsylvania

Geoffrey C. Orth, *Assistant Professor*
B.A., Washington and Lee University;
M.A., Ph.D., University of Virginia

John S. Peale, *Associate Professor*
B.A., Washington and Lee University;
M.A., Boston University; M.Div., Union
Theological Seminary (NYC); Ph.D.,
University of North Carolina at Chapel
Hill

Helen B. Savage, *Associate Professor*
B.S., Jacksonville State College; M.A.,
Emory University

Ellery Sedgwick, *Instructor*
B.A., Harvard University; M.A.T.,
Columbia Teachers College; Ph.D.,
Boston University

Maria C. Silveira, *Associate Professor*
Maestro Normal, Escuela Normal de
Oriente; Licenciado y Dr. en Educacion
y Filosofia, Universidad de Oriente; M.A.,
Stephen F. Austin State College; Ph.D.,
University of Virginia

Jo Leslie Sneller, *Associate Professor*
B.A., M.A., Longwood College;
Ed.D., University of Virginia

Rosemary Sprague, *Board of Visitors
Distinguished Professor*
A.B., Bryn Mawr College; M.A.,
Ph.D., Western Reserve University
Massie C. Stinson, *Associate Professor
and Chairman*

B.A., M.A., University of Richmond;
Ph.D., University of South Carolina

Donald C. Stuart, *Associate Professor*
B.A., Hamilton College; M.A., Duke
University; Ph.D., University of
Virginia

Camilla C. Tinnell, *Instructor*
B.A., M.S., Radford College

David C. Vest, *Associate Professor*
A.B., Birmingham-Southern College;
M.A., Ph.D., Vanderbilt University

William C. Woods, *Assistant Professor*
B.A., George Washington University;
M.A., Johns Hopkins University

ENGLISH MAJOR B A DEGREE

General Education Requirements

Art, Music, or Dramatic Arts/6 credits
 English 100, 101/6 credits
 Foreign Language (200 level)/3 credits
 Literature/3 credits
 Humanities/3 credits
 History 121 or 122/3 credits
 Social Science/9 credits
 Science/8 credits
 Mathematics/6 credits
 Health Education 100/1 credit
 Physical Education Activity Courses/3 credits
 TOTAL/51 credits
 (NOTE: Art, Music, Dramatic Art requirement may also be met with 6 hours of the following English courses: 267, 268, 269, 524, 525, 527.)

NOTE: In connection with the European literature elective (360, 365, 366), English majors will take three hours in either History 111, 112 or Philosophy 215, 216 (whichever is appropriate to the literature elective).

Major Requirements

English 120 and 121/6 credits
 English 140, 141/6 credits
 *English Electives/18 credits
 TOTAL/30 credits
 *Electives courses: (choose 6) one course from English 360, 365, 366; one course from English 522, 523, 524, 525, 526; one course from English 320, 321, 322, 520, 527; three courses are free electives from departmental listings.

Students wishing to seek the B.S. degree must request permission of the department chairman.

The following courses must be taken for teaching certification:

English 282/3 credits
 English 480/3 credits
 Psychology 250/3 credits
 Education 455/3 credits
 Education 402, 480, 482, 484, 486, 488/18 credits
 TOTAL/30 credits

For additional certification to teach Speech:
 Speech Electives/6 credits

For additional certification to teach Dramatic Arts:

Dramatic Arts 201, 202/6 credits

For additional certification to teach

Journalism:

English 110, or 210, and 211 or 212, or 296/6 credits

NOTE: 126 hours are required for graduation, with a cumulative average of 2.0, and a 2.0 average in all major courses. If teaching certification is desired, 128 hours are required for graduation with a cumulative average of 2.0, and a 2.0 average in all major courses.

MINORS

In order to assist students who wish to take a series of courses in a single area of study, the Department of English presently offers the following minors:

MINOR IN ENGLISH

One complete survey from the following:
 English 120, 121; English 140, 141;
 English 160, 161
 One 500-level course
 English Electives/9 credits

MINOR IN COMMUNICATIONS

Two courses from English 110, 210, 296
 Two courses from Film Studies area
 Speech 311
 Communications Electives/6 credits
 TOTAL/21 credits

MINOR IN JOURNALISM

English 110, 210/6 credits
 English 296 or 243/3 credits
 Journalism Electives/9 credits
 TOTAL/18 credits

Journalism Electives must come from the following:

English 310	History 310
Art 155	Government 441
Art 221	Government 201
Speech 200	Sociology 221
Philosophy 320	Psychology 131
Speech 311	

COMMUNICATIONS

Although Longwood College does not offer a major in Communications, several academic departments do offer on a regular basis courses that parallel communication courses offered at other colleges and universities. Students who are interested in preparing for careers in journalism, the media, advertising, and public relations, and students who expect either to teach or to undertake graduate study in these and related areas, should include among their electives some of the following courses that would meet their career goals. The complete course description, including prerequisites if any, can be found under the individual department listing.

Communication 101. (Speech 101)
 Communication 110. (English 110)
 Communication 120. (Art 120)
 Communication 155. (Art 155)
 Communication 160. (Art 160)
 Communication 200. (Speech 200)
 Communication 205. (Computer Science 205)
 Communication 210. (English 210)
 Communication 211. (English 211)
 Communication 212. (English 212)
 Communication 220. (Business 220)
 Communication 221. (Art 221)
 Communication 256. (English 256)
 Communication 257. (English 257)
 Communication 258. (Art 258)
 Communication 296. (English 296)

Communication 301. (Library Science 301)
 Communication 311. (Speech 311)
 Communication 356. * (Business 356)
 Communication 400. (Library Science 400)
 Communication 454. (Business 454)
 Communication 547. (Education 547)

(*Students taking 356 should have previous typing experience or should take Business 121 prior to enrolling in 356.)

FOREIGN LANGUAGES PROGRAM

The Foreign Languages program offers courses in French, German, Latin, and Spanish. Majors may be taken in French or Spanish. Majors in these languages must complete 24 hours in the language beyond the intermediate course. These hours must include courses number 241, 242, 401, 402, and 12 additional hours. In French, six of these 12 hours must be in non-survey literature courses. In Spanish, of these 12 hours three hours each must be selected from the areas of Spanish-American Literature (331, 332, 431), Golden Age Literature (441, 442) and Modern Peninsular Literature (461, 462, 471, 472). Courses numbered 241, 242 are prerequisite to other literature courses in the language. Those preparing to teach must take the methods course. Supporting courses are recommended in the other humanities. Study of a second foreign language is strongly recommended.

LONGWOOD IN EUROPE awards six credits in French upon successful completion of its summer program. Credit may be earned in all French courses, excluding methods (400), the general survey of literature (241, 242), and the periods survey courses.

A student who plans to take courses abroad is required, in order to receive credit, to submit well in advance to the chairman of the department and to the Assistant Dean of the College a written statement describing the plan under which the student expects to study.

FRENCH MAJOR B A DEGREE

General Education Requirements

Art, Music or Dramatic Arts/6 credits
English 100, 101/6 credits
Foreign Language (200 level)/3 credits
Literature/3 credits
Literature, Philosophy, or Religion/3 credits
History 121 or 122/3 credits
Social Science/9 credits
Science/8 credits
Mathematics/6 credits
Health Education 100/1 credit
Physical Education Activity Courses/3 credits
TOTAL/51 credits

Major Requirements

French 241, 242/6 credits
Non-survey literature courses/6 credits
French 401, 402/6 credits
French Electives/6 credits
TOTAL/24 credits

French 100 and 110 may be by-passed totally or in part by advanced placement.

The following courses must be taken for teaching certification:

French 400/3 credits
Psychology 250/3 credits
Education 455/3 credits
Education 402, 480, 482, 484, 486,
488/18 credits
TOTAL/27 credits

A language major may certify in a second modern language by completing 24 hours in the second language. Twelve of these hours must be beyond the intermediate level. Advanced placement reduces proportionately the number of hours required by the Commonwealth of Virginia for certification.

NOTE: 126 hours are required for graduation with a cumulative average of 2.0, and a 2.0 average in all major courses. If teaching certification is desired, 128 hours are required for graduation with a cumulative average of 2.0, and a 2.0 average in all major courses.

SPANISH MAJOR B A DEGREE

General Education Requirements

Art, Music, or Dramatic Arts/6 credits
English 100, 101/6 credits
Foreign Language (200 level)/3 credits
Literature/3 credits
Literature, Philosophy or Religion/3 credits
History 121, 122/3 credits
Social Science/9 credits
Science/8 credits
Mathematics/6 credits
Health Education 100/1 credit
Physical Education Activity Courses/3 credits
TOTAL/51 credits

Major Requirements

Spanish 241, 242/6 credits
Spanish 331 or 332 or 432/3 credits
Spanish 401, 402/6 credits
Spanish 441 or 442/3 credits
Spanish 461 or 462 or 471 or 472/3 credits
Spanish Electives/3 credits
TOTAL/24 credits

Spanish 100 and 110 may be by-passed totally or in part by advanced placement.

The following courses must be taken for teaching certification:

Spanish 400/3 credits
Psychology 250/3 credits
Education 455/3 credits
Education 402, 480, 482, 484, 486,
488/18 credits
TOTAL/27 credits

A language major may certify in a second modern language by completing 24 hours in the second language. Twelve of these hours must be beyond the intermediate level. Advance placement reduces proportionately the number of hours required by the Commonwealth of Virginia for certification.

NOTE: 126 hours are required for graduation with a cumulative average of 2.0, and a 2.0 average in all major courses. If teaching certification is desired, 128 hours are required for graduation with a cumulative average of 2.0 and a 2.0 average in all major courses.

PHILOSOPHY PROGRAM

The faculty in philosophy offers a minor in philosophy. Effective in the fall of 1981, a student may declare a major in philosophy.

The objectives of both the major and minor programs are as follows: (1) to develop the skill to examine critically the philosophical problems which are basic and perennial for any serious-minded and reflective person; (2) to begin to develop a personal philosophy or system of beliefs concerning these issues; (3) to provide a service to other disciplines by offering "bridge courses" which analyze problems and theories in other fields in both the humanities and sciences, both natural and social.

MINOR IN PHILOSOPHY

Philosophy 200, 215, 216, 300, and 305

Two courses from the following: Philosophy 320, 350, 360, 365

TOTAL/21 credits

DEPARTMENT OF HEALTH, PHYSICAL EDUCATION AND RECREATION

Shirley M. O'Neil, *Chairman*

The department offers four educational programs. The programs are designed to meet the following objectives: (1) To prepare students to teach health and physical education in the secondary schools with an opportunity to specialize in coaching, dance, elementary education; (2) To qualify students for careers in therapeutic recreation; (3) To provide opportunities for students to develop lifetime activities; (4) To provide opportunities for students to participate in aquatic arts, dance, intramural and intercollegiate sports.

The Required Physical Education Curriculum

All students are required to complete one semester hour of credit in health, and three semester hours of credit in physical education activity courses. One of the three activity courses must be swimming, unless the student wishes to by-pass swimming through testing. If this occurs, the student will replace the swimming credit with another physical education activity credit. Students must take one credit in Health Education 100 during the freshman year, and one credit of an activity course in the other three semesters of their freshman and sophomore years.

Activity equipment such as golf clubs, archery arrows and bows are supplied by the department. Dance leotards, golf and tennis balls, tennis rackets, swimming suits, caps and towels must be furnished by the students enrolled in these courses.

It is recommended that each student select a program of activity so that the student will develop a skill competency in at least one area whether it be an individual sport, aquatics, or dance. A maximum of one semester hours may be taken in any one activity at the beginning level, but any number of semester hours may be taken in any one activity at the intermediate and advanced levels.

Numerals after the name of the activity indicate the level of proficiency: I—Beginner; II—Intermediate; III—Advanced.

Professional Health and Physical Education

A degree of Bachelor of Science with a major in Health, Physical Education and Recreation is granted to students who complete 128 semester hours of credit in one of the patterns of curriculum described under "Course Requirements." Students may prepare for teaching careers in secondary physical education with an opportunity to specialize in coaching, dance or elementary physical education. Students must demonstrate adequate preparation in techniques courses with a minimum grade of "C" on each course. The following courses are techniques courses: Physical Education 130, 131, 132, 133, 134, 230, 231, 232, 233, 237, 330 and 331. Students must also demonstrate adequate preparation in the techniques of officiating in two of the four following courses: Physical Education 303, 305, 307, 308.

Students with a major in Health and Physical Education are expected to participate in the intramural and/or intercollegiate programs offered at the College.

Junior English Proficiency Requirement: Students will adhere to the college policy concerning the English Proficiency Requirement.

A minor in dance may be earned by those students successfully completing the courses listed under "Course Requirements." Students must pass an audition to enter the program. They are also expected to be active members of the Longwood College Company of Dancers for a minimum of two years.

Professional Therapeutic Recreation

A major in Therapeutic Recreation will provide the student with competencies enabling him to utilize the tools of recreation and leisure services needed for a successful and enriching developmental program for those individuals with "special needs." By blending a comprehensive general education background with professional preparatory courses and field work experiences the major will prepare the student for a career in one of today's fastest growing professions.

Prior to their junior year, each major is expected to have completed a field experience of his/her choice in a student-selected and department-approved recreational setting. During the summer of his junior year each major will participate in a full-time therapeutic recreation internship with the goal of acquiring necessary skills which are intended to prepare him for his senior year.

The culmination of the degree program is the Senior Internship. This is a sixteen week full-time work experience.

In each full-time internship experience, the student is guided by the site supervisor with periodic visits made by the college internship supervisor. These field-work experiences, internships, may not be taken in successive semesters unless there is undue hardship.

FACULTY

Nancy A. Andrews, *Assistant Professor*
B.S., Longwood College; M.S., University of Tennessee; Ed.D., Virginia Polytechnic Institute & State University

Ronald Bash, *Associate Professor and Director of Men's Athletics*
B.S., Temple University; M.Ed., Ed.D., Boston University

Eleanor W. Bobbitt, *Professor*
B.S., Longwood College; M.S., University of Tennessee; Ph.D., University of Maryland

Charles D. Bolding, *Instructor*
B.S., Milligan College; M.S., University of Tennessee

Betty Ann Bowman, *Professor*
A.B., M.S., University of Tennessee; Ph.D., University of Michigan

Francis M. Brasile, *Assistant Professor*
B.S., University of Wisconsin; M.S., University of Illinois

Ruth L. Budd, *Instructor*
B.A., Madison College; M.S., James Madison University

Sally C. Bush, *Assistant Professor*
B.S., Mississippi State College; M.A., Appalachian State Teachers College

Carolyn R. Callaway, *Assistant Professor*
B.S., University of Maryland; M.S., University of North Carolina at Greensboro

Peter H. Cunningham, *Instructor*
B.S., Austin Peay State University; M.A., Murray State University

Gerald P. Graham, *Associate Professor*
B.A., Muskingum College; M.A., Ohio State University; Ph.D., Kent State University

Bette Harris, *Assistant Professor*
B.S., Madison College; M.A., Sam Houston State University; Ed.D., University of North Carolina at Greensboro

Phyllis W. Harriss, *Assistant Professor*
B.S., Longwood College; M.S., University of Tennessee

Mary A. Heintz, *Professor, Vice President for Students Affairs & Dean of Students*
B.S., Sargent College of Physical Education; M.S., University of Tennessee; Ph.D., University of Iowa

Carolyn V. Hodges, *Assistant Professor and Director of Women's Athletics*
B.S., Lynchburg College; M.S., University of North Carolina at Greensboro

Anne H. Huffman, *Assistant Professor*
B.A., College of William and Mary; M.S., Longwood College

Judith R. Johnson, *Associate Professor*
B.S., Winthrop College; M.S., University of Iowa; Ph.D., University of Illinois

Jane Miller, *Instructor*
B.S., Northeastern University; M.S.P.E., University of North Carolina at Greensboro

Nelson D. Neal, *Assistant Professor*
B.S., State University of New York; M.S., University of Wisconsin

Shirley M. O'Neil, *Professor and Chairman*
B.A., University of New Hampshire; M.A., University of Tennessee; Ph.D., University of Michigan

* Jiri Rada, *Assistant Professor*
B.A., B.H.P.E., Queen's College; M.Sc., University of Oregon

Martin Schoepfer, *Instructor*
B.S., Ed.M., Boston University

Barbara B. Smith, *Professor*
B.S., Limestone College; M.Ed., University of North Carolina at Chapel Hill; Ed.D., University of North Carolina at Greensboro

*On leave of absence 1980-81.

COURSE REQUIREMENTS

The department offers two majors and one minor: Health, Physical Education; Therapeutic Recreation; and Dance. The requirements for each major and minor are listed below. A 2.0 average is required before student teaching, Junior Internship, or Senior Internship.

HEALTH, PHYSICAL EDUCATION MAJOR B S DEGREE

General Education Requirements

Art, Music, or Drama/6 credits
English 100, 101/6 credits
Literature/3 credits
Humanities Elective/3 credits
History 121 or 122/3 credits
Social Science Electives/9 credits
Biology 206/4 credits
Biology 207/4 credits
Mathematics/6 credits
Health Education 100/1 credit
Physical Education Activity Courses
(110 or 210/211) and 106 I, and
106 II or 101/3 credits
TOTAL/48 credits

Departmental Requirements Necessary for Secondary Endorsement

Physical Education 130 (women only), 131,
132, 133 (men only), 134/4 credits
Physical Education 225/3 credits
Physical Education 230, 231, 232, 233, 237
(men only)/4-5 credits
Physical Education 261/3 credits
Physical Education 303, 305, 307, 308 (2
of the 4)/2 credits
Physical Education 330, 331/2 credits
Physical Education 338/3 credits
Physical Education 339/3 credits
Physical Education 340/3 credits
Health Education 336/3 credits
Health Education 345/3 credits
Health & Physical Education 354/3 credits
Health & Physical Education 402/3 credits
Health & Physical Education 403/3 credits
TOTAL/42-43 credits

The following courses must be taken for teaching certification:

Psychology 250/3 credits
Education 455/3 credits
Education 402, 480, 482, 484, 486,
488/18 credits
TOTAL/24 credits

Additional Courses Necessary for Secondary Endorsement with an Elementary Concen- tration

Home Economics 306/2 credits
Physical Education 304/3 credits
Physical Education 310/3 credits
Physical Education 404/3 credits
TOTAL/11 credits

Additional Courses Necessary for Secondary Endorsement with a Coaching Concentration

Physical Education 300/3 credits
Physical Education 306/3 credits
Physical Education 400/3 credits
TOTAL/9 credits

Departmental Electives

Health Education 211/2 credits
Health Education 212/2 credits
Health Education 301/3 credits
Health Education 302/3 credits
Physical Education 301/1 credit
Physical Education 302/3 credits
Physical Education 355/3 credits
Physical Education 405/2 or 3 credits
Physical Education 461, 462, 463/
1, 2, or 3 credits

NOTE: 128 hours are required for gradu-
ation with a cumulative average of 2.0,
and a 2.0 in all major courses.

THERAPEUTIC RECREATION MAJOR B S DEGREE

General Education Requirements

English 100/3 credits
English 101/3 credits
History 121 or 122/3 credits
Health Education 100/1 credit
Psychology 131/3 credits
Sociology 101/3 credits
Biology 206/4 credits
Biology 207/4 credits
Physical Education 131 & 132/2 credits
Physical Education 119/1 credit
Psychology 356/3 credits
Music 111/3 credits
Art, Music, Dramatic Arts/3 credits
Literature Elective/3 credits
Mathematics/6 credits
Social Science Electives/6 credits
TOTAL/51 credits

Free Electives/13 credits

Professional Education Requirements

Recreation 205/1 credit
Recreation 210/3 credits
Recreation 213/3 credits
Recreation 237/3 credits
Recreation 300/1 credit
Recreation 301, 302, 303/
6 of 9 credits
Recreation 308/3 credits
Recreation 361/3 credits
Recreation 370/3 credits
Recreation 380/8 credits
TOTAL/34 credits

Professional Emphasis Requirements

Recreation 406/1 credit
Recreation 410/3 credits
Recreation 437/3 credits
Recreation 499/16 credits
TOTAL/23 credits

Health & Physical Education Requirements

Health Education 336/3 credits
Physical Education 339/3 credits
Physical Education 110 or 210/
1 or 2 credits
TOTAL/7 credits

Electives

Recreation 404/3 credits
Recreation 461, 462, 463/
1, 2, or 3 credits

All therapeutic recreation majors will be
required, prior to their junior practicum,
to have completed an approved field
experience of 120 hours in a selected
and approved recreation setting.

NOTE: 128 hours are required for gradu-
ation, with a cumulative average of 2.0,
and a 2.0 average in all major courses.

MINOR IN DANCE

Physical Education 206 I, II, III, IV/8 credits
Physical Education 322/2 credits
Physical Education 357/3 credits

Physical Education 358/3 credits
Physical Education 428/2 credits
TOTAL/18 credits

DEPARTMENT OF HISTORY AND GOVERNMENT

L. Marshall Hall, *Chairman*

The Department of History and Government of Longwood College enjoys a rich tradition of excellence grounded in the scholarly achievements of an eminent historian and long-time member of the history faculty, the late Francis Butler Simkins. An able and professionally active faculty offers the serious student the personal counsel and quality instruction essential to a sound undergraduate program. The department takes special pride in the many former majors who have gone on to rewarding professional careers in teaching and other fields, and to successful programs of graduate study at such universities as Duke, Minnesota, New Mexico, North Carolina, Vanderbilt, and Virginia. Among recent graduates, two have received major scholarships for graduate study awarded annually by the National Social Science Honorary Society, Pi Gamma Mu.

The department offers major programs in history, government, and social science culminating in either the Bachelor of Arts, or the Bachelor of Science degree. Government majors may elect to participate in a government semester internship, involving work in residence with the Virginia General Assembly for a complete session. The department also provides special curricula for history and government majors interested in pursuing a career in law. Minor programs in both history and government are available to all students.

The history, government, and social science majors meet the Collegiate Professional Certificate requirements for teaching in Virginia. Students seeking a separate state teaching endorsement in history or government must complete a course in basic economics. History, government, and social science majors may be required to take a comprehensive examination preceding student teaching to demonstrate academic proficiency in the major subjects. Prior to student teaching in government, a student must complete Government 215 and 216, and one semester of either Government 341 or 342 with no less than a grade of "C" in each course.

Departmental majors seeking the Bachelor of Arts degree must complete three semester hours of work in one foreign language at the 200 level.

FACULTY

Alexander V. Berkis, *Professor*
L.L.M., University of Latvia; M.A.,
Ph.D., University of Wisconsin
Richard T. Couture, *Assistant Professor*
B.A., College of William and Mary;
M.A., University of Virginia
James W. Cowl, *Assistant Professor*
B.A., Davis and Elkins College; M.S.,
Ph.D., University of Virginia

Elizabeth W. Etheridge, *Associate Professor*
A.B.J., University of Georgia; M.A.,
State University of Iowa; Ph.D., Uni-
versity of Georgia
L. Marshall Hall, Jr., *Associate Professor*
and Chairman
A.B., M.A.T., Duke University
William R. Harbour, *Assistant Professor*
B.A., University of Arizona; M.A.,
Ph.D., Indiana University

James M. Helms, Jr., *Professor*
B.A., Clemson College; M.A., Ph.D.,
University of Virginia
Gilbert J. Millar, *Associate Professor*
B.A., Southeastern Louisiana College;
M.A., Ph.D., Louisiana State University
Maurice P. Sneller, *Professor*
B.A., M.A., Ph.D., University of Virginia
*Charles W. Sydnor, Jr., *Associate Professor*
B.A., Emory and Henry College; M.A.,
Ph.D., Vanderbilt University

*Leave of Absence, 1980-81

COURSE REQUIREMENTS

The department offers majors in Government, History, and Social Science; minors in Government and History; and special programs for Government and History majors interested in pursuing careers in law. For each major, students may choose to pursue the Bachelor of Arts or the Bachelor of Science degree. Students planning to teach either history or government are urged to obtain information on endorsements from their academic advisers.

GOVERNMENT MAJOR B S DEGREE

General Education Requirements
Art, Music, or Dramatic Arts/6 credits
English 100, 101/6 credits
Literature/3 credits
Literature, Philosophy, or Religion/3 credits
Economics 202/3 credits
History 121 or 122/3 credits
Social Science Electives*/6 credits
Biological Science/4 credits
Physical Science/4 credits
Mathematics/6 credits
Health Education 100/1 credit
Physical Education Activity Courses/3 credits
TOTAL/48 credits
(*To be selected from departmental list
approved by department chairman or
government adviser.)

Major Requirements
History 111, 112/6 credits
Government 215, 216/6 credits
Government 331, 332/6 credits
Government 341 or 342/3 credits
Government Electives*/15 credits
TOTAL/36 credits
(**Approved by department chairman
or government adviser.)

Students seeking the BA Degree must take 3 semester hours of one foreign language at the 200 level and choose the humanities elective from Literature, Philosophy, or Religion.

The following courses must be taken for teaching certification:
Psychology 250/3 credits
Education 455/3 credits
Education 402, 480, 482, 484, 486,
488/18 credits
TOTAL/24 credits

**HISTORY MAJOR
B S DEGREE**

General Education Requirements

Art, Music or Dramatic Arts/6 credits
English 100, 101/6 credits
Literature/3 credits
Humanities Elective/3 credits
Government, Geography, or Anthropology/9 credits
Economics/3 credits
Biological Science/4 credits
Physical Science/4 credits
Mathematics/6 credits
Health Education 100/1 credit
Physical Education Activity Courses/3 credits
TOTAL/48 credits

Major Requirements

History 111, 112/6 credits
History 121, 122/6 credits
History Electives (to be divided between American and non-American courses according to departmental requirements)/24 credits
TOTAL/36 credits

Students seeking the B A degree must take 3 semester hours of one foreign language at the 200 level and choose the humanities elective from Literature, Philosophy, or Religion.

The following courses must be taken for teaching certification:

Psychology 250/3 credits
Education 455/3 credits
Education 402, 480, 482, 484, 486, 488/18 credits
TOTAL/24 credits

**SOCIAL SCIENCE MAJOR
B S DEGREE**

General Education Requirements

Art, Music, or Dramatic Arts/6 credits
English 100, 101/6 credits
Literature/3 credits
Literature, Philosophy, or Religion/3 credits
History 111, 112/6 credits
History 121/3 credits
Geography 201/3 credits
Biological Science/4 credits
Physical Science/4 credits
Mathematics/6 credits
Health Education 100/1 credit
Physical Education Activity Courses/3 credits
TOTAL/48 credits

Major Requirements

History 122/3 credits
History Electives/9 credits
Geography Elective/3 credits
Government 215, 216/6 credits
Government Electives/6 credits
Economics 231-232/6 credits
Sociology 101 or Anthropology 101/3 credits
TOTAL/36 credits

Students seeking the BA degree must take 3 semester hours of one foreign language at the 200 level and choose the humanities elective from Literature, Philosophy or Religion.

The following courses must be taken for teaching certification:

Psychology 250/3 credits
Education 455/3 credits
Education 402, 480, 482, 484, 486, 488/18 credits
TOTAL/24 credits

**GOVERNMENT MAJOR
PRE-LAW CONCENTRATION
B S DEGREE**

General Education Requirements

Art, Music or Dramatic Arts/6 credits
English 100, 101/6 credits
Literature/3 credits
Philosophy 200, 300 or 305/3 credits
Economics 231/3 credits
Psychology 131 or 132/3 credits
History 121/3 credits
Sociology 101/3 credits
Biological Science/4 credits
Physical Science/4 credits
Mathematics 112 or 161; 114/6 credits
Health Education 100/1 credit
Physical Education Activity Courses/3 credits
TOTAL/48 credits

Major Requirements

Government 215, 216/6 credits
Government 331, 332/6 credits
Government 441/3 credits
Government 455/3 credits
Government Electives/9 credits
History 111, 112/6 credits
History 122/3 credits
History 357/3 credits
History 465/3 credits
Economics 232/3 credits
Business 241, 242/6 credits
Sociology 382 or 383/3 credits
TOTAL/60 credits

Students seeking the BA degree must take 3 semester hours of one foreign language at the 200 level and choose the humanities elective from Literature, Philosophy or Religion.

**HISTORY MAJOR
PRE-LAW CONCENTRATION
B S DEGREE**

General Education Requirements

Art, Music, or Dramatic Arts/6 credits
English 100, 101/6 credits
Literature/3 credits
Philosophy 200, 300 or 305/3 credits
Psychology 131 or 132/3 credits
Economics 231/3 credits
History 121/3 credits
Sociology 101/3 credits
Biological Science/4 credits
Physical Science/4 credits
Mathematics 112 or 161; 114/6 credits
Health Education 100/1 credit
Physical Education Activity Courses/3 credits
TOTAL/48 credits

Major Requirements

History 111, 112/6 credits
History 122/3 credits
History 357/3 credits
History 465/3 credits
History 455/3 credits
History Electives (American)/9 credits
History Electives (General)/6 credits
Government 215, 216/6 credits
Government 331, 332/6 credits
Government 341 or 342/3 credits
Business 241, 242/6 credits
Economics 232/3 credits
Sociology 382 or 383/3 credits
TOTAL/60 credits

Students seeking the BA degree must take 3 semester hours of one foreign language at the 200 level and choose the humanities elective from Literature, Philosophy or Religion.

MINOR IN HISTORY

The history minor consists of 21 hours of courses selected from departmental offerings after consultation with a departmental adviser.

MINOR IN GOVERNMENT

The government minor consists of 18 hours. Government 215, 216, and one semester of either Government 341 or 342 are required. The remaining nine hours must be selected from departmental offerings after consulting with a departmental adviser.

DEPARTMENT OF HOME ECONOMICS

Ann Sloan Thompson, *Chairman*

The Department of Home Economics offers three instructional programs leading to a Bachelor of Science degree. Students may declare their preference based on a personal interest, aptitude, and projected career plans. The department offers a major in Home Economics with concentrations in Home Economics Education, Clothing and Textiles, or Food and Nutrition. Minors in the areas of Clothing and Textiles and Food and Nutrition are available to non-home economics majors. Students wishing to minor in either of these areas should consult with the head of the Department of Home Economics.

The Bachelor of Science degree with an option in Home Economics Education qualifies the student for the Virginia Collegiate Professional Certificate with endorsement to teach vocational home economics. Home Economics Education majors may elect courses in career education which qualify them to teach occupational home economics courses. Home Economics students majoring in Home Economics Education must have a cumulative average of 2.0 and a 2.0 average in all major requirements with 128 hours of credit for graduation.

The Bachelor of Science degree with an option in Clothing and Textiles qualifies students for positions as home economists in business. Students majoring in this option may choose to emphasize fashion merchandising or clothing and textiles. Either choice leads to positions in the chosen field of study. Clothing construction courses require students to furnish their own tools and fabrics. Home Economics students majoring in Clothing and Textiles must have a cumulative average of 2.0 and a 2.0 average in all major courses with 126 hours of credit for graduation.

The Bachelor of Science degree with an option in Food and Nutrition qualifies students for positions as home economists in business. Home Economics students majoring in Food and Nutrition must have a cumulative average of 2.0 and a 2.0 average in all major requirements with 126 hours of credit for graduation.

Students should consult semester class schedules relative to course offerings for alternate years. Scheduling and sequencing of courses will be done with the assistance of students' academic advisers. However, the student is ultimately responsible for meeting graduation requirements.

FACULTY

Melinda I. Fowlkes, *Assistant Professor*
B.S., M.Ed., University of Georgia
Marguerite S. Griffith, *Associate Professor*
B.S., Milligan College; M.S., Ed.D.,
Virginia Polytechnic Institute and
State University
Eva Jane McCreary, *Associate Professor*
B.S., Kent State University; M.S.,
University of Wisconsin

Marilyn Osborn, *Assistant Professor*
B.S., M.Ed., University of North
Carolina at Greensboro
Ann Sloan Thompson, *Associate Professor*
and Chairman
B.S.H.E., M.S., University of North
Carolina at Greensboro

*HOME ECONOMICS MAJOR
B S DEGREE*

*General Education Requirements for ALL
Home Economics Majors*

(see each specific option in Home Economics for remaining general education requirements)

English 100, 101/6 credits
Art 120/3 credits
Literature Elective/3 credits
History 121 or 122/3 credits
Economics 202/3 credits
Chemistry 101/4 credits
Health Education 100/1 credit
Physical Education Activity
Courses/3 credits
TOTAL/26 credits

*Major Requirements for ALL Home
Economics Majors*

(see each specific option in Home Economics for remaining major requirements)
Home Economics 100 (Introduction to Home Economics)/1 credit
Home Economics 101 (Family Development)/3 credits
*Home Economics 243 (Consumer Finance)/3 credits
Home Economics 306 (Child Development)/4 credits
Home Economics 441 (Management of the Home)/2 credits
*Home Economics 442 (Home Management Residence)/4 credits
TOTAL/17 credits

*Prerequisite(s) required and/or recommended.

*OPTION I
HOME ECONOMICS EDUCATION*

Additional General Education Requirements

Art, Music or Drama Elective/3 credits
Humanities Elective/3 credits
Social Science Elective/3 credits
Sociology 441/3 credits
Biology 101/4 credits
Mathematics 111, 112 or 161/3 credits
Mathematics 114 or 162/3 credits
TOTAL/22 credits

Additional Major Requirements

Home Economics 127 (Clothing Selection & Construction)/3 credits
Home Economics 128 (Textiles)/3 credits
Home Economics 133 (Principles of Food Preparation)/3 credits
*Home Economics 134 (Food Management)/3 credits
Home Economics 242 (Home Equipment)/3 credits
*Home Economics 235 (Nutrition)/3 credits
*Home Economics 222, 325 or 424 (Family Clothing, Pattern Revision/Construction or Tailoring)/3 credits
Home Economics 347 (Housing)/3 credits
Home Economics 348 (Home Furnishings)/3 credits
*Home Economics 356, 357 (Teaching Vocational Home Economics)/6 credits
Electives/9 credits
TOTAL/42 credits

Professional Teaching Requirements

Psychology 250/3 credits
Education 402/10 credits
Education 480, 482, 484, 486, 488/8 credits
TOTAL/21 credits

*OPTION II-A
CLOTHING & TEXTILES*

Additional General Education Requirements

Art 215/3 credits
Psychology 131/3 credits
Sociology 101/3 credits
Government 215 or 216/3 credits
Chemistry 205/4 credits
Mathematics 111, 112 or 161/3 credits
Mathematics 112, 114 or 162/3 credits
TOTAL/22 credits

Additional Major Requirements

Home Economics 127 (Clothing Selection & Construction)/3 credits
Home Economics 128 (Textiles)/3 credits
Home Economics 133 or *235 (Principles of Food Preparation or Nutrition)/3 credits
*Home Economics 222 (Family Clothing Needs)/3 credits
Home Economics 320 (Fashion Analysis)/3 credits
*Home Economics 324 (Advanced Textiles)/3 credits
*Home Economics 325 (Creative Pattern Revision & Construction)/3 credits
Home Economics 347 (Housing)/3 credits
Home Economics 348 (Home Furnishings)/3 credits
*Home Economics 424 (Tailoring)/3 credits
Home Economics 432 (Presentation Techniques)/3 credits
Chemistry 102/4 credits
Chemistry 206 or 371/4 or 3 credits
Speech 101/3 credits
Electives/8 or 9 credits
TOTAL/52 credits

Business Electives

(three of the following courses must be taken)
Business 151 (Introduction to Business)/3 credits
Business 152 (Principles of Management)/3 credits
Business 220 (Business Communications)/3 credits
Business 228 (Principles of Marketing)/3 credits
Business 241 (Elementary Accounting)/3 credits
Business 328 (Retailing Principles and Practices)/3 credits
*Business 357 (Small Business Management)/3 credits
Business 454 (Advertising)/3 credits
TOTAL/9 credits

OPTION II-B
CLOTHING & TEXTILES (FASHION MERCHANDISING EMPHASIS)

Additional General Education Requirements

Art 221/3 credits
Psychology 131/3 credits
Sociology 101/3 credits
Government 215 or 216/3 credits
Biology 101/4 credits
Mathematics 111, 112 or 161/3 credits
Mathematics 112, 114 or 162/3 credits
TOTAL/22 credits

Additional Major Requirements

Home Economics 127 (Clothing Selection & Construction)/3 credits
Home Economics 128 (Textiles)/3 credits
Home Economics 133 or *235 (Principles of Food Preparation or Nutrition)/3 credits
Home Economics 320 (Fashion Analysis)/3 credits
Home Economics 321 (Fashion Merchandising Fundamentals)/3 credits
*Home Economics 324 (Advanced Textiles)/3 credits
*Home Economics 325 or 424 (Creative Pattern Revision and Construction or Tailoring)/3 credits
Home Economics 347 (Housing)/3 credits
Home Economics 348 (Home Furnishings)/3 credits

Business 151 (Introduction to Business)/3 credits
Business 152 (Principles of Management)/3 credits
Business 228 (Principles of Marketing)/3 credits
Business 241 (Elementary Accounting)/3 credits
Business 328 (Retailing Principles and Practices)/3 credits
Business 454 (Advertising)/3 credits
English 110 or 210 (Introduction to Journalism or Depth Reporting/Feature Writing)/3 credits
Speech 101/3 credits
Electives/10 credits
TOTAL/61 credits

OPTION III
FOOD & NUTRITION

Additional General Education Requirements

Psychology 131/3 credits
Art, Music or Drama/3 credits
Government 215 or 216/3 credits
Sociology 101/3 credits
Biology 101/4 credits
Mathematics 111 or 161/3 credits
Mathematics 113 or 162/3 credits
TOTAL/22 credits

Additional Major Requirements

Home Economics 133 (Principles of Food Preparation)/3 credits
Home Economics 134 (Food Management)/3 credits
*Home Economics 235 (Nutrition)/3 credits
Home Economics 242 (Home Equipment)/3 credits
*Home Economics 430 (Experimental Foods)/3 credits
*Home Economics 431 or 434 (Quantity Food Service or Diet Therapy)/4 or 3 credits
*Home Economics 432 (Presentation Techniques)/3 credits
Home Economics 433 (Community Nutrition)/3 credits
Biology 306 or 309/4 credits
Business 241/3 credits
Chemistry 102/4 credits
Chemistry 205/4 credits
*Chemistry 312/4 credits
Speech 101/3 credits
Electives/8 or 9 credits
TOTAL/55 credits

Business Electives

(two courses are required from the following)
Business 152 (Principles of Management)/3 credits
Business 220 (Business Communications)/3 credits
*Business 242 (Elementary Accounting)/3 credits
*Business 257 (Personnel Administration)/3 credits
Business 454 (Advertising)/3 credits
TOTAL/6 credits

MINORS IN HOME ECONOMICS

In order to complete a minor in one of the following areas of home economics, a non-home economics major must take 18 semester hours in the particular area chosen.

Minor in Clothing & Textiles

(students must complete 9 hours as follows)
Home Economics 127 (Clothing Selection & Construction)/3 credits

Home Economics 128 (Textiles)/3 credits
Home Economics 222 (Family Clothing Needs)/3 credits

Nine hours must be chosen from the following:

Home Economics 321 or 322 (Fashion Merchandising or Clothing & Textiles)/3 credits

*Home Economics 324 (Advanced Textiles)/3 credits

Home Economics 325 (Creative Pattern Revision & Construction)/3 credits

Home Economics 424 (Tailoring)/3 credits

Home Economics 446 (Interior Decorating Workshop)/3 credits

TOTAL/18 credits

*Prerequisite(s) Required and/or Recommended.

Minor in Food & Nutrition

(students must take 9 hours as follows)

Home Economics 133 (Principles of Food Preparation)/3 credits

Home Economics 134 (Food Management)/3 credits

*Home Economics 235 (Nutrition)/3 credits

Nine hours must be chosen from the following:

*Home Economics 430 (Experimental Foods)/3 credits

Home Economics 431 (Quantity Food Service)/3 credits

Home Economics 432 (Presentation Techniques)/3 credits

Home Economics 433 (Community Nutrition)/3 credits

Home Economics 434 (Diet Therapy)/3 credits

TOTAL/18 credits

DEPARTMENT OF LIBRARY SCIENCE

Martha H. LeSturgeon, *Chairman*

The Department of Library Science offers courses leading to a minor in Library Science and/or to State endorsement as a school librarian. For a minor in Library Science the following 21 semester hours are required: Library Science 280, 281, 301, 302, 401, 402, and 485. The program for students seeking State endorsement as school librarians consists of 21 semester hours of Library Science and 5 semester hours of directed school library service (Education 405).

All course work must be completed prior to directed school library service. Secondary majors in English, Foreign Languages, History, Mathematics, and Science must complete five weeks of practice teaching in their major field and five weeks of Library service. Secondary majors in the fields of Art, Business, Health & Physical Education, Home Economics, and Music and all elementary majors must complete ten weeks of practice teaching in their major field and five additional weeks in library science.

FACULTY

Polly W. Boaz, *Assistant Professor*
A.B., Western Kentucky University;
M.A. in L.S., George Peabody College
for Teachers

Jeris Cassell, *Instructor*
B.A., Longwood College; M.S. in
L.S., The Catholic University of
America

Mary Jo Dollins, *Assistant Professor*
B.A., Longwood College; M.S. in
L.S., University of North Carolina
at Chapel Hill

Rebecca R. Laine, *Assistant Professor*
A.B., College of William and Mary;
M.S. in L.S., University of North
Carolina at Chapel Hill

Martha H. LeSturgeon, *Associate Professor
and Chairman*
B.S., Longwood College; M.A. in L.S.,
George Peabody College for Teachers
Deborah J. Pearson, *Instructor*
B.A., Valparaiso University; M.A.L.,
University of Denver

DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

Merry Lewis Allen, *Chairman*

The Department of Mathematics and Computer Science offers courses leading to a major in mathematics and minors in mathematics and computer science; it also offers courses which fulfill general education requirements and those which meet certification requirements in pre-algebra and high school mathematics, and it provides service courses in elementary education and statistics.

General Education Requirements

All degree-seeking students are required to take two courses in mathematics and/or computer science and, in consultation with their advisers, they should choose two of the following appropriate to their majors: Mathematics 111, 112, 113, 114, 161, 162, 164, 261, 262; Computer Science 201, 202, 205, 206. (It is usually not advisable for students to take Mathematics 164 in conjunction with either Mathematics 161 or 162.) Note that elementary majors must take Mathematics 123, 124 to meet the general education requirement and this course is restricted to these students.

On the basis of a screening procedure some students will be required to take Mathematics 051 prior to general education mathematics courses.

Credit for Mathematics 123, 124, 223, 323 and 451 will not be given to students who have not satisfactorily completed a basic skills test. Satisfactory performance on a basic skills test may also be a course requirement of one or more of the general education mathematics courses.

Certification

Students majoring in fields other than mathematics may certify to teach mathematics at two different levels.

Pre-Algebra Mathematics. Students who wish to earn 16 semester hours credit to certify to teach eighth- and ninth-grade arithmetic, consumer mathematics, and basic mathematics should take a core program of Mathematics 123, 124, 323, 114 and 223, and elect the remaining credit hours from the offerings of the department.

High School Mathematics. Certification for teaching high school mathematics requires 27 semester hours of mathematics, including calculus, modern algebra, geometry, and probability and/or statistics. To meet this requirement students in this program should take Mathematics 261, 262, 342, 235, 336, 371 and Computer Science 205 or 505 with the remaining credit hours elected from the offerings of the department. It is recommended that Mathematics 451 be taken as a general elective.

Mathematics Major

All mathematics majors are required to take a core of mathematics courses (Mathematics 261, 262, 343, 361 and 371). The remaining courses will be selected from one of three options — teacher certification, pure mathematics or applied mathematics/computer science — according to career interests.

Students may, on the basis of a screening procedure, begin their mathematics studies with pre-calculus (164) or with Calculus and Analytic geometry (261). Other freshmen should take Mathematics 161, 162 to prepare for a major in mathematics.

While every attempt has been made to state the requirements and options available in the department as succinctly as possible, it is recommended that every student majoring or minoring in the department continue in close communication with the academic adviser assigned by the department in order to plan the program best suited to individual needs and goals.

FACULTY

Merry Lewis Allen, *Associate Professor and Chairman*
B.S., College of William and Mary; M.S., University of Illinois; M.Ed., Ed.D., University of Virginia
Sandra A. Bollinger, *Assistant Professor*
B.A., Longwood College; M.M., University of South Carolina
Al Carpenter, *Instructor*
B.S., University of Maryland; M.S., University of Tennessee
James C. Gussett, *Associate Professor*
B.S., United States Naval Academy; M.Ed., Ed.D., University of Cincinnati

William L. Hightower, *Assistant Professor*
B.A., Kalamazoo College; M.S., Ph.D., Michigan State University
F. Richard Kidder, *Associate Professor*
B.A., M.A., San Diego State College; Ed.D., University of Georgia
Robert D. May, *Assistant Professor*
B.A., Swarthmore College; Ph.D., Harvard University
E. T. Noone, Jr., *Associate Professor*
B.S., M.S., Northwestern State University; Ed.D., University of Southern Mississippi

Jean A. Noone, *Assistant Professor*
B.S., Madison College; M.M., University of South Carolina; Ed.D., University of Virginia
Robert P. Webber, *Associate Professor*
B.A., University of Richmond; M.S., Stephen F. Austin State College; Ph.D., University of Tennessee
Robert S. Wu, *Associate Professor*
B.S., Illinois Institute of Technology; M.S., DePaul University; Ph.D., University of Northern Colorado

The Department of Mathematics and Computer Science offers both a major and a minor in mathematics. It also offers a minor in computer science. The major requires emphasis in one of three options: teacher certification, pure mathematics or applied mathematics and computer science. Students majoring in mathematics earn a Bachelor of Science or Bachelor of Arts degree.

MATHEMATICS MAJOR B S DEGREE

General Education Requirements

Art, Music, or Dramatic Arts/6 credits
English 100, 101/6 credits
Literature/3 credits
Literature, Philosophy or Religion/3 credits
History 121 or 122/3 credits
Mathematics 161, 162*/6 credits
Social Science (at least two areas)/9 credits
Biological Science/4 credits
Physical Science/4 credits
Health Education 100/1 credit
Physical Education Activity Courses/3 credits
TOTAL/48 credits
(*May be by-passed. Check with department chairman.)

Major Requirements (all majors)

Mathematics 261, 262, 361/13 credits
Mathematics 343/3 credits
Mathematics 371/3 credits

Students seeking the BA degree must take 3 semester hours of one foreign language at the 200 level and choose the humanities elective from Literature, Philosophy or Religion.

Option I (Teacher Certification)

Mathematics 235, 336/6 credits
Mathematics 342/3 credits
Mathematics 451/3 credits
Computer Science 205, 206 or 505/3 credits
*Electives: 300-400 level mathematics/3 credits
300-400 level computer science or mathematics/3 credits

Option II (Pure Mathematics)

Mathematics 342/3 credits
Mathematics 336 or 351/3 credits
Mathematics 461/3 credits
Computer Science 205/3 credits
*Electives: 400 level mathematics/3 credits
300-400 level mathematics/3 credits
300-400 level computer science or mathematics/3 credits

Option III (Applied Mathematics and Computer Science)

Mathematics 472/3 credits
Computer Science 201, 202, 205 or 206/3 credits
Computer Science 301 and 302 or Mathematics 405 and 460/6 credits
*Electives: Computer Science 202 or 206 or 300-400 level computer science or mathematics/3 credits
300-400 level computer science or mathematics/6 credits

*Electives may not include Mathematics 323, 380, 451 or 452.

The following courses must be taken for teaching certification:

Psychology 250/3 credits
Education 455/3 credits
Education 402, 480, 482, 484, 486, 488/18 credits

NOTE: 126 hours are required for graduation with a cumulative average of 2.0, and a 2.0 average in all major courses. If teaching certification is desired, 128 hours are required for graduation with a cumulative average of 2.0, and a 2.0 average in all major courses.

MINOR IN MATHEMATICS

Mathematics 164*/3 credits
Mathematics 261, 262/10 credits
**Electives: 300-400 level mathematics/3 credits
200-400 level computer science
or mathematics/6 credits

*Or equivalent. This requirement may be waived for students beginning their mathematics studies with Mathematics 261.

**Electives may not include Mathematics 223, 235, 271, 323, 380, 451 and 452.

MINOR IN COMPUTER SCIENCE

A minor in computer science shall consist of 18 credit hours of computer science courses, at least 12 hours of which must be at the 300 or 400 level.

With the exception of one 200-level computer science course, students majoring in mathematics may not use computer science courses to fulfill the requirements for both the mathematics major and the computer science minor.

DEPARTMENT OF MILITARY SCIENCE

Army ROTC is a four-year course of study, open to men and women, which may be taken by Longwood students concurrently with their regular work. Credits earned in Military Science are counted as elective hours, and may be offered as hours to fulfill the graduate requirements for any degree.

The course of study is divided into two phases: the Basic Course, taken during the freshman and sophomore years; and the Advanced Course, taken during the junior and senior years. Students enrolled in the Basic Course do not incur any military obligation, and are not required to take the Advanced Course. Eight credits may be earned in the Basic Course (four each year) and six credits may be earned in the Advanced Course (three each year). Students must successfully complete the Basic Course or an approved substitute to be eligible for entry into the Advanced Course. Veterans and junior ROTC students are given credit for Basic Course subjects as a result of their prior military service and experience. Sophomores who have not completed basic military science are eligible to receive placement credit for those courses by participation in the two-year ROTC program. Successful completion of the program earns the student a commission as a Second Lieutenant in the United States Army. After receiving a commission as a Second Lieutenant, the graduate may request active military service or assignment with the United States Army Reserve or National Guard.

Cadets may compete for Army scholarships that include all academic fees, tuition, supplies and equipment, plus a subsistence allowance of \$100 per academic month. Students enrolled in the Advanced Course earn \$100 per academic month. All uniforms, books, and equipment are provided by the Army.

The military science program leads to commissions in all branches of the Army. Seniors planning to pursue graduate study may request a delay in reporting to active duty to permit their continued education. The top 5% of graduates nationally will be offered Army fellowships for graduate school if they desire. In addition, special programs in medicine and law are available to graduates.

NOTE: Class hours are devoted to academic subjects. In addition to academic material, students are offered the opportunity to participate in extra-curricular activities. These optional events include canoe trips, rappelling, backpacking, hang gliding, helicopter flights, tours of military installations, and leadership exercises conducted in conjunction with ROTC cadets from the University of Richmond. Courses are designed to build upon preceding material although completion of any one is not an essential prerequisite for those following.

Hampden-Sydney students are encouraged to enroll in Military Science classes. Advanced Course classes can be taught for Hampden-Sydney if there is adequate demand.

Students may enroll in selected Physical Education and History department classes and receive Basic Course Military Science credit. Each student desiring to receive credit for one of the approved substitute courses should coordinate this scheduling with the Military Science Department.

FACULTY

George N. Ivey, *Professor*

B.G.E., University of Omaha; B.S., University of the State of New York; M.S., Troy State University; C.A.G.S., College of William and Mary; Graduate, U.S. Army Command and General Staff College; Graduate, College of Naval Warfare, Naval War College; Colonel, Infantry; Master Army Aviator, United States Army

Timothy B. Jordan, *Instructor*

Graduate, Third U.S. Army Non-Commissioned Officers Academy; Graduate, 82nd Airborne Division Non-Commissioned Officer Academy; Sergeant First Class, Infantry; Master Parachutist, Recondo, United States Army

Roger W. McHenry, *Assistant Professor*

B.S., Ohio State University; Captain, Quartermaster, United States Army

Thomas B.L. Stanford, *Associate Professor*

B.S., United States Military Academy; Graduate, Field Artillery Officers Advanced Course; Captain, Field Artillery; Ranger, Parachutist, United States Army

DEPARTMENT OF MUSIC

Louard E. Egbert, Jr., *Chairman*

The music curricula are designed: (a) to provide all interested students with relevant musical experiences, and to increase musical literacy of all students, (b) to educate talented musicians (music majors) in the highest traditions of musical art with relation to the past and the future, (c) to enable these students to communicate to others at all age levels an awareness and enjoyment of great music, and (d) to bring to all students by means of varied and superior performances the exciting experience of listening to music creatively.

The required music courses for the Bachelor of Music Education degree are: Music 115, 116, Music 117, 118, Music 127, 128, Music 167, 168, Music 191, 192, Music 215, 216, Music 217, 218, Music 227, 228, and Music 327; Music 343, 344 or Music 343, 348; Music 431, 432, 24 hours in applied music distributed as follows: 14 hours in concentration, 6 in proficiency, and 6 in instrumental classes; 2 hours in music literature in the concentration area.

The required music courses for a major in the Bachelor of Arts program are: Music 115, 116, Music 117, 118, Music 127, 128, Music 215, 216, Music 217, 218, Music 227, 228, and Music 327; Music 431, 432; 12 hours in applied concentration and a minimum of 6 elective hours approved by the department chairman.

Each student must perform an audition in order to be accepted as a music major or minor in the Department of Music.

Each major and minor must participate in an ensemble each semester. Each music major must appear as a soloist on at least a half Senior Recital during the student's senior year.

Each incoming freshman music major must play a keyboard audition in order for the music faculty to determine the student's level of piano ability; depending upon the student's ability level, he/she will be required to take one of the two classes for one semester: Music 212, for remedial work; or Music 213, for the more advanced student, who may do accompanying.

The amount of credit in applied music that may be transferred from other institutions will be determined through evaluation of the student's ability by the Department of Music.

FACULTY

Robert E. Blasch, *Professor*

B.A., Hofstra University; B.M., M.M.,
University of Michigan; M.A., University
of Illinois; Ed.D., Columbia
University

Roy Clark, *Visiting Artist in Music*

Louard E. Egbert, Jr., *Associate Professor
and Chairman*

B.M.E., Murray State University; M.M.E.,
University of Illinois; D.M.A., University
of Kentucky

Pauline B. Haga, *Assistant Professor*

B.A., Iowa State Teachers College; M.M.,
Northwestern University

Darrell G. Harbaum, *Associate Professor*

B.S., University of Cincinnati; M.Mus.,
Cincinnati Conservatory of Music

Paul S. Hesselink, *Associate Professor*

A.B., Hope College; M.A., Ohio State
University; D.M.A., University of
Colorado

Patricia Lust, *Assistant Professor*

B.M., Heidelberg College; M.M.,
New England Conservatory of Music

W. Bruce Montgomery, *Assistant Professor*

B.S., Milligan College; M.Ed., College of
William and Mary; Ph.D., Florida State
University

Frieda E. Myers, *Assistant Professor*

B.S., Indiana Central College; M.Mus.,
Indiana University

Thomas A. Williams, *Associate Professor*

B.M., University of Montevallo; M.M.,
Louisiana State University

The department offers majors in music and music education. Students majoring in music earn a Bachelor of Arts degree. Students majoring in music education earn a Bachelor of Music Education (B.M.E.) degree.

MUSIC MAJOR B A DEGREE

General Education Requirements

Art, Music, or Dramatic Arts/6 credits

English 100, 101/6 credits

Literature/3 credits

Literature, Philosophy or Religion/3 credits

Foreign Language at the 200 level/3 credits

History 121 or 122/3 credits

Social Science/9 credits

Mathematics/6 credits

Science/8 credits

Health Education 100/1 credit

Physical Education Activity Courses/3 credits

TOTAL/51 credits

Major Requirements

Music 115, 116/4 credits

Music 117, 118/2 credits

Music 127, 128/2 credits

Music 212 or 213/1 credit

Music 215, 216/4 credits

Music 217, 218/2 credits

Music 227, 228/2 credits

Music 327/3 credits

Music 431, 432/6 credits

Music Electives/6 credits

Music Ensemble/6 credits

Applied Concentration/12 credits

TOTAL/50 credits

NOTE: 126 hours are required for graduation, with a cumulative average of 2.0, and a 2.0 average in all major courses.

BACHELOR OF MUSIC EDUCATION DEGREE

General Education Requirements

English 100, 101/6 credits
Literature/3 credits
Literature or Philosophy/3 credits
History 121 or 122/3 credits
Social Science/9 credits
Mathematics/6 credits
Music 431, 432/6 credits
Science/8 credits
Health Education 100/1 credit
Physical Education Activity Courses/3 credits
TOTAL/48 credits

Major Requirements

Music 115, 116/4 credits
Music 117, 118/2 credits
Music 127, 128/2 credits
Music 167, 168/2 credits
Music 171/1 credit
Music 189/1 credit
Music 191, 192/2 credits
Music 212 or 213/1 credit
Music 215, 216/4 credits
Music 217, 218/2 credits
Music 227, 228/2 credits
Music 315/2 credits
Music 327/3 credits
Music 343/3 credits
Music 344 or 348 and 349/2 or 3 credits
Music Concentration/14 credits
Music Literature (concentration area)/2 credits
Music Ensemble/6 credits
Secondary Instrument/4 credits
TOTAL/59 or 60 credits

The following courses must be taken for teaching certification:

Psychology 250/3 credits
Education 455/3 credits
Education 402, 480, 482, 484, 486, 488/
18 credits
TOTAL/24 credits

NOTE: 128 hours are required for graduation, with a cumulative average of 2.0, and a 2.0 average in all major courses.

MINOR IN MUSIC

Music 115, 116/4 credits
Music 117, 118/2 credits
Music 127, 128, 227, 228, or
123/3 credits
Music Ensemble/2 credits

Applied Major/8 credits
Applied Minor/2 credits
Music Elective/3 credits
TOTAL/24 credits

DEPARTMENT OF NATURAL SCIENCES

Marvin W. Scott, *Chairman*

The Department of Natural Sciences offers majors in the following areas: biology, chemistry, earth science, and physics. In each area, both the Bachelor of Arts and the Bachelor of Science degrees are available. Students particularly interested in the environment may major in biology with a concentration in environmental science. In addition, physics majors may choose to pursue a pre-medical/biophysics concentration in preparation for medical or graduate school, or physics majors may choose to enter a multi-disciplinary program leading to teaching certification in science, mathematics, and physics. For students interested in engineering, both two year and three-year pre-engineering cooperative programs are offered. The department also provides two year curricula for students who wish to pursue work in dental hygiene at VCU-MCV, pharmacy at VCU-MCV, physical therapy at VCU-MCV, occupational therapy at VCU-MCV, medical technology at VCU-MCV, or nursing at the University of Virginia or VCU-MCV. Students wishing to train in medical technology at the University of Virginia, Fairfax Memorial Hospital, Memorial Hospital in Danville, or Roanoke Memorial Hospital earn the Bachelor of Science degree from Longwood after three years at Longwood and one year at one of the above named institutions. Students wishing to transfer to other professional programs should contact the pre-professional coordinator. Completion of the Longwood pre-professional or pre-engineering curriculum does not automatically guarantee admission to the professional or engineering school program. Admission to these programs is competitive, and is based on the student's academic performance during the pre-professional period, as well as personal recommendations, and related experience.

The general education requirement of 8 semester hours of natural sciences may be fulfilled by the introductory courses from two of the following areas: biology, chemistry, earth science, and physics.

The department offers courses leading to a major in biology, biology with concentration in environmental science, chemistry, earth science, physics, physics with a concentration in pre-medicine and biophysics; a multi-disciplinary program leading to teaching certification in the three fields of science, mathematics, and physics; courses which meet the requirements in medically oriented pre-professional programs; and pre-engineering programs. The requirements for a major in these disciplines are given below under the appropriate heading.

Qualified majors are encouraged to enroll in the tutorial courses: Special Projects in Natural Sciences, or a program of honors study.

Majors intending to pursue graduate study should consult with appropriate staff members for help in planning the undergraduate programs in such a way to best satisfy the admission requirement of graduate schools.

The earth science and geography program is dual in character in that those subjects which treat primarily the natural systems give earth science credit while those subjects which emphasize the features resulting from human occupancy give social science

credit. Courses in the earth science and geography program are designed to meet certification requirements for teaching in Virginia.

The general education science requirement may be fulfilled by selecting from Earth Science 101, 102, 200, 201, 210, and 211.

The general education social science requirement may be partially fulfilled by selecting basic courses in geography.

Elementary teaching majors must take Earth Science 102, Geography 201, and Science 362.

FACULTY

John M. Austin, *Associate Professor*
B.S., Longwood College; M.Ed., University of Virginia

Patrick George Barber, *Associate Professor*
B.S., Stanford University; Ph.D., Cornell University

Billy S. Batts, *Associate Professor*
B.S., North Carolina State University; M.S., University of Washington; Ph.D., North Carolina State University

Jon David Bergeron, *Assistant Professor*
B.S., University of Maryland; M.Ed., Towson State University

David A. Breil, *Professor*
B.S., M.A., University of Massachusetts; Ph.D., Florida State University

Sandra D. Breil, *Associate Professor*
A.B., University of Vermont; Ph.D., University of Massachusetts

James W. Curley, *Assistant Professor*
B.S., Lacrosse State University; M.A.T., University of North Carolina at Chapel Hill

Louis F. Fawcett, *Associate Professor*
B.S., University of Richmond; M.S., University of North Carolina at Chapel Hill; Ph.D., Virginia Polytechnic Institute

Lynn M. Ferguson, *Instructor*
B.S., East Tennessee State University; M.S., Virginia Polytechnic Institute & State University

John A. Hardy, III, *Assistant Professor*
B.A., M.S., University of Virginia

Alton M. Harvill, Jr., *Professor*
B.S., M.S., University of Kentucky; Ph.D., University of Michigan

Richard L. Heinemann, *Associate Professor*
B.S., Champlain College; M.S., University of Rochester; Ph.D., Medical College of Virginia

Leta Jane Holman, *Professor*
B.S., Texas Technological College; M.S., University of Michigan; Ph.D., University of Maryland

Charles F. Lane, *Professor and Director of Earth Sciences Program*
B.A., M.S., University of Tennessee; Ph.D., Northwestern University

Robert H. Lehman, *Associate Professor, Administrative Assistant to the Dean, Director of Continuing Education & Summer Sessions*
B.S., Bloomsburg State College; M.N.S., Ph.D., University of Oklahoma

Freda S. McCombs, *Associate Professor*
B.S., Salem College; M.Ed., Ed.D., University of North Carolina at Chapel Hill

Maurice H. Maxwell, Jr., *Assistant Professor*
B.S., Emory and Henry College; Ph.D., West Virginia University

Donald A. Merkle, *Assistant Professor*
B.S., M.S., University of Dayton; Ph.D., Miami University

Wayne K. Meshejian, *Assistant Professor*
B.S., Samford College; M.S., Virginia Polytechnic Institute

Earl A. Rubley, *Associate Professor*
B.S., St. Ambrose College; M.S., University of Kentucky

Marvin W. Scott, *Professor and Chairman*
B.S., Hampden-Sydney College; Ph.D., Virginia Polytechnic Institute

Wayne H. Tinnell, *Associate Professor*
B.S., M.S., Ph.D., Virginia Polytechnic Institute

Carolyn Wells, *Professor, Vice President for Academic Affairs and Dean of the College*
B.A., Agnes Scott College; M.S., Ph.D., Emory University

Representatives of our Affiliated Institutions in Medical Technology:

P.M. Allen, M.D., Director of Laboratories, School of Medical Technology, University of Virginia Medical Center

C. Barrie Cook, M.D., Director, School of Medical Technology, The Fairfax Hospital, Falls Church

Richard M. Flick, B.S., M.T., (ASCP), M.S., Educational Coordinator, School of Medical Technology, Memorial Hospital, Danville

James C. Gale, M.D., Director of Laboratories, School of Medical Technology, Roanoke Memorial Hospital

Peggy J. Riner, B.S.M.T. (ASCP), Educational Coordinator, School of Medical Technology, Roanoke Memorial Hospital

D. R. Shupe, B.S.M.T. (ASCP), Educational Coordinator, School of Medical Technology, University of Virginia Medical Center

Jack C. Turner, M.D., Director of Laboratories, School of Medical Technology, Memorial Hospital, Danville

Kathryn F. Wright, B.S.M.T. (ASCP), Educational Coordinator, School of Medical Technology, Fairfax Hospital, Falls Church

BIOLOGY MAJOR B S DEGREE

General Education Requirements

Art, Music, or Dramatic Arts/6 credits
English 100, 101/6 credits
Literature/3 credits
Literature, Philosophy or Religion/3 credits
History 121 or 122/3 credits
Social Science/9 credits
Biology 102/4 credits
Physics 101/4 credits
Mathematics 161, 162/6 credits
Health Education 100/1 credit
Physical Education Activity Courses/3 credits
TOTAL/48 credits

Major Requirements

Chemistry 101, 102 or 205/8 credits
Biology 103/4 credits
Biology 324/4 credits
Biology Electives*/22 credits
TOTAL/38 credits
(*Must include a course in Biology 201 or 202, Biology 302 or 304, Biology 305 or 306 and Biology 409.)

Students seeking the BA degree must take 3 semester hours of one foreign language at the 200 level and choose the humanities elective from Literature, Philosophy or Religion.

The following courses must be taken for teaching certification:

Psychology 250/3 credits
Education 455/3 credits
Education 402, 480, 482, 484, 486, 488/18 credits
TOTAL/24 credits

NOTE: 126 hours are required for graduation, with a cumulative average of 2.0, and a 2.0 average in all major courses. If teaching certification is desired, 128 hours are required for graduation with a cumulative average of 2.0 and a 2.0 average in all major courses.

BIOLOGY MAJOR
(Environmental Science Emphasis)
B S DEGREE

General Education Requirements

Art, Music, or Dramatic Arts/6 credits
English 100, 101/6 credits
Literature/3 credits
Literature, Philosophy or Religion/3 credits
History 121 or 122/3 credits
Geography 201, 252/6 credits
Social Science (other than geography)/
3 credits
Biology 102/4 credits
Physics 101/4 credits
Mathematics 161, 162/6 credits
Health Education 100/1 credit
Physical Education Activity Courses/3 credits
TOTAL/48 credits

Major Requirements

Biology 103/4 credits
Biology 300/4 credits
Biology 301/3 credits
Biology 302/4 credits
Biology 324/4 credits
Biology 490/1 credit
Mathematics 113/3 credits
Chemistry 101, 102/8 credits
TOTAL/31 credits

plus 16 hours from:

Biology 201/4 credits
Biology 202/4 credits
Biology 204/4 credits
Biology 305/4 credits
Biology 306/4 credits
Biology 311/4 credits
Biology 372, 373, 374/2-4 credits
Geography 251/3 credits
Geography 355/3 credits
Chemistry 372/2-4 credits
Physics 102/4 credits

The following courses must be taken for teaching certification:

Psychology 250/3 credits
Education 455/3 credits
Education 402, 480, 482, 484, 486,
488/18 credits
TOTAL/24 credits

Students seeking the BA degree must take 3 semester hours of one foreign language at the 200 level and choose the humanities elective from Literature, Philosophy or Religion.

NOTE: 126 hours are required for graduation, with a cumulative average of 2.0, and a 2.0 average in all major courses. If teaching certification is desired, 128 hours are required for graduation with a cumulative average of 2.0 and a 2.0 average in all major courses.

CHEMISTRY MAJOR
B S DEGREE

General Education Requirements

Art, Music, or Dramatic Arts/6 credits
English 100, 101/6 credits
Literature/3 credits
Literature, Philosophy or Religion/3 credits
History 121 or 122/3 credits
Social Science/9 credits
Chemistry 101/4 credits
Chemistry 201/4 credits
Mathematics 161, 162, 261, or 262/6 credits
Health Education 100/1 credit
Physical Education Activity Courses/3 credits
TOTAL/48 credits

Major Requirements

Physics 101, 102/8 credits
Chemistry 102/4 credits
Chemistry Electives*/20 credits
TOTAL/32 credits
(*Must include courses in the areas of analytical, organic and physical chemistry.)

Students seeking the BA degree must take 3 semester hours of one foreign language at the 200 level and choose the humanities elective from Literature, Philosophy or Religion.

The following courses must be taken for teaching certification:

Psychology 250/3 credits
Education 455/3 credits
Education 402, 480, 482, 484, 486,
488/18 credits
TOTAL/24 credits

NOTE: 126 hours are required for graduation, with a cumulative average of 2.0, and a 2.0 average in all major courses. If teaching certification is desired, 128 hours are required for graduation with a cumulative average of 2.0, and a 2.0 average in all major courses.

CHEMISTRY MAJOR
B S DEGREE
(Professional Degree)

General Education Requirements

Art, Music, or Dramatic Arts/6 credits
English 100, 101/6 credits
Literature/3 credits
Literature, Philosophy or Religion/3 credits
History 121 or 122/3 credits
Social Science/9 credits
Chemistry 101/4 credits
Chemistry 201/4 credits
Mathematics 161, 162, 164, 261 or
262/6 credits
Health Education 100/1 credit
Physical Education Activity Courses/3 credits
TOTAL/48 credits

Major Requirements

Physics 101, 102/8 credits
Mathematics 261, 262/8 credits
Chemistry 102/4 credits
Chemistry 202/4 credits
Chemistry 205, 206/8 credits
Chemistry 371/3 credits
Chemistry 400, 401/8 credits
Chemistry 462/3 credits
Chemistry Electives*/3 credits
TOTAL/51 credits

(*Electives may come from the following courses: Advanced Organic, Toxicology, Radiochemistry, Biochemistry, or a chemistry honors project.)

Courses from the following list are considered desirable electives:

Mathematics 205, 271, 361, 460
Physics 321, 322, 341
Biology 304

Students seeking the BA degree must take 3 semester hours of one foreign language at the 200 level and choose the humanities elective from Literature, Philosophy or Religion.

NOTE: 126 hours are required for graduation, with a cumulative average of 2.0, and a 2.0 average in all major courses.

**EARTH SCIENCE MAJOR
B S DEGREE**

General Education Requirements

Art, Music, or Dramatic Arts/6 credits
English 100, 101/6 credits
Literature/3 credits
Literature, Philosophy or Religion/3 credits
History 121 or 122/3 credits
Social Science/9 credits
Chemistry 101/4 credits
Biology 103/4 credits
Mathematics 161, 162/6 credits
Health Education 100/1 credit
Physical Education Activity Courses/
3 credits
TOTAL/48 credits

Major Requirements

Earth Science 101/4 credits
Earth Science 200, 201/8 credits
Earth Science 210, 211/8 credits
Earth Science 251, 252/6 credits
Earth Science 311/4 credits
Earth Science 355/3 credits
Earth Science Elective/3 credits
TOTAL/36 credits

*The following courses must be taken
for teaching certification:*

Psychology 250/3 credits
Education 455/3 credits
Education 402, 480, 482, 484, 486,
488/18 credits
TOTAL/24 credits

NOTE: 126 hours are required for graduation, with a cumulative average of 2.0, and a 2.0 average in all major courses. If teaching certification is desired, 128 hours are required for graduation with a cumulative average of 2.0 and a 2.0 average in all major courses.

**PHYSICS MAJOR
B S DEGREE**

General Education Requirements

Art, Music, or Dramatic Arts/6 credits
English 100, 101/6 credits
Literature, Philosophy or Religion/3 credits
Literature/3 credits
History 121 or 122/3 credits
Physics 101, 102 or 201, 202/8 credits
Social Science/9 credits
Mathematics 161, 162 or 164/6 credits
Health Education 100/1 credit
Physical Education Activity Courses/
3 credits
TOTAL/48 credits

Major Requirements

Biology 101, Chemistry 101, Earth
Science 102, 200 or 201*/4 credits
Mathematics 261, 262/10 credits
Mathematics 361/3 credits
Mathematics 460/3 credits
Physics 321/4 credits
Physics 331/4 credits
Physics 324, 326 or 341/4 credits
Physics 352/4 credits
Physics Electives/8 credits
TOTAL/44 credits
(*Physics majors not seeking teacher certification must take Chemistry 101, 102 [8 hours] for a total major requirement of 48 hours.)

*The following courses must be taken for
teaching certification:*

Psychology 250/3 credits
Education 455/3 credits
Education 402, 480, 482, 484, 486,
488/18 credits
TOTAL/24 credits

NOTE: 126 hours are required for graduation, with a cumulative average of 2.0, and a 2.0 average in all major courses. If teaching certification is desired, 128 hours are required for graduation, with a cumulative average of 2.0 and a 2.0 average in all major courses.

**PHYSICS MAJOR
(Multidisciplinary Teaching Certification)
B S DEGREE**

(Courses in this program fulfill the certification requirements in the fields of General Science, Mathematics, and Physics.)

General Education Requirements

Art, Music, or Dramatic Arts/6 credits
English 100, 101/6 credits
Literature/3 credits
Literature, Philosophy or Religion/3 credits
History 121 or 122/3 credits
Earth Science 200 or 201/4 credits
Biology 101 or Chemistry 101/4 credits
Social Science/9 credits
Mathematics 161, 162 or 164/6 credits
Health Education 100/1 credit
Physical Education Activity Courses/
3 credits
TOTAL/48 credits

Certification and Major Requirements

Mathematics 261, 262/10 credits
Mathematics 361/3 credits
Mathematics 460/3 credits
Mathematics 235/3 credits
Mathematics 342 or 371/3 credits
Physics 101, 102 or 201, 202/8 credits
Physics 321/4 credits
Physics 331/4 credits
Physics 324, 326 or 341/4 credits
Physics 352/4 credits
Physics Elective/4 credits
TOTAL/50 credits
(Recommended elective: Mathematics 451.)

*The following courses must be taken for
teaching certification:*

Psychology 250/3 credits
Education 455/3 credits
Education 402, 480, 482, 484, 486,
488/18 credits
TOTAL/24 credits
(Education 402 [Directed Teaching] must include student teaching in Mathematics and either General Science or Physics.)

NOTE: 128 hours are required for graduation, with a cumulative average of 2.0, and a 2.0 average in all major courses.

Students seeking the BA degree must take 3 semester hours of one foreign language at the 200 level and choose the humanities elective from Literature, Philosophy or Religion.

PHYSICS MAJOR
(Pre-Medicine and Biophysics Concentration)
B S DEGREE

General Education Requirements

Art, Music, or Dramatic Arts/6 credits
English 100, 101/6 credits
Literature/3 credits
Literature, Philosophy or Religion/3 credits
History 121 or 122/3 credits
Biology 102/4 credits
Chemistry 101/4 credits
Social Science/9 credits
Mathematics 161, 162 or 164/6 credits
Health Education 100/1 credit
Physical Education Activity Courses/
3 credits
TOTAL/48 credits

Major and Concentration Requirements

Biology 102/4 credits
Biology 306/4 credits
Biology 309, 312, or 371/4 credits
Biology 324/4 credits
Chemistry 101/4 credits
Chemistry 205/4 credits
Chemistry 206/4 credits
Mathematics 261, 262/10 credits
Mathematics 460/3 credits
Physics 101, 102 or 201, 202/8 credits
Physics 321, 322/8 credits
Physics 331/4 credits
Physics 341/4 credits
Physics 352/4 credits
Physics Elective/4 credits
TOTAL/76 credits

Students seeking the BA degree must take 3 semester hours of one foreign language at the 200 level and choose the humanities elective from Literature, Philosophy, or Religion.

NOTE: 126 hours are required for graduation, with a cumulative average of 2.0, and a 2.0 average in all major courses.

PRE-ENGINEERING 3 + 2
(Georgia Institute of Technology)
B S or B A Degree in Physics granted by Longwood
B S Degree in Engineering granted by Georgia Institute of Technology

Students in the 3 + 2 Dual Degree Program attend Longwood College for the first three years to complete the major part of the Longwood degree requirements as well as the requirements for the first two years of engineering degree at G.I.T. At the beginning of the fourth year, the student transfers to G.I.T. for the final two years. Upon completing the Longwood requirements at G.I.T., the student receives a bachelor's degree in physics from Longwood, normally at the end of his/her first year at G.I.T. He receives a bachelor's degree in any of the several degree areas offered by the G.I.T. College of Engineering at the end of the fifth year or when all prescribed courses are completed. Thus, in the five-year period, the student earns two bachelor's degrees, one from each institution.

In addition to the Dual Degree Program at the undergraduate level, highly qualified, specially selected students may enter G.I.T. at the end of three or more years at Longwood College with the intent to seek a master's level degree at G.I.T.

General Education Requirements

Art (261, 262; 364; 367) or Music
(not one centered on performance
on a musical instrument)/6 credits
English 100, 101/6 credits
Literature/3 credits
History 121 or 122/3 credits
Government 215 or 455/3 credits
Social Science*/6 credits
Humanities** OR Philosophy 200,
215, 216, 305, 365; Psychology
131, 132, 331, 353/3 credits
Physics 101, 102 or 201, 202/8 credits
Mathematics 161, 162 or 164 (1)/6 credits
Health Education 100/1 credit
Physical Education Activity Courses/3 credits
TOTAL/48 credits

*Economics 202, 231, 232; Government
201, 215, 216, 455; History (any); Socio-
logy 221, 230, 332, 360. At least one
course must come from Economics, His-
tory or Sociology.

**Must come from any of the above
Art, Literature or Music listings.

Major Requirements

Chemistry 101, 102/8 credits
Mathematics 261, 262/10 credits
Mathematics 343, 361, 461/9 credits
Mathematics 460/3 credits
Physics 321/4 credits
Physics 326/4 credits
Physics 331/4 credits
Physics 341/4 credits
Physics 352/4 credits
Physics Elective/4 credits
TOTAL/54 credits

Students seeking the BA degree must take 3 semester hours of one foreign language at the 200 level and choose the humanities elective from Literature, Philosophy or Religion.

NOTE: 126 hours are required for graduation, with a cumulative average of 2.0 and a 2.0 average in all major courses. For the additional 24 hours (2) of course work not specified above, transfer credit will be given by Longwood for 24 hours (3) of courses passed [with grades of "C" or above] in the engineering curriculum upon completion of the first year at G.I.T.

- (1) The student may elect to begin the Mathematics sequence with 261.
- (2) 1.0 semester hours = 1.5 quarter hours.
- (3) 30 semester hours if Mathematics 161, 162 is bypassed.

PRE-ENGINEERING 3 + 3
(Old Dominion University)
B S or B A Degree in Physics granted by Longwood
B S Degree in Engineering granted by Old Dominion University

Students in the 3 + 2 Dual Degree Program attend Longwood College for the first three years to complete the major part of the Longwood requirements as well as the requirements for the first two years of the engineering degree at O.D.U. At the beginning of the summer prior to the fourth year the student transfers to O.D.U. for the final two years. Upon completing the Longwood requirements at O.D.U., the student receives a bachelor's degree in physics from Longwood normally at the end of his/her first year at O.D.U. He receives a bachelor's degree in Civil, Electrical, or Mechanical Engineering from O.D.U. at the end of the fifth year. Thus, in the five-year period, the student earns two bachelor's degrees, one from each institution.

General Education Requirements

Art (160, 261, 262, 361), Music (127, 128, 123, 125, 126, 431, 432), or
Dramatic Arts 100/6 credits
English 100, 101/6 credits
Literature (English 120, 121, 140, or 141)/3 credits
History 121 or 122/3 credits
Social Science*/9 credits
Humanities**/3 credits
Physics 101, 102 or 201, 202/8 credits
Mathematics 161, 162 or 164/6 credits
Health Education 100/1 credit
Physical Education Activity Courses/3 credits
TOTAL/48 credits

*Must come from at least two of the following: Anthropology 101, 102; Economics 202, 231, 232; Geography 251, 252, 201; Government 341, 332, 441, 216; History 111, 112, 121, 122, 353, 354, 356; Sociology 101.

Major Requirements

Chemistry 101, 102/8 credits
Computer Science 205/3 credits
Mathematics 261, 262/10 credits
Mathematics 361, 460/6 credits
Mathematics 343/3 credits
Physics 321/4 credits
Physics 331/4 credits
Physics 326/4 credits
Physics 341/4 credits
Physics 352/4 credits
Physics Elective/4 credits
TOTAL/54 credits

**Must come from any of the above Art, Dramatic Arts, Literature or Music listings; OR Philosophy 200, 300, 215, 216, 360, 365; Psychology 131, 132.

Students seeking the BA degree must take 3 semester hours of one foreign language at the 200 level and choose the humanities elective from Literature, Philosophy or Religion.

NOTE: 126 hours are required for graduation, with a cumulative average of 2.0, and a 2.0 average in all major courses. For the additional 24 hours of course work not specified above, transfer credit will be given by Longwood for 24 hours of courses passed [with grades of "C" or above] in the engineering curriculum upon completion of the first year at O.D.U.

PRE-ENGINEERING 2 + 2
(Old Dominion University)

Longwood College offers a two year pre-engineering program in cooperation with Old Dominion University. Students may seek engineering degrees in any of the several areas offered by O.D.U. Those who perform well in the pre-engineering curriculum may transfer to the School of Engineering in the summer prior to the beginning of the junior year in order to complete the requirements for the bachelor of science in Civil, Electrical or Mechanical Engineering at O.D.U.

General Requirements at Longwood

English 100, 101/6 credits
Humanities*/6 credits
Social Studies**/6 credits
Chemistry 101, 102/8 credits
Physics 201, 202/8 credits
Mathematics 261, 262/10 credits
Computer Science 205/3 credits
Mathematics 361, 460/6 credits
Mathematics 343/3 credits
Physics 331/4 credits
Physics 341/4 credits
Physics 352/4 credits
TOTAL/68 credits

*Art 160, 261, 262, 361; English 120, 121, 140, 141; History 111, 112, 121, 122; Music 127, 128, 123, 125, 126, 431, 432; Philosophy 200, 300, 215, 216, 360, 365; Dramatic Arts 100.

**Anthropology 101, 102; Economics 202, 231, 232; Geography 251, 252, 201; History 121, 122, 353, 354, 356; Government 341, 332, 441, 216; Sociology 101; Speech 200.

PRE-DENTAL HYGIENE
(VCU-MCV)

Requirements

Biology 101/4 credits
Biology 206-207/8 credits
Chemistry 101, 102/8 credits
English 100, 101/6 credits

Psychology 131 or 132/3 credits
Sociology 101/3 credits
Speech 101/3 credits
Electives/25 credits
TOTAL/60 credits

(Recommended elective areas: Microbiology, Organic Chemistry and Statistics.)

PRE-PHARMACY
(VCU-MCV)

Requirements

Biology 102, 103/8 credits
Chemistry 101, 102/8 credits
Economics 202/3 credits
English 100, 101/6 credits

Mathematics 161, 162 or 164, 261/6 credits
Physics 101, 102/8 credits
Electives/24 credits
TOTAL/63 credits

(Only 6 semester hours of electives may be in biology, physics, economics and mathematics. Eighteen hours must be in the humanities, liberal arts, and social sciences. Credits in organic chemistry, business and physical education are not acceptable.)

PRE-PHYSICAL THERAPY
(VCU-MCV)

Requirements

Biology 101, 103/8 credits
Chemistry 101, 102/8 credits
English 100, 101/6 credits
Mathematics 161, 162/6 credits
Social Science*/6 credits
Physics 101, 102/8 credits
Psychology 131 or 132/3 credits
Psychology Elective/3 credits
Electives**/16 credits
TOTAL/64 credits

*Select from Anthropology 101, Economics 202; History 111, 112, 221, 222; Philosophy 260; Sociology 101; Mathematics 113; Psychology 240, 250, 353, 356.

**Recommended electives: Biology 206-207; Physical Education 105, 106; Art 110; Mathematics or Foreign Language.

PRE-OCCUPATIONAL THERAPY
(VCU-MCV)

Requirements

English 100, 101/6 credits
Biology 101/4 credits
Biology 206-207/8 credits
Psychology 131 or 132/3 credits
Psychology 240 or 250/3 credits

Psychology 353/3 credits
Psychology Elective/3 credits
Sociology 101/3 credits
Sociology Elective/3 credits
Electives*/26 credits
TOTAL/62 credits

*Students are encouraged to pursue further study in biology, psychology, and sociology.

PRE-MEDICAL TECHNOLOGY
B S DEGREE granted by Longwood

(Memorial Hospital of Danville, Roanoke Memorial Hospital,
University of Virginia Medical Center)

General Education Requirements

Art, Music, or Dramatic Arts/6 credits
English 100, 101/6 credits
Literature/3 credits
Humanities Elective/3 credits
History 121 or 122/3 credits
Social Science Electives/9 credits
Biology 101/4 credits
Chemistry 101/4 credits
Mathematics 161, 162/6 credits
Health Education 100/1 credit
Physical Education Activity Courses/3 credits

Major Requirements (Longwood)

Biology 103/4 credits
Biology 206-207/8 credits
Biology 309/4 credits
Chemistry 102/4 credits
Chemistry 205/4 credits
Chemistry 206, 201, or 202/4 credits
Electives/24 credits
TOTAL/48 credits

Major Requirements (affiliated schools)

University of Virginia/38 credits
Roanoke Memorial Hospital/32 credits
Danville Memorial Hospital/45 credits

Information concerning curriculum at the hospitals, expenses, financial aid, etc., is available from the medical technology advisor.

PRE-MEDICAL TECHNOLOGY
(VCU-MCV)

Requirements

Biology 101/4 credits
Biology Elective/4 credits
Biology 206-207/8 credits
Chemistry 101, 102/8 credits
Chemistry 205/4 credits

Chemistry 201 or 206/4 credits
English 100, 101/6 credits
Mathematics 161/3 credits
Electives*/9 credits
TOTAL/60 credits

*Select from Humanities and Social Sciences. Mathematics 162 and Physics are strongly recommended.

PRE-NURSING CURRICULUM
(VCU-MCV, U.Va.)

Requirements

Biology 101/4 credits
Biology 206-207/8 credits
Chemistry 101, 102/8 credits
Mathematics 113 or 161/3 credits
English 100, 101/6 credits
Philosophy 200 or 300/3 credits
Philosophy 365/3 credits
Speech 100/3 credits

History/6 credits
Psychology 131 or 132/3 credits
Psychology 240, 250/6 credits
Sociology 101/3 credits
Geography 201/3 credits
Social Science Elective/3 credits
Elective (physical education course acceptable)/1-3 credits
TOTAL/60 credits

*Select from anthropology, psychology, sociology, political science, geography, and government.

Exceptional students may apply for transfer to U.Va. after one year at Longwood with appropriate course selection.

PRE-MEDICAL CURRICULUM
(VCU-MCV, U.Va.)

Pre-medical students major in Biology, Chemistry, or Physics. Since requirements of medical schools vary considerably, students should communicate with the pre-medical curriculum adviser.

PRE-DENTISTRY
(VCU-MCV)

Pre-dentistry students major in Biology, Chemistry, or Physics. The entrance requirements at MCV should be followed closely by all pre-dentistry students.

MINORS

**BIOLOGY, CHEMISTRY, EARTH SCIENCE,
GEOGRAPHY AND PHYSICS**

The department offers minors in biology, chemistry, earth science, geography, and physics. Students may choose to use their elective hours to pursue a minor program in a field not directly related to their major. Minor programs are listed below and range from 19-24 hours. Students who are interested in pursuing a minor should contact the chairman of the department.

BIOLOGY

8 semester hours at the 100 level
12 semester hours at the 200 level or above
TOTAL/20 hours
(This does not meet certification requirements.)

CHEMISTRY

8 semester hours general chemistry
8 semester hours organic chemistry
4 semester hours analytical chemistry
4 semester hours physical chemistry
TOTAL/24 hours
(Meets certification requirements.)

EARTH SCIENCE

Earth Science 251/3 credits
Earth Science 200 or 201/4 credits
Earth Science 210, 211/8 credits
Earth Science 311/4 credits
Earth Science Electives/5 credits
TOTAL/24 credits
(Meets certification requirements.)

GEOGRAPHY

Geography 201/3 credits
Geography 358/3 credits
Geography 241, 242, 444, or 450/3 credits
Geography 353, 401, 402, 403, 404, 405, or 453/3 credits
Geography 251, 252, 355 or 410/3 credits
Geography Elective/3 credits
TOTAL/18 credits
(To meet certification requirements, Economics 202 is also required.)

PHYSICS

8 semester hours general physics
12 semester hours advanced physics courses, Mathematics 261, 262 required in most of these courses
TOTAL/20 hours
(Exceeds certification requirements for mathematics and science majors.)

DEPARTMENT OF SOCIAL WORK

George C. Stonikinis, Jr., *Chairman*

The Department of Social Work provides an undergraduate course of study of unique and personalized instruction accredited by the Council on Social Work Education, leading to the Bachelor of Science or Bachelor of Arts in Social Work. (For those students seeking a B.A. degree, three semester hours in one foreign language must be taken at the 200 level.) The curriculum prepares individuals for admission into accelerated one-year M.S.W. degree programs or entry into the expanding opportunities of first level professional practice according to the standards of the National Association of Social Workers. The specific aims of the Social Work Program are: (1) to provide students with opportunities to obtain knowledge, attitudes and skills appropriate for social work practice at the baccalaureate level, and (2) to offer a background preparation for students intending to enter a graduate professional school of social work.

Courses are designed to help students become directly familiar with diverse social problems, and to participate in the delivery of social services to individuals, small groups, families, organizations and/or communities by developing a knowledge and skill-base in the following:

Administration	Consultation	Planning	Social Action
Casework	Education	Program Development	Staff Development
Community Development	Fund-Raising	Psychotherapy	Supervision
Community Organization	Group Work	Rehabilitative Counseling	Teaching
Community Relations	Personnel	Research	Writing

Upon graduation, some of the possible areas of employment our graduates have successfully pursued are:

Adoptions	Family Services	Legal Aid	Protective Services
Adult Probation	Federal Probation	Leisure Services	Psychiatric Services
Alcohol and Drug Abuse	Foster Care	Medical Social Work	Public Assistance
Community Action Programs	Geriatrics	Mental Health Clinics	Public Health
Community Centers	Health and Welfare Councils	Mental Hospitals	Rehabilitative Services
Comprehensive Social Services	Immigration Services	Mental Retardation	School Social Work
Corrections	International Social Work	Migrant Communities	Seminary
Day Care	Juvenile Probation	M.S.W. Programs	Settlement Houses
Dependent/Neglected Children	Labor Relations	Neighborhood Services	State and Federal Lobbying
Domestic Relations Court	Law School	Personnel Administration	Veterans Services
Employment Counseling			YWCA-UMCA

The Social Work Program at Longwood College is designed around the concept of the "generalist worker"; one who is prepared to practice in a wide variety of social services settings. The faculty of the Social Work Program reflect this Orientation. Additionally, the department individualizes much of the student's education and growth as he develops a professional knowledge, skill and attitude base through periodic personalized evaluations and discussions with the entire staff.

Junior Field Instruction consists of an agency placement concurrent with integrative course work and involves 180 hours of instruction in a field setting. A grade point average of 2.0 (C) in the major and overall is required for placement in a field instruction setting. Students transferring into the program later in their academic pursuits are provided with the accelerated 9½-week summer program. Senior Field Instruction usually occurs during the last semester and consists of 600 hours (15 weeks, 40 hours per week), of field instruction in an agency setting. These placements are readily available throughout the state and many students choose to live at home during this experience, thus saving money and preparing for graduation and the transition to career pursuits.

FACULTY

George C. Stonikinis, Jr., *Assistant Professor and Chairman*
B.S., M.S., Virginia Polytechnic Institute and State University; M.S.W., Virginia Commonwealth University

Sarah V. Young, *Assistant Professor*
A.B., Greensboro College; M.S.W., University of North Carolina at Chapel Hill

**SOCIAL WORK MAJOR
B S DEGREE**

General Education Requirements

Art, Music, or Dramatic Arts/6 credits
English 100, 101/6 credits
Literature Elective/3 credits
Humanities Elective/3 credits
History 121 or 122/3 credits
Economics 231-232/6 credits
Mathematics 113 and Electives/6 credits
Biology 101 and 323/8 credits
Anthropology 101/3 credits
Health Education 100/1 credit
Physical Education Activity Courses/3 credits
TOTAL/48 credits

Major Requirements

Government 215 or 216/3 credits
Psychology 131 and 222/6 credits
Sociology 101 and 332/6 credits
Social Work 101/3 credits
Social Work 102/3 credits
Social Work 240/3 credits
Social Work 280-281/6 credits
Social Work 310/3 credits
Social Work 320/3 credits
Social Work 336/3 credits
Social Work 335/1 credit
Social Work 339/5 credits

Social Work 340/1 credit
Social Work 415/3 credits
Social Work 427/3 credits
Social Work 400/12 credits
Social Work 401/2 credits
Social Work 404/1 credit
Social Work 407/1 credit
*Electives/12 credits
TOTAL/80 credits
(*Recommended: Social Work, Sociology, Economics, Business.)

NOTE: 128 hours are required for graduation, with a cumulative average of 2.0, and a 2.0 average in all major courses.

DEPARTMENT OF SOCIOLOGY AND ANTHROPOLOGY

Jerry D. Cardwell, *Chairman*

The Department of Sociology and Anthropology offers an undergraduate major in the field of sociology and undergraduate minors in sociology and in anthropology. Students majoring in sociology may earn either the B A or B S degree.

The department occupies offices and classrooms in Hiner Hall. The administrative office of the department is located in Room 207, Hiner Hall. An important facility maintained by the department is the Sociology Seminar Room, containing a collection of periodicals, books, and graduate catalogs for use by sociology majors and students minoring in sociology and anthropology.

Through a variety of activities, the department attempts to provide its students with a program of breadth and depth characteristic of the Longwood educational experience. The department provides scholarly and cultural enrichment to both the local and academic communities through its annual Visiting Scholar Series and its annual Anthropology Film Series. The department sponsors an active Sociology and Anthropology Club and a chapter of Alpha Kappa Delta, the International Sociology Honorary Society. The faculty and students of the department also publish the *Longwood Review of Sociology and Anthropology*, a scholarly journal for students and professionals from the areas of sociology and anthropology. In addition, each academic year the departmental faculty chooses an outstanding sociology student to receive the Kathleen G. Cover Fund Award.

The departmental curriculum is designed to provide educational enhancement for students who plan to (1) seek employment in business, industry, government service, or related fields, (2) pursue advanced studies in law, public relations, urban planning, or related fields, (3) engage in graduate work in sociology or anthropology, or (4) pursue undergraduate studies to enhance their understanding of the organization and functioning of human societies.

All sociology majors are required to take a core program of courses in sociology. The core program of study contains the following course work: Sociology 101, 102, 245, 345, 390, and 24 semester hours of sociology electives; Anthropology 101, 102. Additionally, Sociology 220 is highly recommended for sociology majors interested in pursuing graduate work in sociology.

All sociology minors are required to complete 18 hours of work in sociology including the following: Sociology 101, 102, 345, 390, and 6 semester hours of sociology electives. Students interested in a minor in sociology should contact Mr. Lawrence G. Hlad, Coordinator of Sociology Minor programs, Department of Sociology and Anthropology.

Students minoring in anthropology are required to complete 18 hours of work in anthropology including the following: Anthropology 101, 102, 202, 310, and six hours of anthropology electives. Students interested in a minor in anthropology should contact Dr. James William Jordan, Coordinator of Anthropological Studies, Department of Sociology and Anthropology.

SPECIAL PROJECTS. The Longwood Folk History Project, under the direction of Dr. James William Jordan, was initiated in the 1978-79 academic year to examine the cultural and social factors important in the evolution of Longwood College from its founding to the present. The Project Staff, while supervised by Dr. Jordan, is composed of undergraduate students with an interest in anthropology and sociology and such students are encouraged to apply. The Project Staff is engaged in the collection of oral traditions, documentary evidence from diaries, personal journals, and letters; oral folklore and folk history remembered by early graduates and faculty and staff.

The Department also houses the Center for Research on Religiosity. Under the direction of Dr. Jerry D. Cardwell, the Center will be engaged in ongoing research for the purpose of assessing the social and social psychological correlates of religious commitment in Prince Edward County and surrounding areas. The Center will conduct periodic surveys designed to assess the structure, form, and content of religious commitment and to detect any major changes in patterns of religious commitment.

Every attempt has been made to state the major and minor requirements of the department as clearly as possible. However, it is strongly recommended that every student majoring or minoring in the department maintain close communication with the academic adviser assigned by the department in order to plan his program in a fashion best suited to the student's individual goals and needs. The faculty of the department stands ready to assist any student in this regard.

General Education Requirements — General Education requirements for the student majoring in sociology can be found in the

departmental publication "A Guide to Majors and Prospective Majors in Sociology," and under "General Education Requirements" in this catalog. It is the responsibility of each student to consult with his/her academic adviser prior to each registration to ensure the proper fulfillment of general education and departmental requirements for graduation. Students minoring in sociology or anthropology must satisfy the general education requirements of the department of their major subject.

FACULTY

Jerry D. Cardwell, *Associate Professor and Chairman*

B.A., University of Alabama; M.A., University of Maine; Ph.D., University of Utah

Mary G. Cristo, *Associate Professor*

B.S., M.A., Ph.D., University of Virginia

Lawrence G. Hlad, *Assistant Professor*

B.A., M.A., Boston University; M.A., Princeton University

James W. Jordan, *Associate Professor*

B.S., Indiana University of Pennsylvania; M.S., University of Connecticut; Ph.D., University of Georgia

Henry K. Townsend, *Instructor*

B.A., Catawba College; M.A., University of North Carolina at Greensboro; Ph.D., Emory University

SOCIOLOGY MAJOR B A DEGREE

General Education Requirements

Art, Music or Dramatic Arts/6 credits
English 100, 101/6 credits
Literature/3 credits
Foreign Language (200-level)/3 credits
Humanities Elective/3 credits
History 121 or 122/3 credits
Health Education 100/1 credit
Mathematics or Mathematics & Computer Science/6 credits
Biological Science/4 credits
Physical Science/4 credits
Social Science/9 credits
Physical Education Activity Courses/3 credits
TOTAL/51 credits

Major Requirements

Sociology 101/3 credits
Sociology 102/3 credits
Sociology 245/3 credits
Sociology 345/3 credits
Sociology 390/3 credits
Sociology Electives/24 credits
Anthropology 101, 102/6 credits
TOTAL/45 credits

*Select from History, Government, Economics, or Geography.

NOTE: Requirements for the Sociology major, B S Degree, are the same as for B A Degree, except that Foreign Language (200-level) is *not* required.

SOCIOLOGY MAJOR Pre-Law Concentration B S DEGREE

Major Requirements

Sociology 101/3 credits
Sociology 102/3 credits
Sociology 245/3 credits
Sociology 335/3 credits
Sociology 381/3 credits
Sociology 383/3 credits
Sociology 390/3 credits
Anthropology 101/3 credits
Anthropology 202/3 credits
Sociology Electives*/19 credits
TOTAL/46 credits

*Recommended: Sociology 331, 332, 360, 441, 443.

SOCIOLOGY MAJOR Pre-Medicine Concentration B S DEGREE

Major Requirements

Sociology 101/3 credits
Sociology 102/3 credits
Sociology 245/3 credits
Sociology 345/3 credits
Sociology 365/3 credits
Sociology 381/3 credits
Sociology 382/3 credits
Sociology 383/1 credit
Anthropology 101/3 credits
Anthropology 202/3 credits
Sociology Electives/18 credits
TOTAL/46 credits

NOTE: 126 hours are required for graduation, with a 2.0 cumulative average and a 2.0 average in all major courses. If teaching certification is desired, 128 hours are required for graduation with a cumulative average of 2.0, and a 2.0 average in all major courses.

Courses Highly Recommended for the Pre-Law Concentration

Government 216, 332, and 455/9 credits
Business 241, 242/8 credits
Economics 356/3 credits
Philosophy 200, 300, 305/9 credits
Speech 200/3 credits
TOTAL/32 credits

NOTE: 126 hours are required for graduation, with a cumulative average of 2.0, and a 2.0 average in all major courses.

General Education Requirements

Music 123 and Art 262 or 361/6 credits
English 100, 101/6 credits
Literature/3 credits
Psychology 131/3 credits
History 121 or 122/3 credits
Economics 231-232/6 credits
Government 215/3 credits
Biology 103 and 104/8 credits
Mathematics 111/3 credits
Computer Science 201/3 credits
Health Education 100/1 credit
Physical Education Activity Courses/3 credits
TOTAL/48 credits

General Education Requirements

Anthropology 102/3 credits
Music 123 and Art 262 or 361 or 362/6 credits
English 100, 101/6 credits
Literature/3 credits
Psychology 132/3 credits
Biology 103 and 304 or 324/8 credits
Mathematics 261, 262/10 credits
Health Education 100/1 credit
History 121 or 122/3 credits
Social Sciences*/6 credits
Physical Education Activity Courses/3 credits
TOTAL/52 credits

*Select from History, Economics and Government.

Suggested Pre-Medical Courses

Chemistry 101, 102/8 credits
Physics 101, 102 or 201, 202/8 credits
Chemistry 205, 206/8 credits
Chemistry 212 or Biology 215*/4 credits
TOTAL/28 credits
*Hampden-Sydney Course.

NOTE: 126 hours are required for graduation, with a cumulative average of 2.0, and a 2.0 average in all major courses.

MINOR IN SOCIOLOGY

General Education Requirements

See appropriate listing of requirements for the department in which the major is taken.

*Minor Requirements**

Sociology 101/3 credits
Sociology 102/3 credits
Sociology 345/3 credits
Sociology 390/3 credits
Sociology Electives/3 credits

*This minor is designed for any student outside of the department who has an interest in selecting a minor in sociology.

MINOR IN ANTHROPOLOGY

General Education Requirements

See appropriate listing of requirements for the department in which the major is taken.

*Minor Requirements**

Anthropology 101/3 credits
Anthropology 102/3 credits
Anthropology 202/3 credits
Anthropology 310/3 credits
Anthropology Electives/6 credits

*A student minoring in anthropology will not be allowed to count Anthropology 321 and Anthropology 443 toward a minor or major in sociology.

DEPARTMENT OF SPEECH AND DRAMATIC ARTS

Patton Lockwood, *Chairman*

The department offers a major in dramatic arts and, in conjunction with the University of Virginia, the department also offers a program that leads to a major in speech pathology. This major requires the student to spend three years at Longwood College and a fourth year in residence on the campus of the University of Virginia. A minor in dramatic arts and a minor in speech are also offered.

Courses in speech offer the student an opportunity to learn to express ideas clearly, logically, and persuasively. In addition to its major program, the department offers to all students with varying interests basic courses to develop these skills: public speaking, oral interpretation, and forensics (Speech 101, 312, 403). These courses may be selected without prerequisite, and are designed for those planning to enter occupations which require effective speech communication such as teaching, business administration, personnel work, social work, and government service. These courses provide training in gathering, analyzing, and organizing evidence, with proper regard to logical and psychological factors important in audience situations, and in developing effective delivery. Videotape facilities are available and may be used in evaluating speech performance.

The dramatic arts major offers the student an opportunity to explore all facets of theatrical work. The program provides the student with a balanced study program that includes the learning of performance and technical skills as well as literary and historical traditions that are unique to the theatre. The program is designed to train students and directors in an educational setting. Students develop a professional attitude toward their work, an appreciation of good theatre and dramatic literature, and critical standards of judgment through course work and participation in major theatre productions as performers or technicians.

For non-majors, courses in the dramatic arts offer the student an insight into human character and life as reflected in dramatic literature, and create an awareness of the relationship of theatre to the individual's life, the society, and the human condition. Non-majors may also participate and receive academic credit for work in the major theatrical productions of the Longwood Players and the Department of Speech and Dramatic Arts.

Certification

For any major desiring certification in speech or dramatic arts, six additional semester hours are required in each field beyond the basic hours required for the major. Certification to teach separately speech or dramatic arts requires 12 semester hours of work in each field. For speech the 6 or 12 hours may be obtained from any of the course offerings in speech, for dramatic arts the 6 hours must include Dramatic Arts 201 and 301; and the 12 hours must include Dramatic Arts 201, 202, 267, and 301.

NOTE: The department does not guarantee that all of the courses will be offered every year.

FACULTY

Nancy D. Anderson, *Assistant Professor*
B.S., Westhampton College; M.A.,
Longwood College; Ed.D., University
of Virginia

Richard J. Gamble, *Instructor*
B.F.A., Stephens College; M.A.,
University of Illinois

Patton Lockwood, *Professor and Chairman*
B.A., Oberlin College; M.Ed., University
of Virginia; Ph.D., Michigan State Uni-
versity

Robert J. Woodburn, *Assistant Professor*
B.S., Concord College; M.A., Marshall
University; Ed.D., University of Virginia

Douglas M. Young, *Associate Professor*
B.A., M.A., University of North
Carolina at Chapel Hill; M.A., Uni-
versity of Virginia; Ph.D., Florida
State University

DRAMATIC ARTS MAJOR

B A DEGREE

General Education Requirements

Art or Music/6 credits
English 100, 101/6 credits
Foreign Language at the 200-level/3 credits
Literature/3 credits
Literature, Philosophy or Religion/3 credits
History 121 or 122/3 credits
Social Science/9 credits
Mathematics/6 credits
Biological Science/4 credits
Physical Science/4 credits
Health Education 100/1 credit
Physical Education Activity Courses/3 credits
TOTAL/48 credits

Major Requirements

Speech 403/3 credits
Dramatic Arts 201, 202/8 credits
Dramatic Arts 223/3 credits
Dramatic Arts 301-302/6 credits
Dramatic Arts 305, 306/6 credits
Dramatic Arts 267/3 credits
Dramatic Arts Electives*/9 credits
TOTAL/38 credits

*Select 6 credits from Dramatic Arts 268, 269, 307 or 527. Select 3 credits from Speech 311, Dramatic Arts 303, 304, 308, 309, 357, 358, or 404.

NOTE: Dramatic Arts majors are expected to earn at least 4 credits in play production.

*Students wishing to seek the B S degree must request permission from the Department Chairman.

NOTE: 126 hours are required for graduation, with a cumulative average of 2.0, and a 2.0 average in all major courses.

SPEECH PATHOLOGY

(University of Virginia)

B S or B A DEGREE AWARDED BY LONGWOOD

General Education Requirements

Art, Music, or Dramatic Arts/6 credits
English 100, 101/6 credits
Literature/3 credits
Literature, Philosophy or Religion/3 credits
History 121 or 122/3 credits
Social Science/9 credits
Mathematics 111 or 161/3 credits
Mathematics 113/3 credits
Biology 101 or 103/4 credits
Biology 206/4 credits
Health Education 100/1 credit
Physical Education Activity Courses/3 credits
TOTAL/48 credits

Major Requirements at Longwood

Biology 207/4 credits
Psychology 131 or 132/3 credits
Psychology 240/3 credits
Psychology 250/3 credits
Psychology 422, 423 or 523/3 credits
Speech 100/3 credits
Speech 101/3 credits
Speech 304/3 credits
Speech 307/3 credits
Speech Electives/6 credits
TOTAL/34 credits

Major Requirements at U. of Virginia

Speech Education 103, 104/4 credits
Speech Education 106/3 credits
Speech Education 107/3 credits
Speech Education 108/3 credits
Speech Education 121/3 credits
Speech Education 131/3 credits
Speech Education 132/3 credits
Speech Education 133/3 credits
Speech Education 140/3 credits
Speech Education 151/3 credits
TOTAL/31 credits

Students seeking the B A degree must take 3 semester hours of one foreign language at the 200 level and choose the humanities elective from Literature, Philosophy or Religion.

NOTE: 126 hours are required for graduation, with a cumulative average of 2.0, and a 2.0 average in all major courses.

MINOR IN DRAMATIC ARTS

18 hours in Dramatic Arts, including:

Dramatic Arts 201
Dramatic Arts 267
Dramatic Arts 305 or 306
Electives/8 hours

MINOR IN SPEECH

18 hours in Speech, including:

Speech 100
Speech 101
Speech 200
Electives/9 hours

JOHN P. WYNNE CAMPUS SCHOOL

Crayton L. Buck, *Director*

The Wynne Campus School is the college's human resource laboratory for the teacher education program and related programs in arts and sciences. The school offers a rich learning environment for 200 students enrolled in grades K-7. Children of varied ethnic, intellectual and social backgrounds comprise the school population. The school is committed to helping children become self-motivated learners who can set and meet their own goals. To facilitate this goal, emphasis is placed upon the interdependence of social, emotional, physical and intellectual growth.

The school provides a controlled environment whereby prospective teachers are provided many opportunities to teach, participate with and observe children and to try out new ideas. The school is also concerned with investigation and experimentation with curricula, materials of instruction and in-service education of teachers.

FACULTY

Carolyn R. Banton, *Instructor*
B.S., Indiana University; M.Ed.,
University of Virginia

Crayton L. Buck, *Professor and
Director of Campus School*
B.S., Lockhaven State College;
M.Ed., Ed.D., Pennsylvania State
University

Toy D. Dowdy, *Assistant Professor*
B.S., M.S., Longwood College
Mary Meade Edwards, *Director of
Reading*
B.S., M.S., Longwood College

Gail L. Gilligan, *Assistant Professor*
A.B., Greensboro College; M.S., Long-
wood College

Phyllis M. Groneweg, *Assistant Professor*
B.S., M.A., Longwood College

Derwood F. Guthrie, *Assistant Professor*
B.S., Longwood College; M.A., Uni-
versity of Delaware

Rita P. Howe, *Assistant Professor*
B.S., M.S., University of Maine;
M.A., Ed.D., Western Michigan
University

Cecil M. Kidd, *Assistant Professor and
Librarian*
B.S., M.S., Longwood College

Cathy O. McCanless, *Instructor and
Director of Music*

B.M.E., Longwood College; M.M.E.,
Virginia Commonwealth University
Gretchen Unterzuber, *Instructor*
B.S., Radford College; M.Ed., Virginia
Commonwealth University

Mary Wallace Wacker, *Assistant Professor*
B.A., Birmingham Southern College;
M.S., Longwood College

Jacqueline J. Wall, *Instructor and Director
of Art*
B.A., Westhampton College; M.Ed.,
Virginia Commonwealth University

LISTING OF COURSES BY DISCIPLINE

ANTHROPOLOGY (01)

**Anthropology 101. INTRODUCTION TO ANTHROPOLOGY*

The study of the origins, evolution, and present biological and cultural diversity of the human species using data from the fossil record, archeological artifacts, the structure of languages, and the behavior and worldview of people living in other cultures. 3 credits; offered every semester.

**Anthropology 102. ARCHEOLOGY AND PHYSICAL ANTHROPOLOGY*

A study of the origins of the human species focusing on human evolution, prehistoric artifacts, primate characteristics, archeological evidence of the diffusion of human populations, and the origins and spread of domesticated plants and animals. The main aim of the course is to give a summary of what we know of human development during the four million years of human prehistory. 3 credits; offered spring semester of every year.

Anthropology 202. CULTURAL PATTERNS IN PRE-INDUSTRIAL SOCIETIES

A cross-cultural analysis and comparison of selected societies applying the principles of cultural anthropology. Prerequisite: Anthropology 101 or permission of instructor. 3 credits; offered fall semester of every year.

Anthropology 210. PEOPLES OF AFRICA

An analysis of the human cultures of prehistoric and contemporary Africa. Archeological and linguistic data will be used to trace the biological and cultural relationships among contemporary African societies. Prerequisite: Anthropology 101 or permission of instructor. 3 credits; offered fall semester of even years.

Anthropology 211. INDIANS OF NORTH AMERICA

This course will be concerned with descriptions, comparisons, and analysis of past and present Indian cultures. The possible origins of the various North American Indian tribes will also be discussed and will be supported by the use of archeological and linguistic data. Prerequisite: Anthropology 101 or permission of instructor. 3 credits; offered spring semester of even years.

Anthropology 310. RESEARCH METHODS IN CULTURAL ANTHROPOLOGY

An examination of the methods employed by cultural anthropologists in their gathering and analysis of material on the behavior of people living in other cultures. Methods surveyed include participant observation, analysis of speech patterns, collection of genealogies, mapping, collection of oral histories, semantic analysis and the eliciting of symbol systems. Prerequisite: Anthropology 101 or permission of instructor. 3 credits; offered spring semester of odd years.

Anthropology 320. FOLKLORE

The oral techniques used in nonliterate cultures to pass traditions from generation to generation. The forms and functions of folktales, proverbs, chants, curses, folksongs, riddles and games in non-Western cultures. 3 credits; offered fall semester of odd years.

Anthropology 321 (Sociology 321). THE SOCIOLOGY OF RELIGION

An investigation of the social aspects of religion, its forms of organization, and its relationships to other institutions. Religious commitment as a social psychological phenomenon is given considerable attention. Prerequisite: 6 hours of sociology or anthropology or permission of instructor. 3 credits; offered spring semester of odd years.

Anthropology 443 (Sociology 443). THE COMMUNITY

Review of theories of community and analysis of representative community studies. Limited to juniors and seniors except by permission of instructor. Prerequisite: 6 hours of sociology or anthropology. 3 credits; offered spring semester of even years.

Anthropology 490. DIRECTED STUDY IN ANTHROPOLOGY

Recommended when the student desires to pursue a specialized topic in-depth. Must have permission of departmental chairman and the instructor directing the course. 3 credits each semester; no more than 6 credits may be earned in Anthropology 490.

ART (02)

**Art 110. CRAFTS*

An understanding of the basic principles and techniques of functional and decorative hand crafts in various cultures and their humanistic relationship to society. Exploration of a variety of techniques, materials and tools utilized in the production of craft objects. 4 periods a week; 3 credits.

**Art 120. BASIC DESIGN*

Understanding the basic principles and elements of design through inquiry into the sources and terms of creative expression in two and three dimensions. 4 periods a week; 3 credits.

**Art 130. DRAWING I*

Fundamentals of drawing, composition, and illustration in various media and techniques. 4 periods a week; 3 credits.

**Art 131. LIFE DRAWING*

Development of concepts, skills, and drawing techniques utilizing the human figure. 4 periods a week; 3 credits.

*Recommended for General Education

***Art 155. BASIC PROCESSES AND PRINCIPLES OF PHOTOGRAPHY**

An introduction to the basic processes, principles and history of black and white still photography. Students must furnish their own adjustable 35 mm cameras. 4 periods a week; 3 credits.

***Art 160. INTRODUCTION TO THE VISUAL ARTS**

A study and analysis of the visual arts emphasizing the relationship of painting and sculpture to society. Major artists and periods of western art from prehistoric to contemporary are covered. 3 periods a week; 3 credits.

Art 200. DESIGN FOR DAILY LIVING

Use of art principles as they relate to environment. Constructing, decorating, and examining articles which enhance the quality of living. 4 periods a week; 3 credits.

Art 211. ART FOR SPECIAL POPULATIONS

A concentrated study of theory, techniques, and materials suitable for use in therapeutic recreation settings. Recommended for Therapeutic Recreation majors. 4 periods a week; 3 credits.

***Art 213. CERAMICS**

Forming, decorating, glazing and firing pottery. 4 periods a week; 3 credits.

***Art 214. CERAMICS II**

Opportunities for deeper involvement with, and exploration of, wheel throwing techniques, hand building processes, as well as glazing and firing of creative ceramic work. Prerequisite: Art 213. 4 periods a week; 3 credits.

***Art 215. FABRICS AND FIBERS**

Exploration in the use of fibers, fabrics, and dyes in techniques such as spinning, weaving, knotting in macrame, batiks, tie-dying, stitchery, collage, and printing on fabric as design media in art. 4 periods a week; 3 credits.

***Art 221. DESIGN FOR COMMUNICATION**

Further exploration of the elements of design with emphasis on package design, graphic reproduction and color separation, principles of layout design, typography and general advertising. 4 periods a week; 3 credits.

***Art 223. THREE-DIMENSIONAL DESIGN**

Investigation and construction of three-dimensional forms in such media as paper, wire, wood, metal, plastics, rope, and twine. Understanding and designing of forms as they relate to architecture, sculpture and industrial design. 4 periods a week; 3 credits.

***Art 224. DESIGN IN WOOD**

Construction of functional and non-functional wood objects with emphasis on original design and basic working techniques, including use of power tools. 4 periods a week; 3 credits.

***Art 250. PRINTMAKING I**

Exploration of traditional and contemporary printmaking techniques, processes and materials, including stencil, planographic, relief, and intaglio methods. 4 periods a week; 3 credits.

***Art 251. PRINTMAKING II**

Exploration of printmaking as a medium of original expression with emphasis on relief and intaglio processes. 4 periods a week; 3 credits.

***Art 256 (English 256). FILM STUDIES I: HISTORY**

A survey of the first fifty years of the motion picture with emphasis upon the major directors of America, Germany, Russia and France. 4 periods a week; 3 credits.

***Art 257 (English 257). FILM STUDIES II: GENRE**

A study of the avant-garde, documentary, and fiction film with emphasis upon American and foreign filmmakers. 4 periods a week; 3 credits.

***Art 258. FILM STUDIES III: THEORY AND CRITICISM**

A study of the major film theorists and critics with practical experience in film criticism, selection, and evaluation. Prerequisite: Film Studies I or II. 4 periods a week; 3 credits.

***Art 261. HISTORY OF PREHISTORIC, ANCIENT AND MEDIEVAL ART IN THE WESTERN WORLD**

Three periods a week; 3 credits.

***Art 262. HISTORY OF WESTERN ART FROM THE RENAISSANCE TO THE 19th CENTURY**

Three periods a week; 3 credits.

***Art 270. PAINTING I**

Fundamentals of painting involved in subject matter, composition, and materials through the use of acrylics. Investigation into backgrounds of contemporary painting. Emphasis on individual growth. Open to beginners. 4 periods a week; 3 credits.

***Art 271. PAINTING II**

Continuation of Painting I. Use of several media including acrylics, watercolors, and oils. 4 periods a week; 3 credits.

***Art 310. EXPLORATORY CERAMICS**

Introduction to basic handbuilding techniques in clay such as pinch, slab and coil methods, as well as clay preparation, glazing and firing methods. 4 periods a week for 5 weeks; 1 credit.

***Art 311. ENAMELS**

The design and production of vitreous enamels using copper as the metal base. 4 periods a week; 3 credits.

***Art 313. JEWELRY AND METAL WORK**

Construction of jewelry and objects of silver and other metals with emphasis on original design and basic techniques. 4 periods a week; 3 credits.

***Art 314. JEWELRY AND OTHER FORMS OF BODY ADORNMENT**

A variety of materials and techniques used to form shapes that enhance the human form. 4 periods a week for 5 weeks; 1 credit.

***Art 316. SPINNING AND WEAVING**

Basic spinning and weaving techniques carrying fibers from their natural state to finished decorative or functional pieces. 4 periods a week for 5 weeks; 1 credit.

***Art 317. BATIK AND RESIST TECHNIQUES**

Traditional and contemporary resist techniques used to decorate fabrics with emphasis on design. 4 periods a week for 5 weeks; 1 credit.

*Recommended for General Education

***Art 318. TIE-DYING WITH NATURAL AND COMMERCIAL DYES**

Tie-dying as a means of decorating fabrics using both natural and commercial materials and dyes. 4 periods a week for 5 weeks; 1 credit.

***Art 320. MAN USES WHAT IS AVAILABLE**

An exploratory two- and three-dimensional approach to the use of everyday materials to express creative ideas. 4 periods a week for 5 weeks; 1 credit.

***Art 321. PUPPET MAGIC**

Exploring human feelings through masks and puppets made in a variety of techniques and materials. 4 periods a week for 5 weeks; 1 credit.

***Art 322. LETTERING**

Aesthetics and techniques of creative and functional hand lettering using a variety of media. 4 periods a week for 5 weeks; 1 credit.

***Art 323. CREATIVE PAPIER MACHE**

The creation of three-dimensional decorative and functional objects using strip and/or pulp techniques of papier mache. 4 periods a week for 5 weeks; 1 credit.

***Art 324. PAPERMAKING**

Molding, dyeing, cutting, tearing, embossing, sewing, creasing and folding of hand-made paper with emphasis on texture, depth and color in two- and three-dimensional paper forms. 4 periods a week for 5 weeks; 1 credit.

Art 341. ART EDUCATION IN THE ELEMENTARY CLASSROOM

Lectures, readings and media exploration to introduce students to the importance of art in the integrated program of today's elementary schools. Special emphasis will be placed on drawing, painting, and three-dimensional design as well as planning and organization of a quality art program. (For Elementary Education Majors only.) 4 periods a week; 3 credits.

***Art 351. PRINTMAKING: SERIGRAPHY**

The silk screen process of printing as an aesthetic expression. Prerequisite: Art 120, 250, 251, 270 or 271. 4 periods a week; 3 credits.

***Art 352. PRINTMAKING WITHOUT A PRESS**

Methods of producing relief, stencil and transfer prints without the use of a press. Various materials will be explored to produce multiple copies or even unique pieces. 4 periods a week for 5 weeks; 1 credit.

***Art 355. PHOTOGRAPHY AS AN ART FORM**

Study of the fundamental techniques of the camera and its relation to the field of design and communications. Prerequisite: Art 120 and permission of instructor. 4 periods a week; 3 credits.

***Art 357. FILMMAKING I**

Production of short films using super-8 equipment. Prerequisite: permission of instructor. 4 periods a week; 3 credits.

***Art 358. PINHOLE PHOTOGRAPHY**

Art expression and the mysteries of light combined to form images with photographs and pinhole camera techniques. 4 periods a week for 5 weeks; 1 credit.

***Art 359. CREATING VISUALS WITHOUT A CAMERA**

Individual creation of slide shows and filmstrips that correlate with activities for elementary school age children. 4 periods a week for 5 weeks; 1 credit.

***Art 361. HISTORY OF LATE 18th AND 19th CENTURY PAINTING AND SCULPTURE**

Study of neo-classicism, revolution, romanticism, realism, the salon and impressionism in painting and sculpture. 3 periods a week; 3 credits.

***Art 362. HISTORY OF 20th CENTURY PAINTING AND SCULPTURE**

A study of post-impressionism, expressionism, fauvism, cubism, abstract, dada, surrealism, abstract expressionism, op, pop, and current trends in painting and sculpture. 3 periods a week; 3 credits.

***Art 363. HISTORY OF GREEK AND ROMAN ART AND ARCHITECTURE**

Three periods a week; 3 credits.

***Art 364. HISTORY OF RENAISSANCE AND BAROQUE ART AND ARCHITECTURE**

Three periods a week; 3 credits.

***Art 366. PRIMITIVE ART**

A study of African, Oceanic, and Pre-Columbian art with emphasis on the historical and religious background and the artistic contribution of these cultures and civilizations. 3 periods a week; 3 credits.

***Art 367. HISTORY OF MODERN ARCHITECTURE**

A survey of 19th and 20th century architecture. 3 periods a week; 3 credits.

***Art 368. HISTORY OF AMERICAN ART TO MID-NINETEENTH CENTURY**

A study of Colonial, Federal, Revival, and Romantic styles of American art. 3 periods a week; 3 credits.

***Art 369. HISTORY OF AMERICAN ART FROM MID-NINETEENTH CENTURY**

A study of Genre, Americana, The Expatriots, Impressionists, The Eight, and Twentieth Century styles of American art. 3 periods a week; 3 credits.

***Art 370. EXPLORATORY PAINTING**

Exploration of various waterbased painting media with emphasis on unique materials, composition and a variety of techniques. 4 periods a week for 5 weeks; 1 credit.

***Art 381. SCULPTURE I**

Fundamental problems in the understanding of sculptural form through studio experiences and related visual study. Use of varied media and tools. Prerequisite: Art 130, 223, or permission of instructor. 4 periods a week; 3 credits.

Art 382. SCULPTURE II

Further exploration of materials and form. One problem requiring greater depth of study. Emphasis on adaption of course content to secondary art teaching. Slides and film supplements. Prerequisite: Art 381. 4 periods a week; 3 credits.

Art 401. SPECIALIZED TOPICS IN THE VISUAL ARTS

Offered on demand. 1 period a week; 1 credit.

*Recommended for General Education

Art 402. SPECIALIZED TOPICS IN THE VISUAL ARTS

Offered on demand. 2 periods a week; 2 credits.

Art 403. SPECIALIZED TOPICS IN THE VISUAL ARTS

Offered on demand. 4 periods a week; 3 credits.

***Art 411. ENAMELS II**

Continued exploration of the design and production of vitreous enamels using copper or other metals as a base. (May be continued as Art 416, 417, etc. with permission of instructor.) Prerequisite: Art 311 and permission of instructor. 4 periods a week; 3 credits.

Art 412. CERAMICS STUDIO

Independent problems in ceramics. Prerequisite: Art 214 and permission of instructor. 4 periods a week; 3 credits.

***Art 413. JEWELRY II**

Continued exploration of various metals and techniques with strong emphasis on design. (May be continued as Art 419 with permission of instructor.) Prerequisite: Art 313 or permission of instructor. 4 periods a week; 3 credits.

***Art 414. METALSMITHING II**

Independent exploration of functional and decorative objects using various metals and metal forming techniques with strong emphasis on design. Prerequisite: Art 313 and permission of instructor. 4 periods a week; 3 credits.

***Art 415. WEAVING AND TEXTILE STUDIO**

Independent concentration in choice of techniques available in weaving and textiles. Prerequisite: Art 215 and permission of instructor. Hours to be arranged. 4 periods a week; 3 credits.

***Art 416. ADVANCED CASTING**

Continued exploration of the casting process with strong emphasis on design and experimentation. Prerequisite: Art 313. 4 periods a week; 3 credits.

***Art 417. GEM STONE CUTTING AND SETTING**

Continued exploration of cutting, polishing, and setting stones with strong emphasis on design. Prerequisite: Art 313. 4 periods a week; 3 credits.

***Art 418. METAL ELECTRO-FORMING**

Exploration of functional and decorative application of electroforming in lieu of, or in combination with, additional metal forming techniques. Strong emphasis will be given to design. Prerequisite: Art 313 or permission of instructor. 4 periods a week; 3 credits.

Art 430. DRAWING STUDIO

Open to students who have completed Art 130 and 131. The student will select an area of concentration and problems of specialization in media and technique. Permission of instructor required for enrollment. Hours to be arranged. (May be continued as 431, 432, 433, with permission of instructor.) 3 credits.

Art 441. THE TEACHING OF ART IN THE SECONDARY SCHOOLS

A concentrated study of contemporary practices, theory, and materials necessary for the formulation of a meaningful art program in the secondary school. 4 periods a week; 3 credits.

Art 442. THE TEACHING OF ART IN THE ELEMENTARY SCHOOLS

Theory, methods, and materials necessary for the formulation of a creative art program in the elementary schools. 4 periods a week; 3 credits.

Art 443. PROBLEMS IN ART EDUCATION

The student will select an area of art education for concentrated study through readings, research, experimentation and/or internship in the J.P. Wynne Campus School Art Program. Permission of instructor required for enrollment. Hours to be arranged. 3 credits.

Art 444. LABORATORY PRACTICUM IN ART EDUCATION—ELEMENTARY

Supervised experience working with elementary age students in a creative setting. 2 periods a week; 1 credit.

Art 445. LABORATORY PRACTICUM IN ART EDUCATION—SECONDARY

Supervised experience working with secondary school age children in a creative setting. 2 periods a week; 1 credit.

Art 446. RELATED ARTS, AESTHETIC AND OUTDOOR EDUCATION WORKSHOP

Multi-disciplinary approach to synthesizing human concepts and values through related arts (visual arts, music, movement), aesthetics and outdoor education, including 3-week practicum in a natural environment. Rising 4th- 7th grade students from the local area participate in the 3-week day camp practicum. 6 credits.

Art 450. PRINTMAKING STUDIO

Open to students who have completed Art 120, 130, and 250, and if studying serigraphy or relief and intaglio must have completed courses in these areas. The student will select an area of concentration and problems of specialization in media and technique. Permission of instructor required for enrollment. Hours to be arranged; 3 credits.

Art 455. PHOTOGRAPHY STUDIO

Continued study of concepts and techniques in black and white photography. Prerequisite: Art 355 and permission of instructor. Hours to be arranged; 3 credits.

Art 461. STUDIES IN ART HISTORY

Independent study. Prerequisite: 9 credits of History of Western Art or equivalent and permission of instructor. Hours to be arranged; 3 credits.

Art 471. PAINTING STUDIO

Open to students who have completed Art 271 or equivalent. May be continued as 472, 473, etc. Permission of instructor required for enrollment. Hours to be arranged; 4 periods a week; 3 credits.

Art 480. SCULPTURE STUDIO

Open to students who have completed Art 381 and 382. The student will select media and technique, and set up individual problems. Permission of instructor required for enrollment. (May be repeated as 481, 482, etc.) Hours to be arranged; 3 credits.

BIOLOGY (07)

***Biology 101. BIOLOGICAL CONCEPTS**

An inquiry into the nature and common features of life. 3 single and 1 double periods a week; 3 credits.

*Recommended for General Education

***Biology 102. GENERAL BOTANY**

The biology, life cycles, economics and ecology of representatives of the plant kingdom. 3 single and 1 double periods a week; 4 credits.

***Biology 103. GENERAL ZOOLOGY**

The biology, life cycles, economics and ecology of representatives of the animal kingdom. 3 single and 1 double periods a week; 4 credits.

Biology 201. PLANT MORPHOLOGY

The comparative development and structure of tissues and organs in representative vascular plant groups. 3 single and 1 three-hour periods a week; 4 credits.

Biology 202. ANIMAL MORPHOLOGY

The comparative development and structure of tissues, organs, and organ systems in representative chordate groups. 2 single and 2 double periods a week; 4 credits.

Biology 204. PLANT TAXONOMY

Collection, identification, and classification of plants. 2 single and 2 double periods a week; 4 credits.

Biology 206-207. HUMAN ANATOMY AND PHYSIOLOGY

Basic physiological principles and functional anatomy of the digestive, circulatory, respiratory systems (Biology 206) and of the integumentary, skeletal, muscular, nervous endocrine and urogenital systems (Biology 207). Biology 206 is recommended as prerequisite for Biology 207. 3 single and 1 double periods a week; 4 credits.

Biology 300 (Earth Science 300). GENERAL ECOLOGY

The interrelationships of organisms with their environment. 3 single and 1 double periods a week; 4 credits.

Biology 301 (Earth Science 301). MAN AND THE ENVIRONMENT

A consideration of the environmental problems that society faces on the local, national and international levels. Topics may include the energy crisis, pollution, population problems, birth control, recycling, and other areas of interest to the students. Open to all students. No prerequisites. 3 periods a week; 3 credits.

Biology 302. PLANT ECOLOGY

Relationships of plants to their environments. 3 single and 1 three-hour periods a week; 4 credits.

Biology 304. MODERN GENETICS

Modern concepts of the nature and function of genetic material. 3 single and 1 double periods a week; 4 credits.

Biology 305. PLANT PHYSIOLOGY

Principles of cellular and tissue functions in plants. 3 single and 1 double periods a week; 4 credits.

Biology 306. VERTEBRATE PHYSIOLOGY

Functions of animal organs and organ systems. Prerequisite: Biology 202 or 206-207. 3 single and 1 three-hour laboratory periods a week; 4 credits.

Biology 308. FIELD BIOLOGY

Collection, identification, and life histories of local flora and fauna. 1 single and 1 double periods a week; 2 credits.

Biology 309. MICROBIOLOGY

A study of the structure, physiology and activities of microorganisms as related to their role in nature, disease, immunological interactions, industrial processes and human affairs. Basic concepts of, and fundamental techniques for, isolation, growth, identification, and immunological reactions will be stressed. 3 single and 2 double periods a week; 4 credits.

Biology 310. EVOLUTION

A study of the basic processes of an evidence for evolution. 3 single periods a week; 3 credits.

Biology 311 (Earth Science 311). OCEANOGRAPHY

An introduction to the geological, physical, chemical and biological aspects of the oceans. 3 single and 1 double periods a week; 4 credits.

Biology 312 (Chemistry 312). BIOCHEMISTRY

A study of the chemistry of proteins, carbohydrates, lipids and nucleic acids in biological systems. Prerequisite: Chemistry 205 or permission of instructor. 3 single periods a week; 3 credits (or 4 with laboratory).

Biology 323. GENETICS AND MAN

A study of the mechanisms of heredity and their applications, implications, and limitations to man as a rational social being. Not open to biology majors. 3 single and 1 double periods a week; 4 credits.

Biology 324. GENETICS

A study of the mechanism of heredity. 3 single and 1 double periods a week; 4 credits.

Biology 371. SPECIAL COURSES IN BIOLOGY

Specialized courses for small groups of students. The course titles and descriptions listed below represent some of the special areas which may be covered under this course number. 1, 2, 3, or 4 credits. May be repeated as 372, 373, 374.

Acarology. Classification, biology, medical and economic significance of mites and ticks. Limited to four students. 2 double periods a week; 2 credits.

Biology of Fishes. An introduction to the study of fishes, emphasizing their morphology, physiology, taxonomy, and environmental responses. Prerequisite: Biology 103 and permission of instructor. 2 single and 1 double periods a week; 3 credits.

Bryophytes. The morphology and taxonomy of mosses and liverworts with emphasis on field work. 1 single and 2 double periods a week; 3 credits.

Cytology and Cytogenetics. Structural and functional aspects of cellular maintenance and heredity.

Entomology. A study of insects: the Class or an Order. Taxonomy, or anatomy, or physiology.

Herpetology. The study of reptiles and amphibians, with emphasis on the systematics, distribution, ecology and evolution of the group. Permission of instructor required. 2 double and 2 single periods a week; 4 credits.

Horticulture. A survey of basic principles and practices for the propagation and care of plants. Open to all students; no prerequisites. 3 periods a week; 3 credits.

Limnology. An ecological approach to the physical, chemical, and biological study of fresh water environments with consideration given to the methods and principles of evaluating water quality. Prerequisites: 8 hours of biology, 8 hours of chemistry and permission of instructor. 2 single

*Recommended for General Education

and 2 laboratory periods a week; 4 credits.

Ornithology. Morphology and identification of birds common to Virginia. 2 credits.

Plant Geography. A study of the origins, migrations, and distribution of the flowering plants. 2 double periods a week; 2 credits.

Pteridology. A study of ferns, horsetails, spikemosses and quillworts with emphasis on field work. 2 single and 1 three-hour periods a week; 3 credits.

Biology 401. BSCS: CONCEPTS AND METHODS

Studies to acquaint students with high school biology courses designed by the Biological Sciences Curriculum Study Committee. 3 single periods a week; 3 credits.

Biology 462. SPECIAL PROJECTS IN BIOLOGY

Students will carry out research projects under individual supervision of an instructor. The nature of the project will depend on the interest and needs of the student. Consent of the instructor and approval of the department chairman is prerequisite for enrollment in this course. May be repeated as 463 and 464. 2, 3, or 4 credits.

Biology 490. BIOLOGICAL SEMINAR

Selected topics in biology. May be repeated as 491, 492, etc. 1 period a week; 1 credit.

BUSINESS (10)

Business 121. ELEMENTARY TYPEWRITING

Designed for students with no previous instruction. Emphasis on current techniques for developing speed and accuracy. Introduction to basic correspondence, manuscripts, and simple statistical copy. May not be taken for credit by persons who have received credit for as much as two semesters of prior instruction in typewriting at any level, except with permission of the instructor. 3 periods a week; 3 credits.

Business 131. ELEMENTARY SHORTHAND

Mastery of Gregg Shorthand principles; reading and writing practice necessary for skill development in taking dictation. May not be taken for credit by persons who have received credit for as much as two semesters of prior instruction in shorthand at any level, except with permission of the instructor. 3 periods a week; 3 credits.

Business 151. INTRODUCTION TO BUSINESS

Provides a broad but firm foundation in business upon which advanced business courses can build. Develops an understanding of the business world, the philosophy, objectives, and responsibilities of business in relation to its environment; and gives direction to making a vocational choice. 3 periods a week; 3 credits.

Business 152. PRINCIPLES OF MANAGEMENT

A study of management fundamentals with emphasis on theories of management, the evolution of management thought, and the functions of management in organizational activity. Attention is given to the development of a philosophy of management. 3 periods a week; 3 credits.

Business 218. PRINCIPLES OF REAL ESTATE

Principles and practices of real estate as reflected in the purchasing, owning, and operating real property. Emphasis upon property description, transfer of property, joint ownership, tax sales, title to property, and inheritance of real property. Material covers the basic outline of the Virginia real estate license examination. 1 period a week; 3 credits.

Business 220. BUSINESS COMMUNICATIONS

Introduction to business communications; writing of business letters, business reports, business communications. 3 periods a week; 3 credits.

Business 221. INTERMEDIATE TYPEWRITING

Development of proficiency in producing a wide variety of typewriting problems with acceptable speed and accuracy. May not be taken for credit by persons who have received credit for as much as four semesters of prior instruction in typewriting at any level, except with permission of instructor. Prerequisite: "C" or better in Business 121 or equivalent. 3 periods a week; 3 credits.

Business 222. ADVANCED TYPEWRITING

Development of maximum proficiency or production problems and office-style copy. Most advanced course. Prerequisite: "C" or better in Business 221 or equivalent. 3 periods a week; 3 credits.

Business 228. PRINCIPLES OF MARKETING

An introduction to the functions of marketing in our economy with particular attention to the influence of social, economic, ethical, legal, and technological forces on marketing activities. Examination of problems and policies involved in the marketing of goods and services. 3 periods a week; 3 credits.

Business 231. INTERMEDIATE SHORTHAND

A complete review of shorthand theory and the development of dictation speed on unfamiliar copy. May not be taken for credit by persons who have received credit for as much as four semesters of prior instruction, except with permission of the instructor. Prerequisite: "C" or better in Business 131 or equivalent. 5 periods a week; 3 credits.

Business 232. ADVANCED SHORTHAND AND TRANSCRIPTION

Students motivated to attain maximum levels of achievement in speed and accuracy of taking dictation. Mailable transcripts, production, dictation speed, and transcription speeds are stressed. Most advanced course. Prerequisite: "C" or better in Business 231 or equivalent. Students should have completed or be enrolled in Business 222. 5 periods a week; 3 credits.

Business 233. MACHINE SHORTHAND
Applies shorthand theory to a compact keyboard so that writing speed and efficiency are obtained. Through touch control of 23 keys, machine shorthand students write phonetically all sounds that make up the English language. Machine shorthand permits the attainment of writing skills up to a speed equal to a maximum speed of human speech. Prerequisites: Business 121, 221, 222. 3 periods a week; 3 credits.

Business 241-242. ELEMENTARY ACCOUNTING
Theory of debits and credits; journalizing and posting. Use of special journals and ledgers. The trial balance, work sheet, business statements and adjusting and closing entries. Accounting for notes and interest; prepaid, unearned and accrued items; asset valuation; payroll and property taxes. Partnership and corporation accounts. Practice sets. 3 periods a week; 3 credits each semester.

Business 252. BUSINESS MACHINES
The course provides training on equipment commonly used in business offices: calculators, duplicators, transcribers. A unit on filing principles is also a part of the course. 3 periods a week; 3 credits.

Business 257. PERSONNEL ADMINISTRATION
Principles and problems of personnel administration with particular emphasis upon job analysis, recruitment, selection, training, transfer, promotion, and dismissal of employees. Attention is given to employer-employee relationships, industrial unrest, fringe benefits and recent trends in employment practices. Prerequisite: Business 152. 3 periods a week; 3 credits.

Business 259. SALES MANAGEMENT
An examination of the principles and techniques involved in buying and selling, as revealed in case studies. Attention is given to planning, organizing, directing, and controlling the firm's selling activities. Prerequisite: Business 152. 3 periods a week; 3 credits.

Business 322. INCOME TAX AND PAYROLL ACCOUNTING
Practical problems leading to filing of acceptable income tax returns to the Internal Revenue Service and the State of Virginia. Practical problems in social security benefits and payroll deductions; required accounting records. Prerequisite: Business 241-242. 3 periods a week; 3 credits.

Business 323, 324. INTERMEDIATE ACCOUNTING
Survey of basic accounting principles; working capital, noncurrent items, and corporate capital. Concept of profit and loss measurement and analytical processes of statement preparation. Prerequisite: Business 241-242. 3 periods a week; 3 credits each semester.

Business 325. COST ACCOUNTING
An inquiry into basic cost accounting systems. Consideration of standard costs, budgeting, and managerial cost analysis as reflected in methods of accounting for materials, labor and overhead. Emphasis upon application of fundamental concepts. Prerequisite: Business 241-242. 3 periods a week; 3 credits. Fall semester only.

Business 326. GOVERNMENT ACCOUNTING
The theory and practice of accounting as applied to federal, state, and local governments. Examinations of classification, use, and control of funds, budgetary controls and financial statement and reports. Prerequisite: Business 241-242. 3 periods a week; 3 credits. Spring semester only.

Business 328. RETAILING PRINCIPLES AND PRACTICES
Retail store organizations and management; personnel, buying, selling, sales campaigns, and inventories. 3 periods a week; 3 credits.

Business 340. BUSINESS FINANCE
An introduction to the principles and practices of financial management within a business firm. Examines acquisition of funds, cash flow, analysis, capital budgeting, working capital requirements, mergers and acquisitions, and reorganization and liquidation. Prerequisite: Business 241-242. 3 periods a week; 3 credits.

Business 341. PRINCIPLES OF INVESTMENT
An introduction to the analysis of personal and business investments including stocks, bonds, investment trusts, insurance, and real estate. Attention is given to the mechanics of purchase and sale and the operation of the securities markets. 1 period a week (evening), every other year; 3 credits.

Business 345. PRINCIPLES OF INSURANCE
Life insurance, property insurance, health and accident insurance, social insurance and liability insurance. Emphasis on the economic importance of insurance in community and individual living. 3 periods a week, every other year; 3 credits.

Business 349. OFFICE OR SELLING EXPERIENCE
The completion of a minimum of 300 clock hours of approved successful experience in either office or selling positions. Work must be completed before graduation. All business majors are urged to secure positions during the summer or other convenient times. Prerequisite: approval of department chairman. 3 credits.

Business 351, 352. PRINCIPLES OF BUSINESS LAW
Designed to acquaint the student with the legal environment in which business decisions are made. Emphasis in the first semester is on the basic law of contracts, agency, bailments, commercial paper, and bankruptcy. Second semester emphasis is on sales law, partnerships and corporations, trusts and wills, employment laws, and antitrust law. 3 periods a week; 3 credits each semester.

Business 356. INTRODUCTION TO DATA PROCESSING
Fundamental systems; machine orientation and essential operations, methods of coding and condensing data; data processing applications and procedures. 3 periods a week; 3 credits.

Business 357. SMALL BUSINESS MANAGEMENT

A study of the problems and policies of small businesses, including product lines, pricing, promotion, sources of capital, credit, regulations, taxes, and record-keeping. Attention is given to franchises. Case studies to illustrate decision-making in small business management are used. Prerequisite: Business 241 and 152. 3 periods a week; 3 credits.

Business 361 (Computer Science 201). BUSINESS LANGUAGE I

An introduction to programming in a business oriented language (COBOL) with emphasis on commercial applications and elementary concepts of file processing. 3 periods a week; 3 credits.

Business 362 (Computer Science 202). BUSINESS LANGUAGE II

Advanced COBOL programming for business applications; table handling; sorting, and report generating facilities of COBOL; processing of files on sequential and direct access storage devices. Prerequisite: Computer Science 201 or consent of instructor. 3 periods a week; 3 credits.

Business 383. FINANCIAL INSTITUTIONS AND MONEY MARKETS

A detailed study of the functions and operations of commercial banks, savings and loan associations, consumer finance companies, and credit unions together with an analysis of the instruments and procedures of consumer, business, and government borrowing. Prerequisite: Economics 355, Business 241, 242 and Business 340. 3 periods a week; 3 credits.

Business 400. SENIOR PRACTICUM

An optional program where a student may be selected to work for a participating corporation for one semester. 16 credits.

Business 451. TEACHING SECRETARIAL SUBJECTS

Stresses the principles of psychology and philosophy that underlie instruction in business skills; develops competencies in teaching typewriting, shorthand, transcription, and clerical practice including block programming and model office. Surveys resource materials, and emphasis is given to demonstration lessons, lesson planning and analyzing instructional procedures. Required of all business education majors. 3 periods a week; 3 credits.

Business 452. TEACHING ACCOUNTING AND BASIC BUSINESS SUBJECTS

Includes an introduction to business education. Methods of teaching accounting, general business, consumer economics, business law, and other basic business subjects. Stresses the development and use of instructional media and resource materials. Special emphasis is given to demonstration lessons, lesson planning, and analyzing instructional procedures. Required of all business education majors. 3 periods a week; 3 credits.

Business 453. SECRETARIAL PROCEDURES

Designed to coordinate the various secretarial skills into a high-level secretarial proficiency, special emphasis on the coordination of these skills with the human relations aspect of office procedures. Prerequisite: Business 222 and junior or senior standing, or permission of instructor. 3 periods a week; 3 credits.

Business 454. ADVERTISING

Principles underlying advertising, economic and social aspects of advertising, policies and objectives, selection and use of various media, advertising organizations, campaigns, displays and copy. 3 periods a week; 3 credits.

Business 455. PERSONAL FINANCE

Designed to acquaint the student with the basic fundamentals in selected areas of personal finance; role of the individual as a consumer and as an investor. Suitable as an elective for all students. 3 periods a week; 3 credits.

Business 456. LABOR RELATIONS AND COLLECTIVE BARGAINING

The historical, legal, and institutional aspects of the American labor force and its organization, wage and employment theory, and the economic, social and public dimensions of collective bargaining. Prerequisite: Business 257. 3 periods a week; 3 credits.

Business 460. THE MODEL OFFICE

A capstone course in business and office education which simulates the on-going daily operation of a fictionalized company wherein all the activities and procedures which occur in a normal business office become a reality. It simulates the standards required on the job and bridges the gap between theory and practice. Prerequisite: Business 222. 4 periods a week; 3 credits.

Business 474. AUDITING

Auditing standards and procedures, internal control, the development of audit programs and reports to clients are studied. Examination of professional ethics and legal liabilities in the auditor's work. Prerequisite: Business 323, 324. 3 periods a week, fall semester only; 3 credits.

Business 475. ADVANCED ACCOUNTING

Accounting interpretation of selected problems in the organization, affiliation and consolidation, and liquidation of business firms. Attention is given to the preparation of the consolidated balance sheet, income statement, and surplus statement. Prerequisite: Business 323, 324. 3 periods a week, spring semester only; 3 credits.

Business 481. PURCHASING

An analysis of principles and practices of industrial and government procurement. Examines the measurements and evaluation of purchasing performance, and problems of materials and management. Prerequisite: Business 357. 3 periods a week; 3 credits.

Business 560. WORKSHOP IN MODEL OFFICE

A survey of office simulations available for use at the secondary school level. (Business Education majors who have attained senior standing may enroll in the class. Credit cannot be granted for both Business 460 and 560.) Summer only; 3 credits.

Business 561. PRINCIPLES AND PROBLEMS IN BUSINESS EDUCATION

A study is made of the role of business education in the secondary school curriculum through an analysis of current trends and philosophies in business education and their application to current classroom activities. (Students who have attained senior standing may enroll in the class.) Summer only; 3 credits.

Business 562. COMPETENCY-BASED VOCATIONAL EDUCATION

Characteristics and principles of Competency-Based Vocational Education as applicable in business education are studied. Major focus is on improving current techniques and strategies of teaching, improving training plans, and developing individualized learning modules. Summer only, 40 hours of class work; 3 credits.

Business 563. ADVANCED COMPETENCY-BASED VOCATIONAL EDUCATION

Workshop will include preparation of objectives in addition to those in the V-TECS catalogs. These objectives will include such areas as basic computational and communicational skills, work attitudes, job-seeking skills and human relations. Prepared published materials that support criterion-referenced measures (CRM) will be identified and evaluated. Materials for CRM will be prepared if appropriate published materials are not available. Summer only, 40 hours of classwork; 3 credits.

Business 564. ADVANCED COMPETENCY-BASED INSTRUCTION-EVALUATION

This workshop is for the teacher who has attended a conference, a workshop, or has completed an introductory course on competency-based instruction (CBI). Since criterion-referenced measures are an integral part of CBI, this course in evaluation in CBI is designed to assist participants in developing criterion-referenced measures for selected business and office education occupational preparation programs. Before participants actually prepare criterion-referenced measures, they will study procedures for developing the measures and they will assess criterion-referenced measures that are available from a variety of sources. V-TECS catalogs, course outlines, and published resource materials will serve as a basis for developing the criterion-referenced measures. Summer only, 40 hours of classwork; 3 credits.

CHEMISTRY (12)

***Chemistry 101. GENERAL CHEMISTRY I**

A study of the basic concepts of chemistry designed for one semester. 3 single and 1 double periods a week; 4 credits.

Chemistry 102. GENERAL CHEMISTRY II

Continuation of Chemistry 101. A study of the laws and principles of chemistry and qualitative analysis. 3 single and 1 double periods a week; 4 credits.

Chemistry 201. ANALYTICAL CHEMISTRY

The theory and practice of quantitative analysis by gravimetric, volumetric and instrumental methods. 2 single and 2 double periods a week; 4 credits.

Chemistry 202. THE THEORY AND PRACTICE OF INSTRUMENTAL TECHNIQUES IN ANALYTICAL CHEMISTRY

Prerequisite: Chemistry 201. 2 single and 2 three-hour periods a week; 4 credits.

Chemistry 205. ORGANIC CHEMISTRY

Fundamental principles and recreations of organic chemistry. 3 single and 1 three-hour periods a week; 4 credits.

Chemistry 206. ORGANIC CHEMISTRY

A continuation of Chemistry 205. 3 single and 1 three-hour periods a week; 4 credits.

Chemistry 301. INTRODUCTORY PHYSICAL CHEMISTRY

Fundamental principles and problems associated with the properties of matter, its structure and interaction. Introduction to thermodynamics, kinetics, equilibrium, electrochemistry, and solid state structure. Prerequisites: Chemistry 101, 102 and Mathematics 161, 162, or equivalent. 3 single and 1 three-hour (laboratory) periods a week; 4 credits.

Chemistry 312 (Biology 312). BIOCHEMISTRY

A study of the chemistry of proteins, carbohydrates, lipids, and nucleic acids in biological systems. Prerequisite: Chemistry 205 or permission of instructor. 3 single periods a week; 3 credits (or 4 with laboratory).

*Recommended for General Education

Chemistry 371. SPECIAL COURSES IN CHEMISTRY

Specialized courses for small groups of students. The course titles and descriptions listed below represent some of the special areas which may be covered under this course number. 1, 2, 3, or 4 credits. May be repeated as 372, 373, 374.

Advanced Organic Chemistry. A study of more advanced topics than covered in Chemistry 205 and 206. Prerequisite: Chemistry 205 and 206. 3 single periods a week; 3 credits (or 4 with laboratory).

Environmental Chemistry. A study of the fundamental problems of chemical pollution of the soil, water, and atmosphere. Prerequisite: Chemistry 205 or consent of instructor.

Inorganic Chemistry. The structures, properties, reactions and uses of inorganic compounds. Prerequisite: Chemistry 102 and permission of instructor. 3 credits.

Laboratory Safety. A study of laboratory safety equipment; storage and dispensing chemicals, hazards from laboratory equipment, hazards from chemical reactions, toxins, carcinogens, corrosives, and radiation. 2 single periods a week; 2 credits.

Polymer Chemistry. A study of chemical reactions used to synthesize polymers, the kinetics of those reactions, the effects of synthetic modifications on polymer properties, techniques to characterize polymers, and natural polymers. 3 single periods a week; 3 credits.

Textile Chemistry. A study of fundamental problems and processes of natural fibers and fabrics. Prerequisite: Chemistry 205 or consent of instructor. 3 single periods a week; 3 credits.

Toxicology. A study of the therapeutic and toxic effects of exogenous materials on the living organism; the mode of action, metabolism, detoxication, testing and analysis of selected drugs and environmental chemicals. Prerequisite: organic chemistry or consent of instructor. 3 single and 1 double periods a week; 4 credits.

Chemistry 400, 401. ADVANCED PHYSICAL CHEMISTRY

First semester: Kinetic theory of gases, thermodynamics, equilibria, kinetics, and kinetic theory. Second semester: Elementary quantum theory, atomic and molecular structure, spectroscopy, solution properties, and electrochemistry. Prerequisites: Chemistry 201, 301 or permission of instructor; Mathematics 261, 262; Physics 101, 102, or 201, 202. 3 single and 1 three-hour (laboratory) periods a week; 4 credits.

Chemistry 420. CHEMISTRY SEMINAR

Reports and discussions of topics of interest in the field of chemistry. Open to qualified students. May be repeated for credit, in which event the number will be 421, 422, etc. 1 credit.

Chemistry 462. SPECIAL PROJECTS IN CHEMISTRY

Students will carry out research projects under individual supervision of an instructor. The nature of the project will depend on the interest and needs of the student. Consent of instructor and approval of department chairman is prerequisite for enrollment in this course. May be repeated as Chemistry 463 and 464. 2, 3, or 4 credits.

COMPUTER SCIENCE (14)

Computer Science 101. INTRODUCTION TO BASIC

Introduction to programming in BASIC and utilization of interactive computing facilities. Topics include elementary manipulation of data files, graphing, arrays and character strings. 2 periods a week, first one-half of semester; 1 credit.

***Computer Science 201. BUSINESS LANGUAGE I**

An introduction to programming in a business oriented language (COBOL) with emphasis on commercial applications and elementary concepts of file processing. 3 periods a week; 3 credits.

***Computer Science 202. BUSINESS LANGUAGE II**

Advanced COBOL programming for business applications; table handling, sorting, and report generating facilities of COBOL; processing of files on sequential and direct access storage devices. Prerequisite: Computer Science 201 or consent of instructor. 3 periods a week; 3 credits.

***Computer Science 205. INTRODUCTION TO PROGRAMMING**

An introductory course in computer science with emphasis on techniques of programming of FORTRAN and on applications to mathematics and science. Prerequisite: Mathematics 161, 162, 164 or consent of instructor. Carries mathematics credit toward both the major and teaching certification. 3 periods a week; 3 credits.

***Computer Science 206. ADVANCED FORTRAN**

Advanced topics in programming in FORTRAN. Documentation, disk file, graphs, searching, sorting, algorithmic techniques. Prerequisite: Computer Science 205. 3 periods a week; 3 credits.

Computer Science 301. COMPUTER ORGANIZATION AND ASSEMBLER LANGUAGE PROGRAMMING

Assembler language programming; addressing techniques; internal storage structure; machine-level representation of instructions and data; sub-routines. Prerequisites: Computer Science 202 or 206 or consent of instructor. 3 periods a week; 3 credits.

Computer Science 302. DATA STRUCTURES

Internal representation of arrays, queues, trees, stacks, and lists; concepts related to the interaction between data structures and storage structures for the generating, developing and processing of data. Prerequisite: Computer Science 202 and 206 or consent of instructor. 3 periods a week; 3 credits.

Computer Science 308. ORGANIZATION OF PROGRAMMING LANGUAGES

Topics include language definition structure, data types and structures, control structures and data flow, runtime characteristics and lexical analysis and parsing. Programming assignments will involve the use of several different languages. Prerequisite: Computer Science 202 or 206. 3 periods a week; 3 credits.

Computer Science 311. INTRODUCTION TO OPERATING SYSTEMS AND COMPUTER ARCHITECTURE

Emphasis will be placed on concepts rather than case studies and on the interdependence of operating systems and architecture. Topics include instruction sets, I/O and interrupt structure, addressing schemes, microprogramming, memory management and recovery procedures. Prerequisite: Computer Science 301. 3 periods a week; 3 credits.

Computer Science 490. DIRECTED STUDY IN COMPUTER SCIENCE

Individualized study; recommended only when material cannot be studied through existing course offerings. Must have permission of department chairman. 1-3 credits. May be repeated as Computer Science 491, etc.; no more than 6 credits.

For Graduates and Advanced Undergraduates

Computer Science 505. COMPUTERS IN MATHEMATICS EDUCATION

Introduction to programming in the interactive language BASIC. Techniques and existing programs in computer-assisted instruction, computer-managed instruction, simulation and modeling. Emphasis will be placed on secondary school applications. Offered on demand. 3 credits.

DRAMATIC ARTS (16)

***Dramatic Arts 100. INTRODUCTION TO THE THEATRE**

A basic course designed to provide a general introduction to the dramatic arts. 3 periods a week; 3 credits.

*Recommended for General Education

Dramatic Arts 111, 112; 211, 212; 311, 312; 411, 412. PLAY PRODUCTION

Open to all students who perform, or who provide technical support for departmental major productions in one of the following areas: costumes, lighting, properties, sound-music, makeup, publicity-house. Audition required with the director and/or permission of technical director. Each student will work a minimum of 45 hours. Does not meet the general education requirement. Evaluation: pass/fail. (NOTE: Dramatic Arts majors are expected to earn at least 4 credits in play production.) 1 credit per semester; time: TBA.

Dramatic Arts 201, 202. STAGE-CRAFT

A lecture-studio course dealing with the basic physical and technical skills necessary to mount a play. First semester: scenery construction, running and rigging. Second semester: fundamentals of electricity and intensity control boards, types of stage lighting and instruments. Work on departmental productions required. 3 double periods a week; 4 credits each semester.

Dramatic Arts 223 (English 223). SHAKESPEARE

A study of twelve of Shakespeare's plays, selected to illustrate his development as a dramatist and the importance of the drama in Elizabethan England. 3 periods a week; 3 credits.

Dramatic Arts 267 (English 267). WORLD DRAMA

A study of the forms and types of representative plays in the main current of world drama from its beginning to Goethe. 3 periods a week; 3 credits.

Dramatic Arts 268 (English 268). MODERN EUROPEAN DRAMA

A study of the European Theatre from Goethe through Shaw. 3 periods a week; 3 credits.

Dramatic Arts 269 (English 269). CONTEMPORARY DRAMA

A literary study of European and American drama that has made the greatest theatrical, literary and/or social impact in recent years. 3 periods a week; 3 credits.

Dramatic Arts 301. PROBLEMS IN DIRECTING

Directing with particular reference to the educational theatre, theatre organization, styles of presentation, composition and picturization, and relationships between the director and other theatre workers. Prerequisite: Dramatic Arts 201 or 202. 3 periods a week; 3 credits.

Dramatic Arts 302. FUNDAMENTALS OF ACTING

Study of methods and styles of acting; historical development of acting as a fine art. Pantomime and improvisation. Students to perform in one-act plays, and class exercises and scenes. Prerequisite: Dramatic Arts 201 and 202. 2 double periods a week; 3 credits.

Dramatic Arts 303. SCENE DESIGN

A studio course acquainting the student with the procedures necessary to analyze a script for scenic needs, to create a scenic design and to communicate that design to others. Prerequisite: Dramatic Arts 201 or consent of instructor. 2 double periods a week; 3 credits.

Dramatic Arts 304. LIGHTING DESIGN

A studio course dealing with the fundamentals of lighting design, methods of approaching lighting design, script interpretation and practical design for the stage. Work on departmental productions required. Prerequisite: Dramatic Arts 202 or consent of instructor. 2 double periods a week; 3 credits.

Dramatic Arts 305, 306. HISTORY OF THE THEATRE

A study of Western theatre from its beginnings to the present with special emphasis on the impact of the theatre arts on Western civilization. 3 periods a week; 3 credits.

Dramatic Arts 307. A STUDY OF INDIVIDUAL PLAYWRIGHTS

A concentrated study of one or a group of playwrights who have made a significant contribution to the theatrical literature of the world. Beckett, Brecht, Ibsen, O'Neill, Shaw, Restoration playwrights, and others. 3 periods a week; 3 credits.

Dramatic Arts 308. COSTUMES AND MAKEUP FOR THE THEATRE

A studio course dealing with script analysis for costume design, creating a design and communicating that design to others. Basic skills and techniques of stage makeup explored. Work on departmental productions required. Prerequisite: Dramatic Arts 201, 202 or consent of instructor. 2 double periods a week; 3 credits.

Dramatic Arts 309. THEORY AND PRACTICE OF STAGE PAINTING

A studio course dealing with the fundamentals of stage painting, theory, methods, and practical application. Work on departmental productions required. Prerequisites: Dramatic Arts 201, 202 or consent of instructor. Two double periods a week; 3 credits.

Dramatic Arts 357 (Physical Education 357). DANCE COMPOSITION

Theory and practice in composition of solo and small group dances. The course is designed for those students interested in advanced training in dance. Prerequisite: Dramatic Arts 100, 201, or 202 for Dramatic Arts credit; or permission of instructor for Physical Education credit. NOTE: This course is an elective and will meet the general education requirement in physical education or dramatic arts, but not both. This will not satisfy state certification requirements for teaching dramatic arts. 3 periods a week; 3 credits.

Dramatic Arts 358 (Physical Education 358). THEORY AND PRACTICE IN COMPOSITION AND CHOREOGRAPHIC PROBLEMS

The course is designed for those students interested in advanced training in dance. Prerequisite: Dramatic Arts 100, 201, or 202 for Dramatic Arts credit; or permission of instructor for Physical Education credit. NOTE: This course is an elective and will meet the general education requirement in physical education or dramatic arts, but not both. This will not satisfy state certification requirements for teaching dramatic arts. 4 periods a week; 3 credits.

Dramatic Arts 404. PLAYWRITING

A workshop for students interested in writing for the theatre. The main emphasis in the course is toward the development of creative work by student writers with the possible goal of studio production. (This course is not offered every year, but may be taken as an Independent Study with permission of the instructor.) 1 three-hour class/laboratory period a week; 3 credits.

Dramatic Arts 497, 498. DIRECTED STUDY IN DRAMATIC ARTS

A directed reading and/or research program administered by qualified specialists in the department. The student must secure the approval of the program director and department chairman prior to registering for this course. 1-3 credits per semester.

Dramatic Arts 524, 525 (English 524, 525). SHAKESPEARE

Selected comedies, tragedies, and non-dramatic poetry. 3 periods a week; 3 credits.

EARTH SCIENCE (18)

***Earth Science 101. PHYSICAL SCIENCE**

A survey of basic physics needed for the study of earth sciences. 3 single and 1 double periods a week; 4 credits.

***Earth Science 102. PHYSICAL SCIENCE**

A survey of the earth sciences. Not for earth science majors. 3 single and 1 double periods a week; 4 credits.

***Earth Science 200. ASTRONOMY OF THE SOLAR SYSTEM**

Descriptive study of the solar system and celestial dynamics. Evening sky observations are included. 3 single and 1 double periods a week; 4 credits.

***Earth Science 201. STELLAR ASTRONOMY**

Descriptive study of star types, stellar distances, binary systems, variable stars, stellar evolution, clusters, galaxies, cosmology, telescopes, and optics. Evening sky observations are included. 3 single and 1 double periods a week; 4 credits.

***Earth Science 210. PHYSICAL GEOLOGY**

An introduction to the physical materials and processes which shape the earth's crust. 3 single and 1 double periods a week; 4 credits.

Earth Science 211. HISTORICAL GEOLOGY

A detailed investigation of the origin and evolution of earth's crust with emphasis on the eastern United States. Prerequisite: Geology 200 or high school earth science. 3 single and 1 double periods a week; 4 credits.

Earth Science 251 (Geography 251). METEOROLOGY

A study of basic weather phenomena and processes. The origin of air masses, source regions, and frontal zones are treated. 3 periods a week; 3 credits.

Earth Science 252 (Geography 252). PHYSICAL GEOGRAPHY

A systematic study of pedology, hydrology, plant geography, and earth resources and their interrelationships. Included are case studies of human impacts on the earth systems. 3 periods a week; 3 credits.

Earth Science 300 (Biology 300). GENERAL ECOLOGY

The interrelationships of organisms with their environment. 3 single and 1 double periods a week; 4 credits.

Earth Science 301 (Biology 301). MAN AND THE ENVIRONMENT

A consideration of the environmental problems that society faces on the local, national and international level. Topics may include the energy crisis, pollution, population problems, birth control, recycling, and other areas of interest to the students. No prerequisites; open to all students. 3 periods a week; 3 credits.

Earth Science 311 (Biology 311). OCEANOGRAPHY

An introduction to the geological, physical, chemical and biological aspects of the oceans. 3 single and 1 double periods a week; 4 credits.

Earth Science 353 (Geography 353). GEOGRAPHY OF VIRGINIA

Geographical appraisal of Virginia, including the geology, landforms, soils, climate, economic minerals, original vegetation, and the human geography of Virginia, emphasizing settlement and population, agriculture, industries and transportation. Prerequisite: Geography 201 or permission of instructor. 3 periods a week; 3 credits.

Earth Science 355 (Geography 355). CLIMATOLOGY

The systems of climate classification and the global patterns of climatic regions are emphasized. Special attention is devoted to the relationships between climate and the other physical and biological systems, and the historical perspective of man and climate. Prerequisite: Geography 201 or 251 or permission of instructor. 3 periods a week; 3 credits.

Earth Science 358 (Geography 358). CARTOGRAPHY

Emphasis is focused on the construction of maps, figures, and charts at the pre-professional level. Modern techniques and processes are discussed along with conventional pen and ink methods. Examination and interpretation of maps and aerial photographs are included. Prerequisite: permission of instructor. 3 periods a week; 3 credits.

Earth Science 371. SPECIAL COURSES IN EARTH SCIENCE

Special courses for small groups of students. The course titles and descriptions listed below represent some of the special areas which may be covered under this course number. 1, 2, 3, or 4 credits.

Speleology. The physical and biological study of caves and their related features. The laboratory involves field trips to cavernous regions of Virginia and West Virginia. Prerequisite: Physical Geology or permission of instructor. 2 single and 1 double periods a week; 3 credits.

Earth Science 410 (Geography 410). REGIONAL PHYSIOGRAPHY OF THE UNITED STATES

Treatment of the processes that have shaped the varied surface features within the United States. Theories and concepts relating to geomorphic evolution in the major and minor physiographic divisions will be emphasized. Prerequisite: Geography 201 or Earth Science 252 or Earth Science 210. 3 periods a week; 3 credits.

*Recommended for General Education

Earth Science 462. SPECIAL PROJECTS IN EARTH SCIENCE

Students will carry out study or research projects under individual supervision of instructor. The nature of the projects will depend on the interest and needs of students. Consent of the instructor and approval of the department chairman is prerequisite for enrollment in this course. May be repeated as Earth Science 463 and 464. 2, 3, or 4 credits.

ECONOMICS (20)

***Economics 202. BASIC ECONOMICS**

A concentrated study of economics principles with emphasis on methods of economic analysis, and current economic problems. 3 periods a week, fall semester only; 3 credits.

***Economics 231, 232. PRINCIPLES OF ECONOMICS**

A two-semester sequential course to acquaint the student with the fundamentals of economics, economic analysis, and economic institutions. 3 periods a week; 3 credits each semester.

Economics 306-307 (History 306). ECONOMIC HISTORY OF THE UNITED STATES

A study of the economy of the United States from the Jamestown Colony to the present. The first semester covers the period from the Jamestown Colony through the Civil War Era. The second semester covers the period from Reconstruction to the present. Prerequisite: Economics 202 or 231. 3 periods a week; 3 credits each semester.

Economics 342. COMPARATIVE ECONOMIC SYSTEMS

A critical study of capitalism, fascism, and socialism. Prerequisite: Economics 202 or 231-232. 3 periods a week; 3 credits.

Economics 350. ECONOMICS OF WELFARE

An economic analysis of income maintenance or welfare programs in the United States; their financing, administration, consequences and alternates. Prerequisite: Economics 231-232 or consent of instructor. 3 periods a week; 3 credits.

Economics 355. MONEY AND BANKING

Nature and function of money; legal tender and credit; relation of money and credit to prices; bank deposits; and general economic activity; the American banking system from colonial times to present. Prerequisite: Economics 202 or 231-232. 3 periods a week; 3 credits.

Economics 358. PUBLIC FINANCE

A study of the fiscal policy and selected budgetary expenditure programs of the government as related to the business sector. Prerequisite: Economics 231-232 and Business 241-242. 3 periods a week; 3 credits.

Economics 460, 461, 462. ECONOMICS SEMINAR

Prerequisite: Economics 231-232. Offered on demand. 1 period a week; 3 credits per course.

Economics 465. INTERNATIONAL TRADE

A study of the fundamental principles of international trade, balance of payments problems, and the problems of foreign exchange. 3 periods a week; 3 credits.

EDUCATION (22)

Education 225. LANGUAGE ARTS IN THE ELEMENTARY SCHOOL

A general introduction to the techniques of language arts instruction in the elementary school. Includes such topics as functional and creative language, creative dramatics, development of listening skills, and special emphasis on instruction in spelling and handwriting. Observation and laboratory experiences are required. 3 credits.

Education 325. THE DEVELOPMENTAL TEACHING OF READING

Readiness, word recognition, vocabulary, comprehension, interpretive oral reading, skills for content fields, study skills and adaptive rates of reading are emphasized. 3 credits.

Education 347. AUDIO-VISUAL EDUCATION

The improvement of instruction through the use of audio-visual equipment, techniques and materials. 3 periods a week; 3 credits.

Education 349. EDUCATION TELEVISION

A detailed study of educational television with special emphasis on the roles of the studio and classroom teacher. Includes laboratory practice in the planning and production of televised instruction. 3 credits.

Education 424. BEHAVIOR MODIFICATION IN THE CLASSROOM

An introduction to the basic principles of behavior modification as they apply to classroom management and discipline. 3 periods a week; 3 credits.

Education 429. THE DIAGNOSTIC TEACHING OF READING

Evaluation of reading progress, survey of common reading difficulties, diagnostic techniques, and corrective methods for the classroom are emphasized. 3 credits.

Education 451. SURVEY OF EXCEPTIONAL CHILDREN

Survey of essential characteristics of the exceptional child in an educational setting. Major emphasis given to the educable mentally retarded, the slow learner, the gifted child, visually handicapped, crippled, and children with hearing impairments. 3 periods a week; 3 credits.

Education 453. PRINCIPLES OF KINDERGARTEN AND ELEMENTARY EDUCATION

Principles and methods of curriculum and instruction in the kindergarten-primary unit (K-3). Prerequisite: Education 325, 429. 3 periods a week; 3 credits.

Education 454. PRINCIPLES OF ELEMENTARY EDUCATION

Principles and methods of curriculum and instruction in the upper elementary grades (4-7). Prerequisite: Education 325, 429. 3 periods a week; 3 credits.

Education 455. PRINCIPLES OF SECONDARY EDUCATION

Principles and methods of curriculum and instruction in the secondary school. Required of all majors seeking the Collegiate Certificate at the secondary level. Open to juniors only. 3 periods a week; 3 credits.

Education 459. THE PUBLIC SCHOOL IN THE AMERICAN COMMUNITY

The relationship of the teacher to various aspects of public education, including organization and administration. 3 credits.

Education 470. COMPARATIVE EDUCATION

A study of educational systems in selected nations with emphasis on historical, philosophical and cultural differences. 3 credits.

Education 485. PRODUCTION OF MEDIA FOR INSTRUCTION

A laboratory course involving production techniques of media materials for classroom utilization. 3 credits.

The Professional Semester

All students in teacher education programs will participate in a professional semester in their senior year during the semester in which they engage in the student teaching practicum. The semester is divided into the ten-week practicum and a six-week flexible modular professional program. The semester offers a total of 18 semester hours credit.

THE STUDENT TEACHING PRACTICUM

Education 400. DIRECTED TEACHING IN THE KINDERGARTEN AND PRIMARY GRADES

Required of all majors in elementary education in the K-3 option. See prerequisites for student teaching. 10 credits.

Education 401. DIRECTED TEACHING IN THE UPPER ELEMENTARY GRADES

Required of all majors in the upper elementary option. See prerequisites for student teaching. 10 credits.

Education 402. DIRECTED TEACHING IN THE SECONDARY SCHOOL

Required of all students in the secondary education curricula. See prerequisites for student teaching. 10 credits.

Education 403. DIRECTED ELEMENTARY TEACHING FOR ART, MUSIC, AND PHYSICAL EDUCATION

Five credits.

Education 404. DIRECTED SECONDARY TEACHING

Five credits.

Education 405. DIRECTED PRACTICUM IN LIBRARY SCIENCE

Five credits.

THE PROFESSIONAL MODULE

Education 480. MEASUREMENT AND EVALUATION MODULE

The theory and practice in construction of teacher-made evaluation instruments and the selection, administration and interpretation of selected standardized tests related to instruction. Thirty 60-minute periods; 2 credits.

Education 482. PHILOSOPHICAL FOUNDATIONS MODULE

An overview of the different philosophical approaches to education exemplified in current practice. Thirty 60-minute periods; 2 credits.

Education 484. MEDIA MODULE

A laboratory module concerned with the utilization of basic multi-media in learning processes. Ten 90-minute periods; 1 credit.

Education 486. DISADVANTAGED CHILDREN AND YOUTH SIMULATION MODULE

Introductory study of definitions, causes and characteristics of children and youth from disadvantaged environments. Emphasis on inner-city and rural patterns. Implications for educational programs and teaching strategies. 3 credits.

Education 488. EDUCATION SEMINAR

A series of discussions concerned with orientation to the teaching profession, the American school system, trends and innovations in education, and current research. Periods to be scheduled. 1 credit.

For Graduates and Advanced Undergraduates

Advanced juniors and seniors may enroll in any of the following courses for undergraduate credit.

Education 525. READING IN THE ELEMENTARY AND SECONDARY SCHOOL

A study of the teaching principles and techniques in the field of reading. Prerequisite: Education 325 and teaching experience. 3 credits.

Education 526. TECHNIQUES IN DIAGNOSIS AND REMEDIAL READING METHODS

The diagnosis of reading difficulties and remedial procedures in reading. 3 credits.

Education 527. PRACTICUM IN DIAGNOSTIC AND REMEDIAL TECHNIQUES IN READING

The diagnosis of reading difficulties and directed practice in remedial procedures in a clinical setting. Summer only; 6 credits.

Education 530. TEACHING READING IN THE CONTENT AREA

A detailed analysis of the development of specific reading skills in the subject matter areas. 3 credits.

Education 545. INTRODUCTION TO GUIDANCE AND COUNSELING

Introductory course in the techniques of counseling boys and girls in elementary and high schools. Prerequisite: Education or equivalent. 3 credits.

Education 547. INSTRUCTIONAL MEDIA

Deals with the evaluation, selection, utilization, and integration of audio-visual media in the teaching-learning process. 3 credits.

NATIONAL TEACHER EXAMINATION

All prospective teachers seeking initial certification on or after July 1, 1980 will be required to take the National Teacher Examination (NTE). An applicant for certification must present test scores in the "Commons" and at least one subject endorsement area examination.

Scores from the NTE must be reported to Longwood College and the Virginia Department of Education. These scores must be on file with the chairman of the Department of Education, Longwood College before a recommendation for certification can be sent to the Virginia Certification Division of the State Department of Education.

ENGLISH (23)

English 051. ENGLISH SKILLS LABORATORY

An individualized program for students at all levels who want to improve writing skills. The laboratory program includes instruction and practice in such skills as grammar, sentence and paragraph structure, the mechanics of the term paper, and writing for examinations. This course does not satisfy general education requirements and credit cannot be used toward graduation. 1 credit. (May be repeated for credit twice up to a maximum of 3 credits. Pass/Fail)

English 100. EXPOSITORY WRITING AND RESEARCH

Frequent assignments in reading and writing expository prose, combined with a brief review of grammar, conferences with the instructor, and intensive consideration of techniques of research and documentation. 3 periods a week; 3 credits.

English 101. INTRODUCTION TO LITERATURE AND COMPOSITION

An introduction to literary analysis, with close reading and careful written analysis of selections from poetry and fiction. Continued emphasis on techniques of composition combined with a study of the methods of literary criticism. 3 periods a week; 3 credits.

(NOTE: Both English 100 and 101 are REQUIRED OF ALL STUDENTS; English 100 is prerequisite to all other English courses; English 101 may, with permission of the department chairman, be taken concurrently with other English courses.)

English 109. CONTEMPORARY STUDIES

(These courses may not be taken to meet English major requirements or required electives.)

God Spells. Readings in modern secular literature containing various ideas of supreme reality. 3 periods a week; 3 credits.

Man and Society: The Poet's Vision.

A thematic consideration of selected poets, designed to reveal poetry as a vehicle for social commentary. 3 periods a week; 3 credits.

English 110. INTRODUCTION TO JOURNALISM

Fundamentals of reporting, writing, and editing for the print press. Combines lecture and discussion with practical work on *The Rotunda*. Texts include national newspapers and magazines. Some attention to feature writing and writing to the electronic media, and to history and theory of journalism. Required for certification. 3 credits.

English 120, 121. SURVEY OF ENGLISH LITERATURE

The literature of England from the Old English period into the 20th century. 3 periods a week; 3 credits each semester.

English 140, 141. SURVEY OF AMERICAN LITERATURE

First semester: selected American writers from William Bradford to Walt Whitman; second semester: selected American writers from Emily Dickinson to William Faulkner. 3 periods a week; 3 credits each semester.

English 150. AMERICAN MINORITY LITERATURE

A survey of the poetry, drama, and fiction produced by such American minorities as the Black, Indian, Chicano, and Asian, and their place in the mainstream of American literature. 3 periods a week; 3 credits.

English 160, 161. SURVEY OF WORLD LITERATURE

Selected figures, types and themes of world literature from the Greek Period to modern times. 3 periods a week; 3 credits each semester.

English 163. THE BIBLE AS LITERATURE

The Old and New Testaments as works of literature. 3 periods a week; 3 credits.

English 210. DEPTH REPORTING AND FEATURE WRITING

Review of basic newswriting. Introduction to investigative reporting. Extensive practice in writing of editorials, "op-ed" columns, feature stories, and arts and media reviews. 3 credits.

English 211. WRITING WORKSHOP I

The short story, the novel, and narrative description. 3 periods a week; 3 credits.

English 212. WRITING WORKSHOP II
Fiction or poetry. Continuation of Workshop I with greater emphasis on independent work and conferences. 3 periods a week; 3 credits.

English 220. LITERARY CRITICISM

A historical survey of the major critical statements and approaches from Plato and Aristotle to such contemporary works as *The Poetics of Space* and *The Psychoanalysis of Fire* by Bachelard. 3 periods a week; 3 credits.

English 221. THE ENGLISH NOVEL TO 1920

Development of the English novel from Defoe to Henry James. 3 periods a week; 3 credits.

English 222. MODERN BRITISH NOVEL

The development of the British novel since 1920. Lawrence, Woolf, Huxley, Beckett, Greene, Sillitoe, and Burgess will be included. 3 periods a week; 3 credits.

English 223 (Dramatic Arts 223).

SHAKESPEARE

A study of twelve of Shakespeare's plays, selected to illustrate his development as a dramatist and the importance of the drama in Elizabethan England. 3 periods a week; 3 credits.

English 240. THE AMERICAN NOVEL

Historical development of form and theme in the American novel. Romanticism, realism, and naturalism, to be considered in some depth. 3 periods a week; 3 credits.

English 241. THE CONTEMPORARY NOVEL

A study of the recent British and American novels, with emphasis on the American novel since 1945. The course will include such authors as Ellison, Hawkes, Updike, Mailer, Nabakov, Vonegut, Bellows, Salinger, and Golding. 3 periods a week; 3 credits.

English 242. MODERN POETRY

American and British poetry of the 20th century with emphasis upon modern American poets. 3 periods a week; 3 credits.

**English 243. POPULAR WRITING
IN AMERICA**

A study of the relationship between author and audience in popular writing with consideration of the formal conventions of genre fiction (SF, suspense, Western, etc.). Special topics may include history of magazines, the phenomenon of best sellers, and the emergence of the classic literature of one period from the popular writing of another. 3 periods a week; 3 credits.

**English 256 (Art 256). FILM STUDIES
I: HISTORY**

A survey of the first 50 years of the motion picture with emphasis upon the major directors of America, Germany, Russia, and France. 3 periods a week; 3 credits.

**English 257 (Art 257). FILM STUDIES
II: GENRE**

A study of the avant-garde, documentary, and fiction film with emphasis upon American and foreign filmmakers. 3 periods a week; 3 credits.

English 260. MYTHOLOGY

The course provides a survey of major myths of the world with emphasis on the Greco-Roman contribution. The mythopoeic genius is studied in its source, manifestations, and influence upon literature. 3 periods a week; 3 credits.

**English 267 (Dramatic Arts 267).
WORLD DRAMA**

A study of the forms and types of representative plays in the main current of world drama from its beginning to Goethe. In sequence with English 268 and 269. 3 periods a week; 3 credits.

**English 268 (Dramatic Arts 268).
MODERN EUROPEAN DRAMA**

A study of the European theatre from Goethe through Shaw. In sequence with English 267 and 269. 3 periods a week; 3 credits.

**English 269 (Dramatic Arts 269).
CONTEMPORARY DRAMA**

A literary study of European and American drama that has made the greatest theatrical, literary, and/or social impact in recent years. 3 periods a week; 3 credits.

**English 280. CHILDREN'S
LITERATURE**

A course designed to assist students preparing to teach in the elementary schools in the selection and evaluation of books and other forms of media appropriate to this age level and in the use of poetry, prose, and other media in the elementary classroom; includes survey of children's literature. This course will not contribute toward the English requirement for general education. 3 periods a week; 3 credits.

**English 281. LITERATURE FOR
YOUNG ADULTS**

A course designed to assist students preparing to teach in the secondary schools in the selection and evaluation of books for this age level, including adult books and classics, as well as other forms of media which might be used in the secondary classroom. This course will not contribute toward the English requirement for general education. 3 periods a week; 3 credits.

**English 282. TRADITIONAL GRAMMAR
AND MODERN ENGLISH
GRAMMAR**

Three periods a week; 3 credits.

English 295. THE SHORT STORY

A study of the modern short story as a literary form. 3 periods a week; 3 credits.

**English 296. CRITICAL APPROACHES
TO THE MASS MEDIA**

An introduction to communications theory and to mass media as "new languages." Examination of established and alternative print and electronic media as social forces and aesthetic objects. Students will explore the form and content of print press, advertising, film, radio/TV, rock and pop recordings, and the like. 3 credits.

**English 310. NARRATIVE NON-
FICTION AND THE LITERATURE
OF FACT**

A nonfiction writing workshop based on a study of the literary development of the New Journalism. Students learn the careful application of fictional techniques to the writing of their own nonfiction through projects that lead to full-length articles and essays. One three-hour seminar weekly. 3 credits.

**English 320. SIXTEENTH CENTURY
POETRY AND PROSE**

A survey of non-dramatic poetry and prose. 3 periods a week; 3 credits.

**English 321. SEVENTEENTH CENTURY
POETRY AND PROSE,
EXCLUSIVE OF MILTON**

Donne, Jonson, Herrick, Herbert, Marvell, and other poets with selected prose writers. Prerequisite: English 120, 121 or consent of instructor. 3 periods a week; 3 credits.

**English 322. ENGLISH LITERATURE
OF THE 18th CENTURY**

A survey of neo-classical poetry and prose with emphasis on Defoe, Addison, Steele, Swift, Pope, Richardson, Fielding, Johnson, and Goldsmith. Prerequisite: English 120, 121 or consent of instructor. 3 periods a week; 3 credits.

**English 323. MAJOR BRITISH
ROMANTIC POETS**

Wordsworth, Coleridge, Byron, Keats, Shelley. Prerequisite: English 120, 121 or consent of instructor. 3 periods a week; 3 credits.

English 360. THE EPIC IN TRANSLATION

A close reading of *The Iliad*, *The Odyssey*, and *The Aeneid*, with consideration of other epics chosen from classical and world literature. 3 periods a week; 3 credits.

**English 365, 366. CONTINENTAL
LITERATURE**

First semester: ancient medieval, and Renaissance European classics in translation. Second semester: European literature of the neo-classical, romantic, and modern periods in translation. Prerequisite: 6 hours of credit in English or foreign language literature beyond the freshman level. 3 periods a week; 3 credits each semester.

**English 415. ADVANCED COMPOSITION
AND ANALYSIS OF LITERARY
GENRES**

An indepth course in written composition, organized along seminar lines, the courses will cater to the particular weakness of the individual student, with an equal emphasis on literature and composition. 3 periods a week; 3 credits.

English 430. STUDIES IN BRITISH POETRY

Hopkins, Yeats, Thomas. A consideration of post-romantic theories of poetic language and form. Emphasis will be given to the evolution of Yeats' poetry. 3 periods a week; 3 credits.

English 440. STUDIES IN MODERN AMERICAN POETRY

Major developments in contemporary American poetry. Stevens and Crane or Eliot, Pound, Williams. 3 periods a week; 3 credits.

English 450. SOUTHERN WOMEN WRITERS

A study of works by such writers as Katherine Anne Porter, Eudora Welty, Flannery O'Connor, and others. 3 periods a week; 3 credits.

English 480. THE TEACHING OF ENGLISH

A study of current practices with emphasis on specific techniques and materials. Prerequisite: appearing before the English Pre-Teaching Committee. 3 periods a week; 3 credits.

English 481, 482. READING AND EVALUATION OF WRITTEN WORK

A tutorial course designed to prepare the teaching candidate to determine the effectiveness of English Composition. Permission of instructor required. 1 period a week; 1 credit per semester.

DIRECTED TEACHING OF ENGLISH IN THE HIGH SCHOOL

Students majoring in English, preparing to teach English in the high school, carry on directed teaching in this field during their senior year as Education 400, under a general supervisor, supervising teacher, and a consultant in the Department of English.

English 497, 498. INDEPENDENT STUDY

A directed reading and/or research program administered by qualified specialists in the department. The student must secure the director's approval prior to registering for this course. 1-3 credits per semester.

For Juniors, Seniors, and Graduate Students

English 510. CREATIVE WRITING

Experience in both traditional and contemporary techniques of poetry; extensive classroom analysis of poems by students. Some emphasis on problems in the teaching of creative writing. Attention will also be given to the practical and professional aspects of poetry writing, including instruction in how to submit manuscripts, a general survey of the current publishing situations, and a thorough introduction to reference tools for writers. Occasionally the course may concern itself with fiction. 3 periods a week; 3 credits.

English 520. MIDDLE ENGLISH LITERATURE

A study of English literature from the Norman Conquest to Malory, exclusive of Chaucer. 3 periods a week; 3 credits.

English 521. ARTHURIAN LITERATURE

A comparative study of Arthurian materials of various countries from the medieval through the modern periods. 3 periods a week; 3 credits.

English 522, 523. CHAUCER

A study of Chaucer's major poetry, with emphasis on *Troilus and Criseyda* in one semester, and on *The Canterbury Tales* in the other. Prerequisite: English 120, 121 or consent of instructor. 3 periods a week; 3 credits.

English 524, 525 (Dramatic Arts 524, 525). SHAKESPEARE

A chronological study of Shakespeare's works. 3 periods a week; 3 credits each semester.

English 526. MILTON

A study of Milton's thought, to include a close reading of *Paradise Lost*, *Paradise Regained*, *Samson Agonistes*, and important minor poems and selected prose. Prerequisite: English 120 or consent of instructor. 3 periods a week; 3 credits.

English 527 (Dramatic Arts 527). ENGLISH DRAMA TO 1642

A study of the origin and development of English Drama from the Middle Ages until the closing of the theaters in 1642. 3 periods a week; 3 credits.

English 530, 531. LITERATURE OF THE VICTORIAN AGE

A study of the major literary figures of the Victorian Age, with emphasis on Tennyson, Browning, Arnold, Rossetti, Swinburne, Carlyle, Macaulay, Ruskin, and Pater; some attention to be given to the major novelists. Prerequisite: English 120, 121 or consent of instructor. 3 periods a week; 3 credits each semester.

English 532. MODERN BRITISH AND AMERICAN POETRY

Intensive reading of selected British and American poets stressing the intellectual background and coherence of their work. Some emphasis will be given to critical method. Yeats, Thomas, and Wallace Stevens are figures which have been read. 3 periods a week; 3 credits.

English 533. YEATS AND JOYCE

A study of the complete poems of Yeats and novels of Joyce, primarily *Portrait* and *Ulysses*, with a consideration of the general Irish revival. 3 periods a week; 3 credits.

English 540. THE LITERARY REPUTATIONS OF NINETEENTH CENTURY AMERICAN NOVELISTS

An intensive study of the major works of Hawthorne, Melville, Clemens, and James. 3 periods a week; 3 credits.

English 542. THEORY OF FICTION
Survey of fiction, primarily British and American, with particular attention to theoretical concerns of novelists and critics which have shaped the novel throughout its history. 3 periods a week; 3 credits.

English 550. LITERATURE OF THE SOUTH

Survey of literature produced in the South from 1607 to the present, with emphasis on Poe, the Nashville Agrarians and Faulkner. 3 periods a week; 3 credits.

English 551. POE AND HIS INFLUENCE

Edgar Allan Poe's achievements as a poet, critic, novelist, and writer of tales, together with a study of his impact upon such figures as Baudelaire, Valery, Eliot, Tate, and Borges. Special consideration is given to Poe's effect upon the New Criticism. 3 periods a week; 3 credits.

English 552. FAULKNER

A study of his major novels, with emphasis on the Yoknapatawpha cycle. 3 periods a week; 3 credits.

English 570. HISTORY OF THE ENGLISH LANGUAGE

A survey of the language from its beginnings to its present-day state. Old, Middle, Early Modern, and Modern English. 3 credits.

English 580. PROBLEMS IN THE TEACHING OF HIGH SCHOOL ENGLISH

Solutions are sought to the major problems in the teaching of high school literature, language, and composition. Open only to undergraduate students and graduate students holding the Collegiate Professional Certificate. NOTE: This course will not contribute toward the 30-hour English major requirement. 3 periods a week; 3 credits.

English 581. PRACTICAL LITERARY CRITICISM

A study of the various methods of evaluating literature. Historical, humanistic, philosophical, and formalistic approaches demonstrated in the criticism of the selected works. 3 periods a week; 3 credits.

English 582. LITERATURE FOR YOUNG ADULTS

A course designed to assist students preparing to teach in the secondary schools in the selection and evaluation of books for this age level, including adult books and classics, as well as other forms of media which might be used appropriately in the secondary classroom. This course will not contribute toward the English requirement for general education. (Students who take English 281 may not take English 582 for credit.) 3 periods a week; 3 credits.

FRENCH (27)

French 100. ELEMENTARY FRENCH

A study of fundamentals. Grammar and oral comprehension. Emphasis on pronunciation. No credit is given to a student with more than two years of secondary school study in the language. 3 class periods and 2 drill sessions per week; 4 credits.

French 110. INTERMEDIATE FRENCH

Review of grammar. Emphasis on the development of skill in reading. Prerequisite: French 100 or two years of high school French. Does not fulfill the general education requirement in literature. 3 class periods and one drill session per week; 3 credits.

French 200. BASIC TRANSLATION

A basic course in the technique of translation for the career-oriented student. Materials chosen will be taken from the fields of advertising, biology, and business. Particularly recommended for majors in business and pre-nursing. Individualized instruction. Minimum requirement: two years of high school French. 3 periods a week; 3 credits.

French 210. FRENCH CONVERSATION

Review of vocabulary and syntax. Emphasis on developing conversational skills through dialogues and discussions. Prerequisite: French 110, 200 or advanced placement. Does not fulfill the general education requirement in literature. 3 class periods and one drill session per week; 3 credits.

French 230. CIVILIZATION AND CULTURE

A study of French civilization and culture, with emphasis on social institutions of the 20th Century. Prerequisite: French 100-110 or advanced placement. Does not fulfill the general education requirement in literature. 3 periods a week; 3 credits.

French 241, 242. A SURVEY OF FRENCH LITERATURE

Fall: Origins through the Eighteenth Century; spring: Nineteenth and Twentieth Centuries. Prerequisite: French 100-110 or advanced placement. This course is prerequisite to other literature courses. With permission of the department it may be taken concurrently with other French literature courses. 3 periods a week; 3 credits each semester.

French 341. PROSE AND POETRY OF THE SEVENTEENTH CENTURY

Literary trends in French Classicism. Study in depth of Descartes, Pascal, La Fontaine. 3 periods a week; 3 credits.

French 342. DRAMA OF THE SEVENTEENTH CENTURY

Classicism applied to the theatre. Corneille, Racine, Moliere. 3 periods a week; 3 credits.

French 351. THE AGE OF ENLIGHTENMENT

The crises of conscience at the beginning of the Eighteenth Century. Marivaux, Montesquieu, Diderot, Voltaire, the Encyclopedists. 3 periods a week; 3 credits.

French 352. SENTIMENT AND PRE-ROMANTICISM

Literature of the last half of the Eighteenth Century. Rousseau, Buffon, Chenier, Beaumarchais; literature of the Revolution. 3 periods a week; 3 credits.

French 400. METHODS OF TEACHING FRENCH

Recommended to be taken in the junior year. 3 periods a week; 3 credits.

French 401. ADVANCED GRAMMAR AND COMPOSITION

A review course; limited to juniors and seniors. Recommended to be taken before student teaching. 3 periods a week; 3 credits.

French 402. ADVANCED CONVERSATION AND PHONETICS

Theory and practice in the spoken language. Valid techniques and their uses in attaining mastery of oral French. 3 periods a week; 3 credits.

French 461, 462. LITERATURE OF THE NINETEENTH CENTURY

Romanticism, Realism, Naturalism, and the Parnassian and Symbolist movements. 3 periods a week; 3 credits each semester.

French 471. LITERATURE OF THE TWENTIETH CENTURY

Main Currents: 1900-1949. Study of Gide, Proust, Claudel, Valery, Peguy, Surrealism, Malraux, Mauriac, Green, Saint-Exupery. 3 periods a week; 3 credits.

French 472. CONTEMPORARY FRENCH LITERATURE

Literature since 1940. Existentialism, avant-garde theatre, New Novel, poetry, cinema. 3 periods a week; 3 credits.

**French 491, 492. SPECIAL TOPICS
IN LITERATURE AND CIVILIZA-
TION**

The topics will rotate on a regular basis from semester to semester. Prerequisite: senior standing or permission of instructor. 3 periods a week; 3 credits each semester.

French 521. DIRECTED STUDY

Individualized study; recommended only when material cannot be studied in scheduled courses. By permission of department chairman. No more than 6 credits may be earned in 521.

GEOGRAPHY (29)

***Geography 201. BASIC ELEMENTS
OF GEOGRAPHY**

The scope and nature of geographic philosophies are treated. Special emphasis is placed on the significance of man, culture, and the cultural processes in the organization of space on the earth's surface. 3 periods a week; 3 credits.

**Geography 212. WORLD GEO-
GRAPHY—A CONCEPTUAL
APPROACH**

An experimental and practical approach in teaching world and regional geography. Skills involved in reading and interpreting geographic data will be emphasized. Prerequisite: Geography 201 or permission of instructor. 3 periods a week; 3 credits.

**Geography 241. CULTURAL
GEOGRAPHY**

A study of the interaction between man and the land. Spatial and time elements are interwoven with selected topics such as man's religions, settlement patterns, racial stocks, economics, and population characteristics. 3 periods a week; 3 credits.

**Geography 242. ECONOMIC
GEOGRAPHY**

Relation of geographic factors to economic conditions in determining the nature and location of the several productive occupations and the distribution of the output of these occupations, including their transportation and marketing. Prerequisite: Geography 201 or permission of instructor. 3 periods a week; 3 credits.

**Geography 251 (Earth Science 251).
METEOROLOGY**

A study of basic weather phenomena and processes. The origin of air masses, source regions, and frontal zones are treated. 3 periods a week; 3 credits.

**Geography 252 (Earth Science 252).
PHYSICAL GEOGRAPHY**

A systematic study of pedology, hydrology, plant geography and earth resources and their interrelationships. Included are case studies of human impacts on the earth systems. 3 periods a week; 3 credits.

**Geography 353 (Earth Science 353).
GEOGRAPHY OF VIRGINIA**

Geographical appraisal of Virginia, including the geology, landforms, soils, climate, economic minerals, original vegetation, and the human geography of Virginia, emphasizing settlement and population, agriculture, industries and transportation. Prerequisite: Geography 201 or 251 and permission of instructor. 3 credits.

**Geography 358 (Earth Science 358).
CARTOGRAPHY**

Emphasis is focused on the construction of maps, figures, and charts at the pre-professional level. Modern techniques and processes are discussed along with conventional pen and ink methods. Examination and interpretation of maps and aerial photographs are included. Prerequisite: permission of instructor. 3 credits.

**Geography 401. GEOGRAPHY OF
SOUTHEAST ASIA**

Regional analysis of the physical geography and problems in the economic political geography of Southeast Asia. Emphasis on China, Japan, and India. Prerequisite: Geography 201 and permission of instructor. 3 periods a week; 3 credits.

**Geography 402. GEOGRAPHY OF
LATIN AMERICA**

Regional and systematic analysis of the geography of Latin America, including treatment of physical, cultural and economic characteristics of the several regions within the Latin American nations. 3 periods a week; 3 credits.

**Geography 403. GEOGRAPHY OF
EUROPE AND THE
MEDITERRANEAN**

Regional analysis of peninsula, western and central Europe and the Mediterranean Basin. Prerequisite: Geography 201 or permission of instructor. 3 periods a week; 3 credits.

**Geography 404. GEOGRAPHY OF
ANGLO-AMERICA**

Regional analysis of human geography of the United States, Canada, and Alaska, emphasizing the physical and economic factors affecting the utilization of the several regions. Prerequisite: Geography 201 or permission of instructor. 3 periods a week; 3 credits.

**Geography 405. REGIONAL GEO-
GRAPHY OF MODERN AFRICA**

A regional analysis of the geographical factors influencing the culture and economics of the African continent. Special emphasis will be placed on the present state of economic development. Prerequisite: Geography 201 or permission of instructor. 3 periods a week; 3 credits.

**Geography 410 (Earth Science 410).
REGIONAL PHYSIOGRAPHY
OF THE UNITED STATES**

Treatment of the processes that have shaped the varied surface features within the United States. Theories and concepts relating to geomorphic evolution in the major and minor physiographic divisions will be emphasized. Prerequisite: Geography 201 or Earth Science 252 or Earth Science 210. 3 credits.

**Geography 444. POLITICAL
GEOGRAPHY**

Geographic factors in major nations of the world and how they affect international relations, with analysis of current strategic positions of the U.S. and U.S.S.R. Prerequisite: Geography 201 or permission of instructor. 3 periods a week; 3 credits.

**Geography 450. GEOGRAPHY OF
CONTEMPORARY PROBLEM AREAS**

A physical, economic, historical, and cultural analysis of selected regions and nations in the news. A background for understanding present day conditions, and the social significance of the events occurring in these areas. Prerequisite: Geography 201 or permission of instructor. 3 periods a week; 3 credits.

Geography 453. GEOGRAPHICAL APPRAISAL OF THE SOVIET UNION

An evaluation of people, land, climate, resources and space as they bear on economic developments and political prospects of the Soviet Union. Prerequisite: Geography 201 or permission of instructor. 3 periods a week; 3 credits.

Geography 462. SPECIAL PROJECTS IN GEOGRAPHY

Students will carry out study or research projects under supervision of an instructor. Prerequisite: permission of instructor. May be repeated as Geography 463 and 464. 1, 2, or 3 credits. Six hours may be earned.

GERMAN (33)

German 100. ELEMENTARY GERMAN

A study of fundamentals. Grammar and oral comprehension. Emphasis on pronunciation. No credit is given to a student with more than two years of secondary school study in the language. 3 class periods and 2 drill sessions per week; 4 credits.

German 110. INTERMEDIATE GERMAN

Review of grammar. Emphasis on the development of skill in reading. Prerequisite: German 100 or two years of high school German. Does not fulfill the general education requirement in literature. 3 class periods and one drill session per week; 3 credits.

German 200. BASIC TRANSLATION

A basic course in the technique of translation for the career-oriented student. Materials chosen will be taken from the fields of advertising, biology, and business. Minimum requirement: two years of high school German. 3 periods a week; 3 credits.

German 210. GERMAN CONVERSATION

Review of vocabulary and syntax. Emphasis on developing conversational skills through dialogues and discussions. Prerequisite: German 110, 200 or advanced placement. Does not fulfill the general education requirement in literature. 3 class periods and one drill session per week; 3 credits.

German 230. CIVILIZATION AND CULTURE

A study of German civilization and culture, with emphasis on social institutions of the 20th century. Prerequisite: German 100-110 or advanced placement. Does not fulfill the general education requirement in literature. 3 periods a week; 3 credits.

German 241, 242. INTRODUCTION TO GERMAN LITERATURE

Survey of German literature from the Enlightenment to the present. Prerequisite: German 121-122 or advanced placement. This course is prerequisite to all other literature courses. With permission of the department, it may be taken concurrently with other German literature courses. 3 periods a week; 3 credits each semester.

German 400. METHODS OF TEACHING GERMAN

Recommended to be taken in the junior year. 3 periods a week; 3 credits.

German 401. ADVANCED GRAMMAR AND COMPOSITION

A review course; limited to juniors and seniors. Recommended to be taken before student teaching. 3 periods a week; 3 credits.

German 402. ADVANCED CONVERSATION AND PHONETICS

Theory and practice in the spoken language. Valid techniques and their uses in attaining mastery of oral German. 3 periods a week; 3 credits.

German 411, 412. TOPICS IN GERMAN LITERATURE

The topic will depend on the needs of the advanced students in German during a given semester. Topics include: the age of Goethe, the 19th and 20th centuries, German literature prior to 1750, drama, the *Novelle*, the novel and lyric poetry. 3 periods a week; 3 credits each semester.

German 521. DIRECTED STUDY

Individualized study; recommended only when material cannot be studied in scheduled courses. By permission of department chairman. 3 credits.

GOVERNMENT (35)

***Government 201. INTRODUCTION TO POLITICAL SCIENCE**

An introductory study of fundamental political concepts, principles, and institutions. 3 periods a week; 3 credits.

Government 202. INTRODUCTORY SURVEY OF DEMOCRATIC THEORY AND POLITICS

A study of the nature of democratic government, the variety of forms democracy may take, and the problems which usually develop in a democratic society. 3 periods a week; 3 credits.

***Government 215, 216. AMERICAN GOVERNMENT**

(Government 215—Federal; Government 216—State and Local) Study of American political institutions and processes, and discussions of current issues and problems of American government and politics. Field trips are usually required. 3 periods a week; 3 credits.

Government 331. POLITICAL PHILOSOPHY

Survey of outstanding political theories and philosophies from ancient Greece through the Middle Ages, including political theory and philosophy of Plato, Aristotle, Cicero, St. Augustine, and St. Thomas Aquinas. 3 periods a week; 3 credits.

Government 332. POLITICAL THEORY AND PHILOSOPHY

Survey of outstanding political theories and philosophies of modern times, including theories of Machiavelli, Hobbes, Locke, Montesquieu, Rousseau, Burke, deTocqueville, J.S. Mill, Hegel, Marx, Lenin and Mao. 3 periods a week; 3 credits.

Government 341. AMERICAN POLITICAL THOUGHT TO 1860

An introduction to the principal thinkers and the central themes in American political thought to the Civil War. 3 periods a week; 3 credits.

Government 342. AMERICAN POLITICAL THOUGHT: 1860 to PRESENT

An introduction to the principal thinkers and the central themes in American political thought from the Civil War to modern times. 3 periods a week; 3 credits.

Government 343. AMERICAN FOREIGN POLICY

A study of U.S. foreign policy with special attention to the policy-making process, current problems in foreign affairs, and the development of long-range foreign policy. 3 periods a week; 3 credits.

Government 350. THE AMERICAN PRESIDENCY

An investigation of the modern presidency and its role in contemporary society. Special attention will also be given to the constitutional background of the office, the evolution of presidential powers, relationships between the presidency and Congress and the bureaucracy, presidential elections, and the role of the presidency in making public policy. 3 periods a week; 3 credits.

Government 360. POLITICAL PARTIES

Comparison of two-party systems with one-party and multi-party systems around the world; exploration of the nature, advantages, and disadvantages of political party systems, and special emphasis on the origin and development of the two-party system in the U.S. 3 periods a week; 3 credits.

Government 435. WESTERN EUROPEAN GOVERNMENT AND POLITICS

A study of the institutions and processes of the political system of England, France, and West Germany. 3 periods a week; 3 credits.

Government 436. RUSSIAN AND EASTERN EUROPEAN GOVERNMENT AND POLITICS

A study of the institutions and processes of the political systems of Russia and eastern European countries. 3 periods a week; 3 credits.

Government 437, 438. ASIAN GOVERNMENTS AND POLITICS

Study of the major Asian powers, primarily Communist China and Japan. Special attention given to the political systems and foreign policies. Offered on demand; 3 periods a week; 3 credits.

Government 441. INTERNATIONAL RELATIONS

Study of the various factors conditioning foreign policies of the state. Special attention given to the foreign policies of the major powers of the world. 3 periods a week; 3 credits.

Government 442. INTERNATIONAL ORGANIZATIONS

Study of the United Nations, its organization, activities, and policies and its role in world politics. 3 periods a week; 3 credits.

Government 455 (History 455). CONSTITUTIONAL HISTORY OF THE UNITED STATES

An examination of the Articles of Confederation is followed by a study of the writing, ratification, and continuing interpretation of the Constitution of 1787 leading to our current constitutional system. 3 periods a week; 3 credits.

Government 460, 461, 462. GOVERNMENT SEMINAR

Open to juniors and seniors. Offered on demand; 1 period a week; 1 credit.

Government 469 (History 469). SOVIET DIPLOMACY

A one-semester analysis of the diplomacy and foreign policy of Soviet Russia from 1917 to the present. Stress is placed on the political machinery and the motivating forces which determine such foreign policy. 3 periods a week; 3 credits.

Government 490, 491. GOVERNMENT SEMINAR

Open to juniors and seniors. Offered on demand; 3 periods a week; 3 credits.

Government 495. THE GOVERNMENT SEMESTER INTERNSHIP

Work in residence with the Virginia General Assembly for a complete session, the balance of the semester to be spent in directed study on a topic or topics approved by the department. Open to juniors and seniors. Prerequisite: Government 215, 216; and 341 or 342. 16 credits.

HEALTH (37) (38)

Health Education 100. FRESHMAN HEALTH EDUCATION

A prescribed program for all freshman students. A series of lectures on current health problems. 3 periods a week; 1 credit.

Health Education 211. DRUGS, ALCOHOL AND TOBACCO

A course designed to discuss in detail the physiological, psychological and emotional use and abuse of drugs, alcohol and tobacco in today's society. Each area will go into detail in the discovery and development of the use of the drug as it is known today. 3 periods a week; 3 credits.

Health Education 212. HUMAN SEXUALITY

A course designed to study the various specific components of human sexuality of children, adolescents and adults as they relate to physical, social and emotional needs. 3 periods a week; 2 credits.

Health Education 301. DRIVER EDUCATION

Classroom instruction and supervised experience in teaching practice driving. Prerequisite: valid driver's license and background of driving experience. This course is required for state endorsement in driver education. 3 periods a week, plus additional hours in behind-the-wheel instruction; 3 credits.

Health Education 302. SAFETY EDUCATION

The course is designed to emphasize an understanding and appreciation of the position of safety in modern life and the teaching of safety in the elementary and secondary schools. Additional attention is given to the psychological considerations, methods of teaching, safe school environment, liability of school personnel, and a safety program for all areas outside the school. 3 periods a week; 3 credits.

Health Education 336. SAFETY AND FIRST AID

A course in general safety accident prevention and first aid. American National Red Cross text will be used. 3 periods a week; 3 credits.

Health Education 345. CURRENT HEALTH PROBLEMS

Study of current health problems related to the health status of individuals, including at present: drug use and abuse, chronic and degenerative diseases, environmental health hazards, communicable diseases, and family living. 3 periods a week; 3 credits.

**Health and Physical Education 354.
PRINCIPLES AND PROCEDURES OF
TEACHING HEALTH AND PHYSICAL
EDUCATION IN JUNIOR AND
SENIOR HIGH SCHOOLS**

A combination of study and methods related to the school health program and physical education principles and activities for junior and senior high school girls and boys. 3 periods a week; 3 credits.

**Health and Physical Education 360.
ELEMENTARY SCHOOL HEALTH
AND PHYSICAL EDUCATION**

Health and physical education principles and activities for the elementary school. Required for a major in elementary education. 3 single and 1 double periods a week; 3 credits.

**Health and Physical Education 402.
ORGANIZATION AND ADMINISTRATION OF HEALTH, PHYSICAL
EDUCATION AND RECREATION**

The function of administration and administrative procedures in elementary, secondary, college and university departments. The emphasis is concerned with philosophy, organization, finance, personnel areas, facilities, program, public relations, office management, insurance and liability and other areas of administration. 3 periods a week; 3 credits.

**Health and Physical Education 403.
EVALUATION IN HEALTH AND
PHYSICAL EDUCATION**

Practice and theory in evaluation of performance in health and physical education activities including physical fitness; skills and motor performance tests, grading procedures; body measurements; written tests; and classification of students. 4 periods a week; 3 credits.

HISTORY (40)

SURVEY COURSES

***History 111, 112. WESTERN
CIVILIZATION**

A survey course in western civilization. First semester: from Stone Age to 1648; second semester: from 1648 to the present. 3 periods a week; 3 credits each semester.

***History 121, 122. UNITED STATES
HISTORY**

An introductory course in U.S. history. First semester: Colonial Foundations to Civil War Era; second semester: Civil War Era to Modern Times. 3 periods a week; 3 credits.

EUROPEAN HISTORY

**History 350. ANCIENT EUROPE
AND MIDDLE EAST**

A study of the political, economic, and social institutions, and the religious and intellectual evolution of Ancient Greece, Rome, and the states of the Middle East. Prerequisite: History 111 and sophomore to senior standing. 3 periods a week; 3 credits.

History 351. MEDIEVAL EUROPE

A study of the political, economic, and social institutions, and the religious and intellectual developments in Medieval Europe. Prerequisite: History 111 and sophomore to senior standing. 3 periods a week; 3 credits.

**History 352. RENAISSANCE AND
REFORMATION**

The social, cultural, religious, political, and economic forces which shaped Western Civilization from the High Middle Ages through the end of the era of the religious wars (c. 1300-1648). Prerequisite: History 111 and 112. 3 periods a week; 3 credits.

**History 353. EUROPE IN THE
SEVENTEENTH CENTURY**

This course emphasizes the age of Absolutism and Mercantilism of the major European countries — France, England, Spain, The United Netherlands, Sweden, The Union of Poland-Lithuania, and others. Prerequisite: History 111 and 112 or permission of instructor. 3 periods a week; 3 credits.

**History 354. THE ENLIGHTENMENT
AND THE FRENCH REVOLUTION**

The political, social, and cultural background of the Enlightenment, the main intellectual and philosophical developments of the Age of Reason, and the political and social influence of the *philosophes* as reflected in the experience of the French Revolution. Prerequisite: History 111 and 112. 3 periods a week; 3 credits.

*Recommended for General Education

**History 355. EUROPE IN THE
NINETEENTH CENTURY, 1815-1900**

The political, social, intellectual, and economic history of Europe from the Congress of Vienna to the turn of the century. Special emphasis is devoted to the impact of liberalism and militarism upon the development of the European states and upon the formation of modern political ideologies. 3 periods a week; 3 credits.

**History 356. EUROPE IN THE
TWENTIETH CENTURY, 1900 to
THE PRESENT**

The political, social, intellectual, economic, and military history of Europe in its world setting since the turn of the century. The importance of the two world wars, the impact of fascism and communism, and the continued significance of Europe through the Cold War are topical foundations for History 356. 3 periods a week; 3 credits.

**History 357. ENGLAND BEFORE
THE TUDORS, 55 B.C. to 1485**

A survey of the major political, social, and economic factors which shaped Europe prior to the Reformation, with emphasis on the Middle Ages. Prerequisite: History 111 or permission of instructor. 3 periods a week; 3 credits.

**History 358. THE FIRST BRITISH
EMPIRE, CIRCA 1497 TO 1783**

A study of British imperial accomplishment from the earliest ventures of the Tudors through the Treaty of Paris and the formal relinquishment of the American colonies in 1783, with emphasis on North American colonization (Canadians as well as U.S.), the activities of the East India Company, and the early exploration of the South Seas and Africa. Prerequisite: History 111 or permission of instructor. 3 periods a week; 3 credits.

**History 359. RUSSIAN HISTORY
TO 1894**

A study of the history and civilization of Russia from the Kievan period through the reign of Alexander III. Primary emphasis is given to the modernization efforts of Peter the Great and Catherine the Great and to the reforms of Alexander II. The 19th century revolutionary movement from the Decembrists of 1825 through the fragmentations of the Populist movement in the 1880's is also greatly emphasized. 3 periods a week; 3 credits.

History 360. RUSSIAN HISTORY SINCE 1894

A study of Russia from the reign of Nicholas II to the present. Stress is placed on the factors leading to the collapse of the monarchy, the growth of the revolutionary parties, the revolutions of 1905 and 1917, the construction of the Soviet system, the Stalinist era, and the post-Stalinist regimes. There is little effort made in the course to deal with diplomacy or foreign policy. 3 periods a week; 3 credits.

History 463. EUROPEAN HISTORIOGRAPHY

An intensive examination of the writing of history in Europe since the Renaissance, and an analysis of those British and continental historians who have exerted a major influence in shaping the image of the European past and in developing the major concepts of modern historical studies. Important figures to whom special attention will be devoted include: Guiccardini, Vico, Voltaire, Gibbon, Michelet, Stubbs, Marx, Macaulay, Carlyle, Ranke, Treitschke, Sybel, Troeltsch, Dilthey, Ritter, Meinecke, Schnabel, Fischer, Bracher, Friedjung, Jaszi, Albertini, Croce, Kluchevsky, and Trotsky. 3 periods a week; 3 credits.

History 465. TUDOR-STUART ENGLAND, 1485-1714

The major social, political, economic, and religious forces of one of England's most dynamic periods are critically examined against the backdrop of the 16th Century Renaissance and the 17th Century Intellectual Revolution. Research paper or critical book analysis required. Background in Western Civilization recommended. 3 periods a week; 3 credits.

History 466. GEORGIAN ENGLAND, 1714-1815

A survey of the social, cultural, and political trends in the 18th Century, with individual topics and reports by students. Prerequisite: History 112 or permission of instructor. 3 periods a week; 3 credits.

History 467. VICTORIAN ENGLAND, 1815-1900

Special emphasis on the political history of 19th Century England and the Empire, with report topics on literary and cultural developments. Prerequisite: permission of instructor or recommendation of English Department. 3 periods a week; 3 credits.

History 469 (Government 469). SOVIET DIPLOMACY

A one-semester analysis of the diplomacy and foreign policy of Soviet Russia from 1917 to the present. Stress is placed on the political machinery and the motivating forces which determine such foreign policy. 3 periods a week; 3 credits.

History 473. THE EMERGENCE OF MODERN GERMANY, 1648-1870

The political, social, cultural, economic and religious history of German-speaking central Europe between 1648 and 1870. Special emphasis is placed on the dynastic emergence of Prussia as a great power in Europe, and on the significant influence that the characteristics of the Prussian state had in shaping the nature of the German Empire created by Bismarck. Offered on demand; 3 periods a week; 3 credits.

History 474. MODERN GERMANY, 1870 TO THE PRESENT

The political, cultural, intellectual, and economic development of Modern Germany in its European setting since the period of unification. During the semester, major attention is devoted to the four decisive periods that have shaped the development of German-speaking central Europe: The Wilhelmian Period and the First World War; the Weimar Republic; the National Socialist Period and the Second World War; and the development of the two post-war Germanies. 3 periods a week; 3 credits.

AMERICAN HISTORY

History 301. AMERICAN COLONIAL HISTORY

A study of the English North American colonies from 1607 to 1783 with emphasis on settlement; governmental, economic, social, and religious development; and the cause, course, and results of the American Revolution. Prerequisite: History 121. 3 periods a week; 3 credits.

History 302. THE EARLY NATIONAL PERIOD OF THE UNITED STATES

A study of the period from the adoption of the Constitution to the end of the Mexican War, with special attention to development of political institutions and practices, but attention as well to economic growth, reform movements, and westward expansion. Prerequisite: History 121. 3 periods a week; 3 credits.

History 303. CIVIL WAR AND RECONSTRUCTION

The United States from the close of the Mexican War to the Compromise of 1877 with emphasis on the constitutional, political, economic, and social (as opposed to military) aspects of the period. Prerequisite: History 121. 3 periods a week; 3 credits.

History 304. EMERGENCE OF MODERN AMERICA

The United States from the Compromise of 1877 to the First World War. The Industrial Revolution and its consequences, the conquering of the Far West, the Populist Revolt, the Progressive Movement, and the rise of the United States to world power comprise the focal points of the course. Prerequisite: History 122. 3 periods a week; 3 credits.

History 305. MODERN AMERICA

A history of the United States from the 1920's to the present. Prerequisite: sophomore to senior standing. 3 periods a week; 3 credits.

History 307. DIPLOMATIC HISTORY OF THE UNITED STATES TO 1898

A study of American foreign relations from the American Revolution to 1898. Prerequisite: History 121. 3 periods a week; 3 credits.

History 308. DIPLOMATIC HISTORY OF THE UNITED STATES SINCE 1898

American foreign relations and diplomatic activities from the Spanish-American War to the present. Prerequisite: sophomore to senior standing. 3 periods a week; 3 credits.

History 309. AMERICAN SOCIAL AND INTELLECTUAL HISTORY

A study of the major developments in American thought and culture from the Colonial period through the Civil War with special emphasis on Puritanism, the Enlightenment, and the romantic movement. Prerequisite: History 121. 3 periods a week; 3 credits.

History 310. AMERICAN SOCIAL AND INTELLECTUAL HISTORY

A study of major developments in American thought and culture since the Civil War with special emphasis on Darwinism, liberal reform, conservative reaction, the affluent society and the counter culture. Prerequisite: History 122. 3 periods a week; 3 credits.

History 311. THE HISTORY OF WOMEN IN AMERICA

A study of the changing role of women in America from the Colonial period to the present, contrasting the ideology of women's place in society with the reality of their lives. Special emphasis is given to the Victorians, the fight for women's suffrage, and the women's liberation movement of the 20th Century. Prerequisite: History 121, 122 or permission of instructor. 3 periods a week; 3 credits.

History 312. THE AMERICAN WEST

A study of the trans-Mississippi West with emphasis on 19th century exploration and settlement, including the Indian barrier, and the mining, cattle, and farming frontiers. 3 periods a week; 3 credits.

History 314 (Economics 307). ECONOMIC HISTORY OF THE UNITED STATES

A study of the economy of the United States from Reconstruction to the present. Prerequisite: Economics 202 or 231-232, or History 122. 3 periods a week; 3 credits.

History 402. AMERICAN HISTORIOGRAPHY

The writing and interpretation of American history from colonial times to the present. Recommended only for history and social science majors. Prerequisite: History 121, 122. 3 periods a week; 3 credits.

History 404. VIRGINIA HISTORY

A survey of the political development of Virginia from 1607 to the 20th Century. Prerequisite: History 121 and 122 or permission of instructor. 3 periods a week; 3 credits.

History 405. VIRGINIA HISTORY

The social and cultural study of Virginia with special emphasis on the teaching of Virginia history in secondary and elementary schools. Field trips and research topics of a social and cultural nature are involved in this course. Prerequisite: History 121 and 122 or permission of instructor. 3 periods a week; 3 credits.

History 406. THE OLD SOUTH

A study of the basic political, economic and social institutions, forces, and problems which collectively shaped the antebellum South. Prerequisite: History 121. 3 periods a week; 3 credits.

History 455 (Government 455). CONSTITUTIONAL HISTORY OF THE UNITED STATES

An examination of the Articles of Confederation is followed by a study of the writing, ratification, and continuing interpretation of the Constitution of 1787 leading to our current constitutional system. 3 periods a week; 3 credits.

LATIN-AMERICAN HISTORY

History 331, 332. LATIN-AMERICAN HISTORY

First semester: the Colonial period. Second semester: the period of independence. Offered on demand; 3 periods a week; 3 credits.

History 333. LATIN AMERICA IN THE TWENTIETH CENTURY

Social, political, cultural, and economic movements since the beginning of the 20th Century, with special emphasis on Mexico, Brazil, Argentina, Chile, Peru, Uruguay, and Colombia. Offered on demand; 3 periods a week; 3 credits.

ASIAN HISTORY

History 335. HISTORY OF THE FAR EAST

A survey of Chinese cultural and political history. Special emphasis is given to the modern period; the impact of the West, the domestic crises, the reform movements, the Republican revolution, the Communist Revolution. 3 periods a week; 3 credits.

History 336. HISTORY OF THE FAR EAST

A survey of Japanese cultural and political history. Special emphasis is given to the modern period, the opening of Japan, the Meiji Restoration, modernization, the rise of militarism, American occupation and important current issues. 3 periods a week; 3 credits.

OTHER UNDERGRADUATE HISTORY COURSES

History 400. SPECIALIZED TOPICS IN HISTORY

Offered on demand; 3 periods a week; 3 credits.

History 401. DIRECTED READING IN HISTORY

Must be approved by chairman of the department. 2 credits.

History 460, 461. HISTORY SEMINAR

Offered on demand; open to junior and senior history majors. 1 period a week; 1 credit.

History 490, 491. HISTORY SEMINAR

Offered on demand; open to junior and senior history majors. 3 periods a week; 3 credits.

HOME ECONOMICS

Home Economics 100. INTRODUCTION TO HOME ECONOMICS

Survey of the field of home economics including the history, philosophy, career opportunities and trends. Required of all home economics freshmen majors and all transfer students who have elected the home economics major. 1 period a week; 1 credit.

Home Economics 101. FAMILY DEVELOPMENT

The continuing development of interpersonal relationships of family members throughout the life cycle. 3 periods a week; 3 credits.

Home Economics 120. CONSUMER APPAREL

A study of the factors involved in selecting and caring for ready-made apparel. Open to non-majors and home economics majors in Option III. 2 periods a week; 2 credits.

Home Economics 127. CLOTHING SELECTION AND CONSTRUCTION

A study of the basic principles of clothing construction and selection as applied to individual needs and appearance. Opportunity is provided in laboratory for creative modification of commercial patterns. 1 single and 2 double periods a week; 3 credits.

Home Economics 128. TEXTILES

A study of natural and man-made fibers for home and personal end uses emphasizing fiber properties, fabric construction and finishes. Laws and standards influencing the textile industry, garment industry, and the consumer are analyzed. 3 periods a week; 3 credits.

Home Economics 133. PRINCIPLES OF FOOD PREPARATION

Application of scientific principles in the preparation of food. 2 single and 1 double periods a week; 3 credits.

Home Economics 134. FOOD MANAGEMENT

Planning and preparing food for family meals. Consideration will be given to variation in family composition and income. Home Economics 133 recommended or consent of instructor. 2 single and 1 double periods a week; 3 credits.

Home Economics 222. FAMILY CLOTHING NEEDS

A study of the factors involved in the selection of family clothing in accordance with the stages of the family life cycle. Construction of garments for family members with emphasis on fabric choice, garment design and fitting. Prerequisite: Home Economics 127, 128 or consent of instructor. 1 single and 2 double periods a week; 3 credits.

Home Economics 235. NUTRITION

Principles of human nutrition; discussion of the essential nutrients. Chemistry 101 recommended. 3 single periods a week; 3 credits.

Home Economics 242. HOME EQUIPMENT

A study of the household equipment industry and the principles of selection, construction, operation, and care of household equipment. 2 single and 1 double periods a week; 3 credits.

Home Economics 243. CONSUMER FINANCE

A study of consumer rights and responsibilities, consumer legislation, fundamentals of buymanship, and principles of finance relevant to the contemporary consumer. Economics 202 recommended. 3 periods a week; 3 credits.

Home Economics 304. HISTORY OF COSTUME

A lecture course dealing with the history of costume. (Open to students not majoring in home economics.) 3 periods a week; 3 credits.

Home Economics 306. CHILD DEVELOPMENT

A study of all aspects of a child's growth and development from conception through adolescence with attention to the role of parents and teachers in this process. Observation and participation in the Child Development Laboratory are required. Home Economics 101 or Psychology 131, 132, or 240 recommended, or consent of instructor. 3 single and 1 double periods a week; 4 credits. (Physical Education majors ONLY, 1 single and 1 double periods a week; 2 credits.)

Home Economics 320. FASHION ANALYSIS

In-depth analysis of the fashion movement with emphasis on the history of costume. A study of the designers influencing fashion today. 3 periods a week; 3 credits.

Home Economics 321. FASHION MERCHANDISING FUNDAMENTALS

An investigation of the different aspects of buying apparel and home furnishings for a retail organization. 3 periods a week; 3 credits.

Home Economics 322. CULTURAL AND FUNCTIONAL ASPECTS OF CLOTHING AND TEXTILES

Cultural, psychological, aesthetic, and functional aspects of the selection and use of clothing and textiles with particular emphasis on present-day apparel in America. Prerequisite: 6 credits from any of the following areas: Art, Economics, Psychology or Sociology. 3 periods a week; 3 credits.

Home Economics 324. ADVANCED TEXTILES

Scientific testing of performance properties of textile products, including wearing apparel and household textiles. Prerequisite: Home Economics 128. 2 single and 1 double periods a week; 3 credits.

Home Economics 325. CREATIVE PATTERN REVISION AND CONSTRUCTION

The understanding of the principles of flat pattern design. Experience in varying style features of commercial patterns. Intensive use of fitting and construction techniques in many types of clothing. Prerequisite: Home Economics 127, 128 or consent of instructor. 1 single and 2 double periods a week; 3 credits.

Home Economics 344. CONSUMER ISSUES AND ANSWERS

Designed to acquaint the student with current consumer problems, agencies, and legislation. Information on the wise selection of goods and services available with emphasis on those used by the consumer. (Open only to students NOT majoring in home economics.) 2 single periods a week; 2 credits.

Home Economics 347. HOUSING

A study of housing standards, aesthetic, economic and social factors influencing housing. 2 single and 1 double periods a week; 3 credits.

Home Economics 348. HOME FURNISHINGS

The aesthetic and economic factors influencing the design of room interiors and the selection of furnishings for the home. Background in art principles, textiles, and housing helpful. 2 single and 1 double periods a week; 3 credits.

Home Economics 356. TEACHING VOCATIONAL HOME ECONOMICS

An innovative instructional program to develop teaching-learning procedures in vocational home economics in secondary schools. Emphasis is on effective teacher competencies in classroom planning and management including the humanization of instruction, provision for individual differences, use of appropriate instructional resources, organization of teacher-learning strategies, provision for a favorable psychological climate and evaluation of pupil progress*. Junior status or consent of instructor. 3 periods a week; 3 credits. (*Standards of Quality and Objectives for Public Schools in Virginia, 1974-76.)

Home Economics 357. TEACHING VOCATIONAL HOME ECONOMICS

The role of the home economics teacher in the total school and community, observation and participation in home economics related programs, planning and implementing new programs. Prerequisite: Home Economics 356. 3 periods a week; 3 credits.

Home Economics 401. PARENTING

The study of parent-child relationship with exploration of individual parent roles and various child rearing models. Prerequisite: Home Economics 306 or Psychology 240. 2 single periods a week; 2 credits.

Home Economics 424. TAILORING

A study of custom tailoring methods as applied to coats and suits. Construction of tailored garments. Prerequisite: Home Economics 127, 128 and/or consent of instructor. 1 single and 2 double periods a week; 3 credits.

Home Economics 428. INTERNSHIP IN CLOTHING OR TEXTILE INDUSTRY

Practical experience in an area of clothing or textiles under the supervision of a member of the home economics faculty and an industry representative. Experience will be selected according to the type of industry and needs of the student. Must have consent of instructor. 8 credits.

Home Economics 430. EXPERIMENTAL FOODS

Scientific principles related to the structure and behavior of foods. Prerequisite: Chemistry 205 or consent of instructor. 2 single and a three-hour lab periods a week; 3 credits.

Home Economics 431. QUANTITY FOOD SERVICE

Experience in quantity meal service including menu planning, work planning and food preparation. Consideration is given to the equipment, storage, facilities and safety controls necessary for efficient institutional food service. Prerequisite: Home Economics 134. 2 single and 1 four-hour periods a week; 4 credits.

Home Economics 432. PRESENTATION TECHNIQUES

Selection and use of appropriate aids and the organization of materials for demonstrations and other presentations in home economics subject matter areas. 1 single and 2 double periods a week; 3 credits.

Home Economics 433. COMMUNITY NUTRITION

Study of nutrition problems and programs designed to aid in the solution of these problems. Prerequisite: Home Economics 235. 3 periods a week; 3 credits.

Home Economics 434. DIET THERAPY

The study of the causes and the treatment of nutritionally related diseases. Prerequisite: Home Economics 235. 3 single periods a week; 3 credits.

Home Economics 436. INDEPENDENT INVESTIGATION IN FOOD SCIENCE

Design and execution of an independent laboratory problem in foods. Prerequisites: Chemistry 205, 312. One single and 1 triple periods a week; 2 credits.

Home Economics 441. MANAGEMENT OF THE HOME

Theory of management processes in relation to decision-making, personal and family values, and the specific resources of families. 2 single periods a week; 2 credits.

Home Economics 442. HOME MANAGEMENT RESIDENCE

Application and integration of management principles of family living and operation of a household. Prerequisite: Home Economics 441. Must have completed a minimum of 75 semester hours in college. 4 credits.

Home Economics 446. INTERIOR DECORATING WORKSHOP

Selected projects in furnishing the home, including furniture refinishing, upholstering, slip covering, draperies, and curtains. Additional expenses for materials involved. Prerequisite: Home Economics 127 or consent of instructor. 1 single and 2 double periods a week; 3 credits.

Home Economics 451. CAREER EDUCATION IN HOME ECONOMICS

Students develop competencies in planning, organizing, and implementing occupational home economics education programs. The instructional program includes observation and field experience in schools offering home economics related occupations. Prerequisite: completed or presently enrolled in Home Economics 127, 134, 306, and 356. 2 single and 2 double periods a week; 3 credits.

Home Economics 452. CAREER EDUCATION IN HOME ECONOMICS

Supervised on-the-job work experiences in food services, clothing services, and child care services. Students will adapt work experience to teaching, supervising, and evaluating programs in home economics at the secondary, post secondary, and adult levels. Prerequisite: Home Economics 451. 1 single and 2 double periods a week; 3 credits.

Home Economics 490. SEMINAR

Selected study of seminar topics of concern to women in the world today. The topic for study will be announced each time the course is offered. The course may be repeated by a student for the series of the topics. The course number will increase for students who take subsequent offerings. Open to majors and non-majors. 2 credits.

DIRECTED STUDY IN HOME ECONOMICS

For students qualified to pursue individual study in a specialized area of home economics. Approval of the chairman of the department is required. Offered on demand.

Home Economics 405. The Family and Child Development. 1-4 credits.

Home Economics 425. Clothing and Textiles. 1-4 credits.

Home Economics 435. Food and Nutrition. 1-4 credits.

Home Economics 445. Housing, Furnishings and Equipment. 1-4 credits.

Home Economics 455. Home Economics Education. 1-4 credits.

For Graduates and Advanced Undergraduates

Home Economics 510. THE MODERN FAMILY

A study of the modern family life. Emphasis is placed on the development stages in the life cycles of families. 3 credits.

Home Economics 520. ADVANCED TAILORING

A comparison of custom tailoring and trade methods used in making suits, coats, and costumes. Construction of tailored garments. Permission of instructor required. 3 credits.

Home Economics 522. GARMENT STRUCTURE

Principles of flat pattern and draping as means of shaping fabric to the human figure. Construction projects testing the patterns and draping experiments; one construction project to include tailoring techniques. Prerequisite: Home Economics 325 and/or permission of instructor. 1 single and 2 double periods a week; 3 credits.

Home Economics 523. CONCEPTS OF NEW FASHION STRUCTURES

Concepts and principles of garment structures and designed using recently developed fabrics and finishes. 2 credits.

Home Economics 545. MANAGEMENT IN FAMILY LIVING

Management principles involving the analyzing and solving of managerial responsibilities in family living. 3 credits.

Home Economics 546. COMPETENCY-BASED EDUCATION IN HOME ECONOMICS

The rationale, characteristics and principles of competency-based vocational education as applicable to home economics education are studied. The major emphases are on identifying and improving critical teacher competencies, evaluating and enriching curricular materials, developing or improving instructional strategies as prescribed by the Vocational-Technical Consortium of States structuring and expanding the use of individualized learning modules and improving and expanding techniques for evaluation. 3 credits.

Home Economics 550. PROGRAM PLANNING FOR HOME ECONOMICS EDUCATION

Planning and adapting home economics curriculum to meet the changing needs of society (home, school, community groups). 3 credits.

LATIN (44)

Latin 100. BEGINNING LATIN

Emphasis on learning to read simple Latin along with the elements of Latin grammar. Attention is given to English words derived from Latin and a basic understanding of Roman Civilization. No credit is given to a student with more than two years of secondary school study in the language. 3 periods a week; 3 credits.

Latin 200. BASIC TRANSLATION

A basic course in the techniques of translation for the career-oriented student. Particularly recommended for students in pre-law, pre-medical studies, pre-pharmacy and for students interested in pursuing graduate work. Minimum requirement: two years of high school Latin. 3 periods a week; 3 credits.

LIBRARY SCIENCE (46)

Library Science 280 (English 280). CHILDREN'S LITERATURE

A course designed to assist students preparing to teach in the elementary schools in the selection and evaluation of books and other forms of media appropriate to this age level and in the use of poetry, prose, and other media in the elementary classroom; includes a survey of children's literature. 3 periods a week; 3 credits.

Library Science 281 (English 281). LITERATURE FOR YOUNG ADULTS

A course designed to assist students preparing to teach in the secondary schools in the selection and evaluation of books for this age level, including adult books and classics, as well as other forms of media which might be used appropriately in the secondary classroom. 3 periods a week; 3 credits.

Library Science 301. MEDIA SELECTION

An introduction to the principles and practices of media selection, including a survey of guidelines, review sources, and selection aids and emphasizing the evaluation of school library materials. 3 periods a week; 3 credits.

Library Science 302. LIBRARY REFERENCE MATERIALS

A study of the evaluation and utilization of reference materials, emphasizing those used in school media centers. 3 periods a week; 3 credits.

Library Science 401. ORGANIZATION OF MATERIALS

A study of the procedures and techniques necessary for the acquisition, cataloging and classification of print and non-print materials. 3 periods a week; 3 credits.

Library Science 402. ADMINISTRATION OF LIBRARY MEDIA CENTERS

A survey emphasizing the philosophy and standards for school media centers; with consideration of organizational patterns, facilities, policies, services and procedures essential to the management of print and non-print materials. 3 periods a week; 3 credits.

*Library Science 485 (Education 485).
PRODUCTION OF MEDIA FOR
INSTRUCTION*

A laboratory course involving production techniques of media materials for classroom utilization. 3 credits.

*Library Science 502. CONTEMPORARY
LIBRARY MEDIA CENTER OPERA-
TION AND PRACTICE*

A critical review and study of operations and practical advances in library services. Prerequisite: a previous course in school library administration. 3 periods a week; 3 credits.

MATHEMATICS (48)

*Mathematics 051. BASIC
MATHEMATICS*

An individualized course in basic mathematics. The content will include computational skills in whole numbers, fractions and decimals; percent, ratio, proportion; and topics in basic algebra. Students will be assigned to the course on the basis of score on a diagnostic test. This course does not satisfy general education requirements. Successful completion of the course required before the student will be permitted to take general education mathematics courses required for graduation. Credit for this course cannot be used toward graduation. 3 credits (Pass/Fail).

**Mathematics 111. A COMPUTER
APPROACH TO INTRODUCTORY
COLLEGE MATHEMATICS*

A survey of introductory mathematical topics using the computer. Flow-charting and BASIC will be integral elements of the course. 3 periods a week; 3 credits.

**Mathematics 112. A PROBLEM
SOLVING APPROACH TO
INTRODUCTORY COLLEGE
MATHEMATICS*

A survey of mathematical ideas with applications in non-mathematical fields. Emphasis will be placed on developing those tools necessary to solve specific problems. 3 periods a week; 3 credits.

**Mathematics 113. STATISTICAL
DECISION MAKING*

An elementary statistics course designed to show the student how statistics is used in decision making. Topics include measures of central tendency and variability; elementary probability; the binomial, normal, and Chi-square distributions, correlation and prediction; and hypothesis testing. Special emphasis is placed upon the proper use of statistics and statistical terms which confront the student in real life situations. 3 periods a week; 3 credits.

**Mathematics 114. MATHEMATICS
FOR THE CONSUMER*

An introductory course designed to acquaint the student with the application of mathematics in the life of the consumer. Special attention will be given to the algebraic derivation of formulas, the reduction of real life situations to mathematical models, and the mathematics employed in banking, budgeting, credit, taxes, insurance, installment buying, annuities, stocks, bonds and mortgages. 3 periods a week; 3 credits.

*Mathematics 123, 124. BASIC CON-
CEPTS OF MATHEMATICS FOR
ELEMENTARY TEACHERS*

Basic concepts underlying contemporary arithmetic; emphasis on meaning and understanding; the logic of mathematics; language of sets and relations as applied to structure of number systems; mathematics proofs; fundamental concepts of algebra; percentage; analysis and solution of verbal problems, and graphing of equations and inequalities. This course is required for the B.S. degree in elementary education and is available only to these students. 3 periods a week; 3 credits each semester.

**Mathematics 161, 162. COLLEGE
ALGEBRA AND TRIGONOMETRY*

A unified treatment of the basic ideas of contemporary algebra, trigonometry, and analytics. The aim of the course is to show the nature of mathematics as a logical system. The material is fundamental to any student's training whether he wishes to continue in mathematics, the natural sciences, engineering, or whether his interests lie in the social sciences or economics. Prerequisite: two years of high school algebra or permission of instructor. 3 periods a week; 3 credits each semester.

*Recommended for General Education

**Mathematics 164. PRE-CALCULUS*

A study of the elementary functions necessary for calculus. The algebra of functions and relations, graphs, polynomials, rational functions, inequalities, exponential, logarithmic and trigonometric functions, elementary theory of equations. Prerequisite: two years of high school algebra or permission of instructor. 3 periods a week; 3 credits.

*Mathematics 223. PRE-ALGEBRA FOR
THE ELEMENTARY AND JUNIOR
HIGH (MIDDLE) SCHOOL*

An in-depth study of the intuitive numerical, pre-algebraic, and geometrical concepts normally taught in the middle and junior high school. This course is designed primarily for elementary majors concentrating in mathematics and for those students working toward pre-algebra certification. Prerequisite: Mathematics 123, 124 or consent of instructor. 3 periods a week; 3 credits.

*Mathematics 235. ADVANCED
EUCLIDEAN GEOMETRY*

A study of Euclidean geometry from a more advanced viewpoint. The method and technique of synthetic geometry will be stressed through a study of topics including formal proofs, finite geometries, convexity, geometry of the circle, constructions and the metric system. 3 periods a week; 3 credits.

**Mathematics 261, 262. THE DIFFERENTIAL AND INTEGRAL CALCULUS*
Prerequisite for Mathematics 261: Mathematics 162, 164 or consent of department chairman. Prerequisite for Mathematics 262: successful completion of 261. Students who do not make a "C" or better in 261 should have the consent of the chairman before enrolling in 262. 5 periods a week; 5 credits each semester.

Mathematics 271. APPLIED STATISTICS

A statistics course designed primarily for students majoring in Business, Psychology, Education, Social Science, Natural Sciences, and Health, Physical Education & Recreation. Topics include simple analysis of variance and covariance, two-way analysis of variance, randomized block design, linear regression, and other statistical techniques. Prerequisite: Mathematics 113 or 162 or consent of instructor. Knowledge of the calculus is not required. Credit will not be given in this course toward the mathematics major. Offered on demand; 3 periods a week; 3 credits.

Mathematics 323. MATHEMATICS METHODS FOR ELEMENTARY TEACHERS

A study of content, materials and methods of teaching mathematics in the elementary school with particular emphasis on student use of materials and learning resources and demonstration of teaching methods. Required for the B.S. in elementary education. Prerequisite: Mathematics 123, 124 or consent of the department chairman. Credit will not be given in this course toward the mathematics major. 3 periods a week; 3 credits.

Mathematics 336. SURVEY OF MODERN GEOMETRIES

A study designed to widen and enlarge the horizons of the students through an examination of some of the geometric developments since the time of Euclid. The characteristics and interrelatedness of various geometries — topological, projective, affine, similarity, Euclidean, non-Euclidean and inversion — will be briefly examined through transformation. 3 periods a week; 3 credits.

Mathematics 342. INTRODUCTION TO MODERN ALGEBRA

Sets and mappings, integers, general algebraic systems, groups, rings, and fields. Prerequisite: Mathematics 262. 3 periods a week; 3 credits.

Mathematics 343. LINEAR ALGEBRA

A basic study of vector spaces, linear transformations, and their relationships to matrix algebra. Also included are determinants, isomorphism theorems, linear functionals, and dual spaces. Prerequisite: Mathematics 262 or consent of department chairman. 3 periods a week; 3 credits.

Mathematics 345. NUMBER THEORY

An introductory course in additive and multiplicative number theory. Included are topics such as: divisibility, prime numbers, congruences, residue systems, linear and quadratic congruences, Diophantine equations, quadratic residues, and number theoretic functions. Prerequisite: Mathematics 342. 3 periods a week; 3 credits.

Mathematics 351. INTRODUCTION TO TOPOLOGY

Topological spaces, continuous mappings, homeomorphisms, compactness, connectedness, metric spaces, and other selected topics in point set topology. 3 periods a week; 3 credits.

Mathematics 361. CALCULUS III

Advanced topics in calculus not considered in Mathematics 261, 262. Prerequisite: Mathematics 262. Students who do not make "C" or better in 262 should have the consent of the chairman before enrolling in this course. 3 periods a week; 3 credits.

Mathematics 371. INTRODUCTION TO PROBABILITY AND STATISTICS

Theory of probability; expected values of random variables; tests of hypotheses; sampling; the central limit theorem; regression analysis. Prerequisite: Mathematics 262. 3 periods a week; 3 credits.

Mathematics 380. HISTORY OF MATHEMATICS

Historical development of mathematics from antiquity to the present with emphasis on the influence of mathematics in the development of civilization. Prerequisite: Mathematics 261 or consent of instructor. Credit will not be given in this course toward the mathematics major. Offered on demand; 3 periods a week; 3 credits.

Mathematics 405. NUMERICAL ANALYSIS

An investigation of numerical techniques of approximation, matrix computations, integration, and differentiation with emphasis on the solution of nonlinear equations, linear systems and differential equations. The course will require use of the computer. Attention will be given to problems of rounding error, conditioning, and stability. Prerequisite: Mathematics 343, Computer Science 205, or equivalent. 3 periods a week; 3 credits.

Mathematics 442. TOPICS IN ALGEBRA

Prerequisite: Mathematics 342, 343. Offered on demand; 3 periods a week; 3 credits.

Mathematics 451. THE TEACHING OF HIGH SCHOOL MATHEMATICS

A study of current practices in high school mathematics teaching with emphasis on principles, techniques, and materials. Required for those planning to teach high school mathematics. 3 periods a week; 3 credits.

Mathematics 452. MATHEMATICS METHODS LABORATORY

Emphasis on individualized instruction, teaching general mathematics and teaching mathematics in the middle school. 1 double period a week; 1 credit.

Mathematics 460. DIFFERENTIAL EQUATIONS

Primarily a study of ordinary differential equations of the first and second order with application to elementary work in mechanics and physics. Prerequisite: Mathematics 361. 3 periods a week; 3 credits.

Mathematics 461. ADVANCED CALCULUS

A theoretical approach to the study of limits, continuity, differentials, derivatives and integrals. Development of the real number system, elementary point set theory, functions of several variables, infinite series, and power series. Prerequisite: Mathematics 361. 3 periods a week; 3 credits.

Mathematics 472. INTRODUCTION TO MATHEMATICAL STATISTICS

Distributions of functions of random variables; moments and moment generating functions; t , F and Chi-square distributions; limiting distributions; interval estimation. Prerequisite: Mathematics 361 and 371. 3 periods a week; 3 credits.

Mathematics 490. DIRECTED STUDY IN MATHEMATICS

Individualized study; recommended only when material cannot be studied through existing course offerings. Must have permission of department chairman. 1-3 credits. May be repeated as 491, etc; no more than 6 credits.

For Graduates and Advanced Undergraduates

Mathematics 524. TEACHING MATHEMATICS IN GRADES K-3

A study of mathematics contained in the K-3 curriculum, how children form mathematical concepts, and the use of manipulative materials in the teaching of K-3 mathematics. Student involvement in activities centered around the mathematical concept of grades K-3 will be emphasized. Offered on demand; 3 credits.

Mathematics 525. TEACHING MATHEMATICS IN GRADES 4-7

A study of mathematics contained in the 4-7 curriculum, how children learn mathematical concepts, and methods and techniques of teaching mathematics in grades 4-7. Student involvement in activities centered around the mathematical concepts of grades 4-7 will be emphasized. Offered on demand; 3 credits.

Mathematics 526. MEASUREMENT AND METRIC EDUCATION IN THE ELEMENTARY SCHOOLS, GRADES K-8

An investigation through hands-on laboratory experiences of measuring in the elementary school, grades K-8. Emphasis will be placed on the measuring process in general, on developing an intuitive feeling for and an understanding of the metric units normally taught in the elementary school, and on developing teaching skills and activities which can be used by participants in their respective classrooms. 3 credits.

MILITARY SCIENCE (50)

Military Science 101. BASIC MILITARY SCIENCE I

A general introduction to the various interpretations of the causes and nature of conflict as expressed in war, the evolution of armed conflict from the earliest recorded times; the principles of war and their application; and the influence of society; technology, and personal leadership on the conduct of war. Semester offerings concentrate on American military history from colonial times to the close of World War I. 2 credits.

Military Science 102. BASIC MILITARY SCIENCE II

American military history is explored from the end of World War I to the present. Concentration during the last third of the course is on contemporary defense organizations, structures, and societal roles. Students develop the evolution of the modern military establishment in the United States. 2 credits.

(Freshmen and sophomores are encouraged to participate in Physical Education 213 [Advanced Outdoor Skills] after completing Military Science 101 or 102. It is an opportunity for students to participate in an outdoor adventure experience in a classroom and wilderness setting. It provides the student a chance to gain new skills in outdoor living, equipment, ecology and conservation, cross country navigation and travel. It also exposes the student to one of the fastest growing sports in the world, Orienteering.)

Military Science 201. BASIC MILITARY SCIENCE III

Course covers military geography, ie. land forms and their military implications; geopolitical strategic theories; and analyses and use of maps and aerial photographs. Emphasis is on understanding the relationship between land forms and their representation on flat surfaces, such as maps. An introduction is provided into management, organizational, and leadership principles as they are reflected in basic tactical techniques and operations. 2 credits.

Military Science 301. ADVANCED MILITARY SCIENCE I

Academic work is devoted to theories of instruction and communication, to include selection of method of presentation, preparation, audience evaluation, presentation of material, audio-visual media techniques, and evaluation of audience learning. Instructional techniques are primarily seminar and conference with some lecture. Emphasis is on student participation and demonstration. Seminars on the significance of world events are integrated into course content. Each student delivers short periods of instruction for peer discussion. 2 credits.

Military Science 302. ADVANCED MILITARY SCIENCE II

Instructional methods are primarily the case study technique and seminars. Academic work is devoted to group interactions and the role of the leader. Emphasis is on the theories of leadership styles, counseling techniques, motivating forces as they apply to individuals and groups, and the effects of external factors. Students evaluate management techniques in various organizational patterns. The latter portion of the course is devoted to examination of the branches of the Army and their roles and functions, particularly as reflected in the organizational and management principles and variations embodied in their structures and operations. Basic tactical and communications techniques are evaluated against the management principles developed from the examination. 1 credit.

Military Science 303. ADVANCED MILITARY SCIENCE III

Academic work is devoted to examination of current world events and their implications for U.S. national security and/or for world military affairs. Emphasis is on actual or potential conflict control methods in consideration of international systems. Instructional technique employed is conference and seminar with inter-disciplinary evaluations encouraged. Laboratory period is a concentrated, comprehensive, practical application of management and organizational principles; students plan in detail and conduct a two-day field trip for all students enrolled in all courses. 2 credits.

Military Science 304. ADVANCED MILITARY SCIENCE IV

Several subcourses are included. In one, emphasis is found in Army personnel and logistic systems. Students employ problem solving techniques in applying principles previously learned and evolving solutions. The 12-hour subcourse on military law is presented by a qualified lawyer, normally a practicing attorney who is also a Reserve Officer in the Judge Advocate General's Corps. Emphasis is on an understanding of the philosophy of military law and its relationship to civil law in American society. Rights, duties, and obligations of military personnel in national and international contexts are covered as they pertain to the Uniform Code of Military Justice, the Hague Conventions of 1907, and the Geneva Conventions of 1949. Student research and discussion is encouraged. The last subcourse covers the application of organizational, management, and leadership principles in more advanced tactical settings. Conference, role playing, and problem solving instructional methods are employed. 1 credit.

Military Science 305. ROTC ADVANCED CAMP SUMMER PRACTICUM

Intensive leadership application with individual and group experiences. Student is exposed to constant leadership situations requiring decision making under physical and mental stress conditions. Prerequisite: Military Science 303. 3 credits.

MUSIC (52)

THEORY

Music 111. BASIC MUSICIANSHIP

An introductory course in music reading through singing and the use of harmonic and rhythmic instruments. Class activities focus on programs of music for playgrounds, parks, hospitals, camps, and nursing homes. Recommended for Therapeutic Recreation majors only. 3 periods a week; 3 credits.

Music 115, 116. THEORY OF MUSIC Theory, harmony, written and keyboard; 2 periods a week; 2 credits each semester.

Music 117, 118. SIGHTSINGING AND DICTATION

Ear training through sightsinging and dictation. 2 periods a week; 2 credits each semester.

Music 212. KEYBOARD FUNDAMENTALS

Required piano for music majors who do not major in piano. Study and practice in basic keyboard techniques, sightreading and major and minor scales. Open only to music majors or minors. 2 periods a week; 1 credit.

Music 213. PIANO ACCOMPANYING Study and practical application of accompanying for other students. Required of keyboard majors. 2 periods a week; 1 credit.

Music 215, 216. THEORY OF MUSIC A continuation of 115, 116 which is prerequisite. 2 periods a week; 2 credits each semester.

Music 217, 218. SIGHTSINGING AND DICTATION

A continuation of 117, 118 which is prerequisite. 2 periods a week; 1 credit each semester.

Music 297, 497. COMPOSITION

Instruction in techniques of composing music. Prerequisite: Music 115, 117 and consent of instructor. One class period and one private lesson a week; 1 credit. May be repeated for credit.

Music 315. CONDUCTING

Technique of the baton; score reading; rehearsal procedures; vocal and instrumental conducting. 2 periods a week; 2 credits.

Music 316. ADVANCED CONDUCTING

Continuation of Music 315 which is prerequisite. 2 periods a week; 2 credits.

Music 327. FORM AND ANALYSIS

Harmonic and formal analysis of compositions of each period. Prerequisite: Music 216, 218. 3 periods a week; 3 credits.

Music 413. COUNTERPOINT

Strict and free counterpoint; motivic development; invertible counterpoint. Prerequisite: Music 216, 218, 228. Offered on demand; 2 periods a week; 2 credits.

APPRECIATION, HISTORY AND LITERATURE

***Music 121, 122 and 321, 322. GUIDED LISTENING**

Prior to music events within the Longwood Music Department, there will be a preview lecture which will explain the composition(s) to be performed in the concert. Students will attend the lecture and the performance. 2 periods a week; 1 credit each semester.

***Music 123. THE APPRECIATION OF MUSIC**

Study for the understanding of the forms, styles, and periods of the music usually heard in performance. 3 periods a week; 3 credits.

***Music 125, 126. MUSIC IN WESTERN CULTURE**

Survey of the major periods of music with examples of the composition of principal composers in each period; the relation of music to other aspects of history and the culture of western civilization. 3 periods a week; 3 credits each semester.

***Music 127. MUSIC LITERATURE** Materials and elements of music; The Romantic Period. 1 period a week; 1 credit each semester.

***Music 128. MUSIC LITERATURE** Review of 127; The Classic Period. 1 period a week; 1 credit.

***Music 223, 224. CONCERT HOUR** Directed listening to selected masterpieces of music, biographical study of the composers. 2 periods a week; 3 credits each semester.

***Music 227. MUSIC LITERATURE** Review of Materials of Music, The Romantic Period, The Classic Period. Antiquity through the Baroque Period. 1 period a week; 1 credit.

***Music 228. MUSIC LITERATURE** Music in the Twentieth Century. 1 period a week; 1 credit.

***Music 231. MUSIC OF THE RENAISSANCE AND BAROQUE PERIODS** Study of the forms, styles, and trends of the music from the Renaissance and Baroque periods, biography. 3 periods a week; 3 credits.

*Recommended for General Education

***Music 232. MUSIC OF THE CLASSIC AND ROMANTIC PERIODS**

Study of the forms, styles, and trends of the music from the Classic and Romantic periods, biography. 3 periods a week; 3 credits.

***Music 233. MUSIC OF THE TWENTIETH CENTURY**

Study of the forms, styles, and trends of the music of the twentieth century, biography. 3 periods a week; 3 credits.

***Music 234. MUSIC OF THE THEATRE**

Study of opera, operetta incidental music. 3 periods a week; 3 credits.

***Music 235. MUSIC OF THE CHURCH**

Study of the development of music in the church from Gregorian chant to the present. 3 periods a week; 3 credits.

***Music 236. MUSIC AND THE ARTS**

A study of the elements of music and their relationship to literature and the visual arts. 3 periods a week; 3 credits.

***Music 237. JAZZ, FOLK, ROCK, AND BROADWAY MUSICALS**

A survey and comparison of the styles, characteristics, composers, and performers of folk, jazz, rock and Broadway music. 3 periods a week; 3 credits.

***Music 331, 332. SURVEY OF MUSIC LITERATURE**

A survey of music literature. Directed listening with the use of available scores; analysis of significant compositions from the major periods of music development. 3 periods a week; 3 credits each semester.

Music 431, 432. HISTORY OF MUSIC

The history of music of western civilization, with examples. Open to non-music majors only with permission of instructor. 3 periods a week; 3 credits each semester.

Music 434. ORGAN LITERATURE

A study of the literature of the organ through performance and listening. Required of organ concentrators. 2 periods a week; 2 credits.

Music 435. PIANO LITERATURE

A study of the literature of the piano-forte through performance and listening. Required of piano concentrators. 2 periods a week; 2 credits.

Music 436. VOICE LITERATURE AND PEDAGOGY

A study of the literature and the teaching of voice; principles of voice teaching and laboratory work with beginning voice students. Required of voice concentrators. 2 periods a week; 2 credits.

MUSIC EDUCATION

Applied Music, Elective, Class. In addition to achieving a grade 3-4 technique in performance, a study of transposition of wind instruments, simple arrangements, special problems and conducting for advanced students (sophomores). 2 periods a week; 1 credit each semester. *Music 167, 168.* Brass.

Music 191, 192. Woodwinds.

Applied Music, Elective, Class. One small class instruction each week; 1 credit each semester.

Music 171, 172. Strings.

Music 181, 182; 281, 282; 381, 382; 481, 482. Voice.

Music 189, 190. Percussion.

Music 340. MUSIC IN THE CLASSROOM

Music for students preparing to teach in elementary schools. Study of music fundamentals and literature, and the development of music skills through singing, conducting, and use of auto-harp, electronic keyboards, rhythm instruments and appropriate series and record sets. Practical application and discussion of these skills, fundamentals, and literature as they relate to their use in the classroom. (Replaces Music 242, 342) 3 periods a week; 3 credits.

Music 341. CLASSROOM MUSIC AND MATERIALS

Designed to explore in depth goals and philosophy of elementary music education with emphasis upon teaching technique and materials as well as a continuation of developing musical skills needed for teaching. Required for certification in the elementary education interdisciplinary track. 3 periods a week; 3 credits.

Music 343. MUSIC TEACHING AND SUPERVISION IN THE ELEMENTARY SCHOOL

Study of music education from early childhood through primary and lower elementary school levels; materials, procedures, philosophy. Open only to music majors, education majors and others with consent of the department chairman. 3 periods a week; 3 credits.

*Recommended for General Education

Music 344. MUSIC IN THE MIDDLE AND JUNIOR HIGH SCHOOL

Philosophy, procedures, materials, emphasis on music in the middle school; adaptation of the program to the open school and individualized or group instruction. Open only to music education majors and others with consent of department chairman. 2 periods a week; 2 credits.

Music 348. INSTRUMENTAL MUSIC IN THE SCHOOLS

Study of all the band and orchestral instruments. Embouchure and technical development; rehearsal techniques; fundamentals of marching; materials. 2 periods a week; 2 credits.

Music 349. MARCHING BAND FUNDAMENTALS

Marching band fundamentals class for instrumental majors who plan to teach on secondary music level. Involves class-work, observation at neighboring high schools during pre-game and half-time shows, and writing marching shows to be appropriately coordinated with music. Taken concurrently with Music 348. 1 period a week; 1 credit.

Music 445. TEACHING PIANO

Techniques and materials of teaching piano individually and in groups. Observation and teaching of demonstration groups. 2 periods a week; 2 credits.

APPLIED MUSIC

Opportunity is offered all students of the College, on a space available basis, for cultural development through the study of the piano, harpsichord, organ, voice, guitar, or orchestral or band instruments, either through private instruction or in small classes (with faculty load permitting). Students may enter at any stage of development. Students majoring in music must attain minimum standards of performance proficiencies, as determined by the department, at the end of their sophomore year.

Music 169, 170; 269, 270; 369, 370; 469, 470. GROUP PIANO

Piano for non-music majors. Study of piano composition techniques, sight-reading, and theory. Class taught in electronic piano lab. 2 periods a week; 2 credits.

Applied Music, Secondary. One half-hour individual lesson or equivalent each week; 1 credit each semester.

Music 153, 154; 253, 254; 353, 354; 453, 454. Organ.

Music 157, 158; 257, 258; 357, 358; 457, 458. Harpsichord.

Music 161, 162; 261, 262; 361, 362; 461, 462. Percussion.

Music 163, 164; 263, 264; 363, 364; 463, 464. Piano.

Music 173, 174; 273, 274; 373, 374; 473, 474. Strings.

Music 177, 178; 277, 278; 377, 378; 477, 478. Brass.

Music 183, 184; 283, 284; 383, 384; 483, 484. Voice.

Music 193, 194; 293, 294; 393, 394; 493, 494. Woodwinds.

Applied Music, Concentration. One half-hour individual lesson, one hour group instruction (or equivalent), plus related studio classes and recitals. 2 credits each semester.

Music 155, 156; 255, 256; 355, 356; 455, 456. Organ.

Music 159, 160; 259, 260; 359, 360; 459, 460. Harpsichord.

Music 165, 166; 265, 266; 365, 366; 465, 466. Piano.

Music 175, 176; 275, 276; 375, 376; 475, 476. Strings.

Music 179, 180; 279, 280; 379, 380; 479, 480. Percussion.

Music 185, 186; 285, 286; 385, 386; 485, 486. Voice.

Music 187, 188; 287, 288; 387, 388; 487, 488. Brass.

Music 195, 196; 295, 296; 395, 396; 495, 496. Woodwinds.

ENSEMBLES — Ensembles are open to all students who sing or play an orchestra or band instrument. The following require an audition with the conductor: Concert Choir, Camerata Singers, and instrumental ensembles. Formal programs are presented on and off the campus.

Ensembles. Two periods a week; 1 credit each semester. May be repeated for credit.

Music 202, 203; 402, 403. Jazz Ensemble, Instrumental Chamber Music Ensemble.

Music 205, 206; 405, 406. Concert Choir, SSA.

Music 207, 208; 407, 408. Camerata Singers, SATB.

Music 209, 210; 409, 410. Concert Band.

For Graduates and Advanced Undergraduates

Music 521. SYMPHONIC LITERATURE

Music 531. MUSIC FOR CHILDREN

Music 532. MUSIC IN THE HIGH SCHOOL

Music 542. MUSIC FOR EARLY CHILDHOOD

PHILOSOPHY (54)

Students who wish to major in Philosophy may now take courses leading toward a B.A. degree in Philosophy. This bachelor's degree, effective in the 1981-82 academic year, will consist of 30 hours. Seven courses will be required, three elective. New courses will be added to the present curriculum.

A minor in philosophy is offered by the philosophy faculty of the Department of English and Philosophy. Twenty-one semester hours are required in this program. The central core, composed of 5 courses (15 hours), is designed to give the student exposure to the standard problems of philosophy, especially ethics, together with skill in logic and a broad background in the history of western philosophy.

Philosophy 200. INTRODUCTION TO PHILOSOPHY

Critical examination of basic problems of philosophy with attention to the development of a system of beliefs. Modern and contemporary readings. 3 periods a week; 3 credits.

Philosophy 215. HISTORY OF WESTERN PHILOSOPHY: ANCIENT AND MEDIEVAL

A survey of the development of European thought from its early Greek origins to the Renaissance. 3 periods a week; 3 credits.

Philosophy 216. HISTORY OF WESTERN PHILOSOPHY: MODERN AND CONTEMPORARY

A survey of the development of European thought from the Renaissance to the present. 3 periods a week; 3 credits.

Philosophy 300. LOGIC

The fundamentals of deduction and induction which aid the student in developing habits of valid thinking and in understanding the scientific method. 3 periods a week; 3 credits.

Philosophy 305. ETHICS

A critical examination of normative ethical principles and of how they may be employed to resolve current moral problems. Modern and contemporary readings. 3 periods a week; 3 credits.

Philosophy 320. AMERICAN THOUGHT

A survey of the development of American philosophy from its colonial beginnings to the present. 3 periods a week; 3 credits.

Philosophy 350. AESTHETICS

A study of theories of art and beauty, including the relation between beauty and the arts, the function and value of the arts in culture, and standards for criticism and judgments of beauty. 3 periods a week; 3 credits.

Philosophy 355. PHILOSOPHY OF MIND

A study of such leading theories as dualistic interactionism, behaviorism and materialism, which concern the nature of the person, self-knowledge, the relation to the mental and the physical and human action. Emphasis on theories of the self or person and on criteria for the evaluation thereof. Classical, modern and contemporary sources. 3 periods a week; 3 credits.

Philosophy 360. PHILOSOPHY OF RELIGION

A critical examination of certain problems in religion, including the nature of religion, grounds for belief and disbelief in God, the varieties of religious experience and immortality. Classical, modern and contemporary sources. 3 periods a week; 3 credits.

Philosophy 365. PHILOSOPHY OF SCIENCE

An examination of the interrelation of science and culture in early, modern and contemporary times from the perspective of basic philosophical questions. 3 periods a week; 3 credits.

Philosophy 490. INDEPENDENT STUDY

A directed reading and/or research program on a topic in philosophy selected by the student and approved by the director. 3 credits.

PHYSICAL EDUCATION (56)

Numerals after the name of the activity indicate the level of proficiency: I—Beginner; II—Intermediate; III—Advanced.

Physical Education 101. AEROBIC FITNESS AND WEIGHT CONTROL

A course designed to develop an understanding of aerobics (cardiovascular exercises) and the relationship of aerobics to physical fitness and weight control. 3 periods a week; 1 credit.

Physical Education 102. ADVANCED AEROBICS

An activity course for students who already participate in cardiovascular exercise on a regular basis (ie, jogging 2 miles or more). 2 periods a week; 1 credit.

Physical Education 104, 105, 106, 107, 108, 109, 110, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124. SEMESTER ACTIVITY COURSES

Three periods a week; 1 credit.

Physical Education 104. Fencing I-II.

Physical Education 105. Gymnastics I-II.

Physical Education 106. Modern Dance I, II, III.

Physical Education 107. Tennis I-II.

Physical Education 108. Golf I-II.

Physical Education 109. Lacrosse I.

Physical Education 110. Swimming: Non-Swimmers, Beginners, Intermediate, Synchronized.

Physical Education 111. Seasonal Activity Courses: students signing up for seasonal activity classes must take one class each half-semester and are not permitted to take two half-semester courses in one half-semester. Registration for both half-semesters must be completed during regular registration sessions at the beginning of each semester.

Physical Education 112. Archery I-II.

Physical Education 113. Camping Skills.

Physical Education 114. Bowling.

Physical Education 115. Equitation I-II.
Offered 2 double periods a week; 8 weeks.

Physical Education 116. Gymnastics Judging.

Physical Education 117. Yoga.

Physical Education 118. Ballet.

Physical Education 119. Social and Recreational Dances.

Physical Education 120. Volleyball I-II.

Physical Education 121. Jazz.

Physical Education 122. Soccer.

Physical Education 123. Wrestling.

Physical Education 124. Weight Training.

Physical Education 130, 131, 132, 133, 134. BASIC TECHNIQUES

Required of all physical education majors; skill and theory of activities basic to the physical education and recreation programs. 3 periods a week; 1 credit.

Physical Education 130. Field Hockey, Women.

Physical Education 131. Golf.

Physical Education 132. Archery/Badminton.

Physical Education 133. Wrestling/ Soccer, Men.

Physical Education 134. Basketball.

Physical Education 163, 167, 169, 171, 173, 175, 177, 179, 181, 183, 185, 187, (I, II, III, IV). VARSITY SPORTS PARTICIPATION

Open to all students who demonstrate competence in a sport. Tryouts are required. A student may earn a total of 8 credits in a varsity sport participation, but may not earn more than 4 credits in the same sport. Evaluation: grade and/or Pass/Fail. 4 periods a week; 1 credit.

Physical Education 163. Intercollegiate Basketball, Women.

Physical Education 164. Intercollegiate Basketball, Men.

Physical Education 167. Intercollegiate Field Hockey, Women.

Physical Education 169. Intercollegiate Golf, Women.

Physical Education 170. Intercollegiate Golf, Men.

Physical Education 171. Intercollegiate Gymnastics, Women.

Physical Education 173. Intercollegiate Lacrosse, Women.

Physical Education 177. Intercollegiate Tennis, Women.

Physical Education 179. Intercollegiate Volleyball, Women.

Physical Education 181. Intercollegiate Soccer, Men.

Physical Education 183. Intercollegiate Baseball, Men.

Physical Education 185. Intercollegiate Riding, Women & Men.

Physical Education 187. Intercollegiate Wrestling, Men.

Physical Education 200. SPORTS SAFETY AND ATHLETIC TRAINING

The study of accident prevention control in physical education, athletics and recreation. 3 periods a week; 3 credits.

Physical Education 206, I, II, III, IV. ADVANCED TECHNIQUES IN MODERN DANCE

Techniques work in dance for the advanced student. Prerequisite: previous study in dance and permission of instructor. 3 periods a week; 2 credits.

Physical Education 210. ADVANCED LIFE SAVING

Training in personal safety and rescue skills. American National Red Cross Certificate given. 3 periods a week; 2 credits.

Physical Education 211. WATER SAFETY INSTRUCTOR

Methods of teaching and skill analysis of swimming and life saving skills. Certified American National Red Cross Water Safety Instructor's Certificate given. Prerequisite: current Advanced Life Saving Certificate. 3 periods a week; 2 credits.

Physical Education 213. ADVANCED OUTDOOR SKILLS

Opportunity for students to participate in an outdoor adventure experience in a classroom and wilderness setting. Provides the student a chance to gain new skills in outdoor living, equipment, ecology and conservation, cross country, navigation and travel. Exposes the student to one of the fastest growing sports in the world, orienteering. 2 periods a week; 2 credits.

Physical Education 225. MOTOR LEARNING

Basic concepts underlying motor learning, including neurophysical bases, feedback, perception and other factors influencing rate and amount of motor learning. 3 periods a week; 3 credits.

Physical Education 230, 231, 232, 233, 237. BASIC TECHNIQUES

Required of all physical education majors. Skill and theory of activities basic to physical education and recreational programs. 3 periods a week; 1 credit.

Physical Education 230. Lacrosse/ Fencing.

Physical Education 231. Volleyball.

Physical Education 232. Gymnastics.

Prerequisite: Physical Education 105.

Physical Education 233. Social and Recreational Dance.

Physical Education 237. Baseball/Football, Men.

Physical Education 261. PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL

Physical education principles for the elementary school. 3 periods a week; 3 credits.

Physical Education 301. PRACTICUM I-IV IN ATHLETIC TRAINING

Designed to channel the informal learning experiences the student athletic trainer gains as part of the normal on-the-job training room duties into a formalized learning experience. Student pursues in-depth study in one aspect of sports medicine. Student receives practical experience in organization and administration as a Head or Assistant Student Athletic Trainer assigned to an athletic team. Students will be responsible for staffing assignments, athletic training, equipment, taping, etc. for their team. May be elected maximum of 4 semesters during the junior/senior years. Prerequisites: Physical Education 200, Health Education 336, Biology 206, 207, permission of instructor. 1 credit.

Physical Education 302. MEDICAL ASPECTS OF SPORT

Designed for the advanced student of sports medicine contemplating career in the field. Concentrates on the areas of current problems and issues in sports medicine and the administration of athletic training programs. Prerequisites: Health Education 336, Physical Education 200, Biology 206, 207, and permission of instructor. 3 periods a week; 3 credits.

Physical Education 303, 305, 307, 308. PRINCIPLES AND TECHNIQUES OF OFFICIATING

The study of current roles and practices in the techniques of officiating. 3 periods a week; 1 credit.

Physical Education 303. Field Hockey.

Physical Education 305. Gymnastics.

Physical Education 307. Volleyball

Physical Education 308. Basketball.

Physical Education 304. THEORY AND ANALYSIS OF ELEMENTARY SCHOOL PHYSICAL EDUCATION
Analysis, theory, and evaluation of all types of activities adaptable to elementary school physical education programs. 3 periods a week; 3 credits.

Physical Education 306. THE ATHLETIC PARTICIPANT

Through the development of a frame of reference for athletics, the athlete is studied psychologically and sociologically. Special emphasis is placed upon research that has been done in regard to the athletic participant at all levels of competition. 3 periods a week; 3 credits.

Physical Education 310. PERCEPTUAL MOTOR PROGRAMS

A course designed to study the growth and development of children, to examine the theories of perceptual motor programs, to analyze screening and evaluate techniques, to participate in and conduct activities for children and to formulate an action program. This course will be required for the elementary physical education emphasis. 2 lecture, 2 lab periods a week; 3 credits.

Physical Education 322. DANCE IN EDUCATION

Theory and practice in methods of teaching dance activities. 3 periods a week; 2 credits.

Physical Education 330, 331. BASIC TECHNIQUES

Required of all physical education majors. Skill and theory of activities basic to the physical education and recreational programs. 3 periods a week; 1 credit.

Physical Education 330. Track & Field.

Physical Education 331. Tennis.

Physical Education 338. PHYSIOLOGY OF EXERCISE

Lecture and laboratory experiences in the physiological responses of the body to physical activity in everyday life and in sports. 3 periods a week; 3 credits.

Physical Education 339. KINESIOLOGY

Scientific bases of physical education activities, methods of analysis, and application of scientific principles in specific physical education activities. 3 periods a week; 3 credits.

Physical Education 340. ADAPTED, DEVELOPMENTAL AND CORRECTIVE PHYSICAL EDUCATION
Analysis of teaching body mechanics in a general program of physical education, study and analysis of an adapted program within the physical education program, and development of procedures for a corrective physical education program. 3 periods a week; 3 credits.

Physical Education 355. CONDUCT OF EXTRACURRICULAR ACTIVITIES IN PHYSICAL EDUCATION

Practice and theory in organization and administration of intramurals, extramurals and club activities. 3 periods a week; 3 credits.

Physical Education 357 (Dramatic Arts 357). DANCE COMPOSITION

Theory and practice in composition of solo and small group dances. The course is designed for those students interested in advanced training in dance. Prerequisite: permission of instructor. NOTE: This course is an elective and will meet the general education requirements in physical education or dramatic arts, but not both. This will not satisfy state certification requirements for teaching dramatic arts. 3 periods a week; 3 credits.

Physical Education 358 (Dramatic Arts 358). THEORY AND PRACTICE IN COMPOSITION AND CHOREOGRAPHIC PROBLEMS

The course is designed for those students interested in advanced training in dance. Prerequisite: permission of instructor. NOTE: This course is elective and will meet the general education requirements in physical education or dramatic arts, but not both. This will not satisfy state certification requirements for teaching dramatic arts. 4 periods a week; 3 credits.

Physical Education 400. COACHING INTERSCHOLASTIC AND INTER-COLLEGIATE ATHLETICS

A seminar course to include the following topics: the role of athletics in the educational setting; the organization and administration of athletics on the interscholastic and intercollegiate levels; the role of the teacher/coach, coach/teacher; and training factors for different sports. 3 periods a week; 3 credits.

*Physical Education 404. SEMINAR
IN ELEMENTARY SCHOOL
PHYSICAL EDUCATION*

A seminar course designed to study current literature relevant to children and elementary school physical education and to direct developmental activities for children with supervision. 5 periods a week; 3 credits.

*Physical Education 405. PRACTICUM
IN TEACHING AND/OR COACHING*

Supervised teaching experiences and/or coaching experiences. Credit and hours to be arranged (maximum of 3 credits).

*Physical Education 428. SURVEY OF
CONTEMPORARY DANCE*

Comparative study and analysis of dance through film and literature. 3 periods a week; 2 credits.

*Physical Education 461, 462, 463.
SPECIAL PROJECTS IN PHYSICAL
EDUCATION*

Independent study and research projects for qualified students. (May be taken as 461 or 462 for 1 and 2 credits respectively.) 3 credits.

PHYSICS (61)

**Physics 101. GENERAL PHYSICS*

An introduction to the basic concepts of mechanics and heat. 3 single and 1 double periods a week; 4 credits.

Physics 102. GENERAL PHYSICS

A study of sound, light, electricity and magnetism. Prerequisite: Physics 101. 3 single and 1 double periods a week; 4 credits.

Physics 201. UNIVERSITY PHYSICS

Similar to Physics 101, but with the calculus used throughout. Prerequisite or corequisite: Mathematics 261, 262. Offered on demand; 3 single and 1 double periods a week; 4 credits.

*Physics 321. ATOMIC AND NUCLEAR
PHYSICS I*

A survey of modern developments in electron, atomic, and nuclear physics. Prerequisite or corequisite: Mathematics 261. 3 single and 1 three-hour periods a week; 4 credits.

*Physics 322. ATOMIC AND NUCLEAR
PHYSICS II*

A continuation of Physics 321. Prerequisite or corequisite: Mathematics 261. 3 single and 1 three-hour periods a week; 4 credits.

Physics 324. THERMODYNAMICS

A study of thermal properties of matter; phenomena involved in flow of heat and performance of work. Kinetic theory and statistical mechanics are included. Prerequisite or corequisite: Mathematics 261. Offered on demand; 3 single periods a week; 3 credits.

Physics 326. LIGHT

A study of the nature and behavior of light and other electromagnetic radiation. Prerequisite: Mathematics 261. 3 single and 1 three-hour periods a week; 4 credits.

Physics 331. A.C. AND D.C. CIRCUITS

A review of basic electricity and magnetism. A.C. and D.C. circuits, transients, resonance, electrical and magnetic measurements. Prerequisite or corequisite: Mathematics 261. 3 single and 1 three-hour periods a week; 4 credits.

*Physics 332. CLASSICAL ELECTRICITY
AND MAGNETISM*

Electric and magnetic fields, potentials, resistance, inductance, and capacitance, polarization, magnetic materials, Maxwell's equations. Prerequisite: Mathematics 262. Offered on demand; 4 single periods a week; 4 credits.

Physics 341. ELECTRONICS

A survey of basic electronic circuits and their use in radio, television and other applications; introduction to transistors. Prerequisite: Physics 101, 102 or 201, 202. 3 single and 1 three-hour periods a week; 4 credits.

Physics 352. MECHANICS

A mathematical study of the physical laws pertaining to matter and motion. Prerequisite: Mathematics 262. Prerequisite or corequisite: Mathematics 460. 4 single periods a week; 4 credits.

*Physics 462. SPECIAL PROJECTS
IN PHYSICS*

Students will carry out research projects under individual supervision of an instructor. The nature of the project will depend on the interest and needs of the student. Consent of instructor and approval of department chairman is prerequisite for enrollment. May be repeated as Physics 463, 464. 2, 3, or 4 credits.

PSYCHOLOGY (63)

*Psychology 131. INTRODUCTION
TO PSYCHOLOGY AS A SOCIAL
SCIENCE*

Personal and interpersonal aspects of behavior. Topics will include individual differences, developmental psychology, personality, abnormal psychology and social psychology. 3 credits.

*Psychology 132. INTRODUCTION
TO PSYCHOLOGY AS A NATURAL
SCIENCE*

Topics will include the organic basis of behavior, heredity, maturation, sensory and perceptual processes, motivation, learning and thinking. 3 credits.

*Psychology 134. QUANTITATIVE
METHODS IN PSYCHOLOGY*

An introduction to the principles and techniques of experimental design and statistical analysis. 3 periods a week; 3 credits.

*Psychology 222. HUMAN BEHAVIOR
THEORY*

An in-depth theoretical study of behavioral, psychoanalytical, and humanistic approaches to human behavior. Prerequisite: Psychology 131 or 132. 3 periods a week; 3 credits.

*Psychology 240. DEVELOPMENTAL
PSYCHOLOGY I—CHILD PSYCHOLOGY*

A consideration of the development of physical traits, intelligence, social behavior, emotional behavior, personality and adjustment from conception through pre-adolescence. Required of all majors in Elementary Education. (Not open to Psychology majors.) 3 credits.

Psychology 250. DEVELOPMENTAL PSYCHOLOGY II—ADOLESCENT PSYCHOLOGY AND LEARNING

A review of the developmental psychology of adolescence and an application of the principles of learning theory as they relate to education. Required of both Elementary Education and Secondary majors in the teacher education program. (Not open to Psychology majors.) 3 credits.

Psychology 331 (Sociology 331). SOCIAL PSYCHOLOGY

Open to juniors and seniors only. Prerequisite: six hours of sociology or six hours of psychology. 3 periods a week; 3 credits.

Psychology 353. THE PSYCHOLOGY OF ADJUSTMENT

A dynamic and experimental approach to the study of personality. Prerequisite: 3 hours of psychology. 3 periods a week; 3 credits.

Psychology 356. ABNORMAL PSYCHOLOGY

Description and explanation of the psychological aspects of behavior disorders including abnormalities of sensory and perceptual processes, memory emotion and the phenomena and interpretation of psychoses and neuroses. 3 periods a week; 3 credits.

Psychology 359. INDUSTRIAL PSYCHOLOGY

The facts, theories and techniques of psychology in relation to problems of employee selection and training, performance and appraisal, worker motivation and morale, industrial leadership and safety, human engineering, and space psychology. 3 periods a week; 3 credits.

Psychology 361-362. EXPERIMENTAL PSYCHOLOGY

A detailed examination of the major problems of psychology and the experimental procedures available for their investigation. Prerequisite: Psychology 134. 2 periods lecture and one double period lab each week; 3 credits each semester.

Psychology 420-421. PSYCHOLOGICAL TESTS AND MEASUREMENTS

A survey of methods, techniques, and instruments for measuring individual differences in behavior with special emphasis on the Binet and Wechsler Scales. 2 periods lecture and 1 double period lab per week; 3 credits each semester.

Psychology 422. HUMAN LEARNING AND MEMORY

A detailed examination of theories and research dealing with verbal learning, concept learning, short-term and long-term memory stores, cognitive encoding and search strategies, and transfer. 3 periods a week; 3 credits.

Psychology 423. PHYSIOLOGICAL PSYCHOLOGY

A study of the physiological correlates of behavior including the sensory receptors, central brain mechanisms, and coordination of the motor systems. 3 periods a week; 3 credits.

Psychology 424. ANIMAL LEARNING AND MOTIVATION

An examination of the classic and contemporary literature in animal learning and motivation. Special emphasis is given to the evolutionary development of motivated states of behavior and its significance for the survival of a species. 3 periods a week; 3 credits.

Psychology 457. HISTORY AND SYSTEMS OF PSYCHOLOGY

The development of psychology from ancient to modern times. Consideration of important men and significant ideas contributing to current systematic psychology. Prerequisite: 6 hours of psychology. 3 periods a week; 3 credits.

Psychology 461. SEMINAR IN ADVANCED GENERAL PSYCHOLOGY

A seminar for the senior psychology major, designed to integrate his knowledge of specific fields into a comprehensive view of psychology, and to review the current research in various areas of psychology. (Open only to seniors.) 3 periods a week; 3 credits.

Psychology 490. INDEPENDENT RESEARCH IN PSYCHOLOGY

A directed practicum and/or research project administered by qualified specialists in the department. 3-6 credits.

For Graduates and Advanced Undergraduates

Advanced juniors and seniors may enroll in any of the following courses for undergraduate credit.

Psychology 521. HUMAN GROWTH AND DEVELOPMENT

The principles and processes of human development covering the entire life span. Major aspects of development (social, physical, mental, emotional, etc.) are traced through the various stages of development, and their interaction in organized behavior examined. 3 credits.

Psychology 523. THEORIES OF PERSONALITY AND ADJUSTMENT

An examination of the major theories of personality and adjustment including an introduction to psycho-pathology. 3 credits.

Psychology 555. MENTAL TESTS

A course in the construction and interpretation of standardized tests. Intelligence, aptitude and achievement tests are discussed in terms of their validity, reliability, norms and scaling. (For non-psychology majors.) 3 credits.

RECREATION (66)

Recreation 205. SOCIAL RECREATION

Survey of a multitude of recreation program activities in a lab setting. Students will be instructed in leadership skills in program areas which will include recreational dance, drama, music, arts and crafts, and social recreation. 2 hours a week; 1 credit.

Recreation 210. INTRODUCTION TO THERAPEUTIC RECREATION

History; philosophy; rationale for service; professional development; analysis of symptomology and causes inherent to various special populations; therapeutic settings; and employment opportunities. 3 credits.

Recreation 213. INTRODUCTION TO LEISURE SERVICES DELIVERY

The nature, extent and significance of recreation; planning, design and operation of recreational areas and facilities; overview of activity programs and staff selection and maintenance. 3 periods a week; 3 credits.

Recreation 237. CAMP COUNSELING

Theory, planning, organizing and practical application inherent in camping; role and leadership characteristics; camping skills, activity, and current trends. 3 credits.

FRESHMAN EXPERIENCE

All therapeutic recreation majors will be required, prior to their junior internship, to have completed an approved field experience of 120 hours in a student selected and department approved recreation setting.

Recreation 300. PRE-INTERNSHIP SEMINAR

Lectures, discussion, and lab experiences to prepare majors for their internships. To be included will be agency and college relationship, resume writing, professional code of ethics, interviewing techniques, and placement opportunities. 1 period a week; 1 credit.

Two of the following three courses are required.

Recreation 301. RECREATION FOR THE MENTALLY IMPAIRED

In-depth study of all aspects of mental retardation and mental illness as related to therapeutic recreation services. Characteristics and classification of these populations to be discussed along with activity adaptations, treatment approaches, legislation, issues and trends; evaluation instruments, mainstreaming and normalization. 3 periods a week; 3 credits.

Recreation 302. CAMPING FOR SPECIAL POPULATIONS

Philosophy, essential principles, methods, techniques and resources related to administration and programming in the camp setting for special populations. Included will be objectives, organization, counseling techniques and evaluation. 3 periods a week; 3 credits.

Recreation 303. RECREATION FOR THE PHYSICALLY DISABLED

In-depth study of all aspects of physical disability as related to therapeutic recreation settings; includes services, implications of disability, self-help skills, wheelchair activities, rule modifications, legislation and adaptive techniques. 3 periods a week; 3 credits.

Recreation 308. THERAPEUTIC RECREATION IN THE MEDICAL SETTING

A survey of medical facilities, services and administrative organizational procedures with a strong emphasis being placed on medical terminology. 3 periods a week; 3 credits.

Recreation 361. DEVELOPMENTAL AND ADAPTIVE ACTIVITIES

A study of activities and their adaptation for children in special populations. 3 periods a week; 3 credits.

Recreation 370. PROGRAM AND DEVELOPMENT OF RECREATION

Study and practice of planning, conducting and implementing activity programs; rationale for activity development; practical field-work experience; and recreation counseling. 3 credits.

Recreation 380. JUNIOR INTERNSHIP

An 8-10 week supervised recreation fieldwork experience will be required during the student's junior year. 8-10 weeks; 8 credits.

Recreation 404. LEISURE AND THE AGING

Analysis and study of the phase of aging, with reference to psychomotor, affective and cognitive changes; introduction to the theories of aging and how they relate to the lifestyle of this population; activity adaptation and program design, leisure counseling, and issues and trends. Prerequisite: Recreation 210 and 308 (or consent of instructor). 3 periods a week; 3 credits.

Recreation 406. POST-INTERNSHIP SEMINAR

A series of presentations and discussions concerning internship experience in a variety of therapeutic recreation settings. 2 periods a week; 1 credit.

Recreation 410. SUPERVISION AND ADMINISTRATION OF RECREATION

Legal aspects of community recreation; municipal and departmental organizations; supervision techniques; financing and budget; evaluation; and public relations in recreation. 3 periods a week; 3 credits.

Recreation 437. LEADERSHIP AND GROUP DYNAMICS

Anatomy of leadership; group characteristics; group development; communication techniques; practical techniques; practical applications; and problem solving. 3 credits.

Recreation 461, 462, 463. SPECIAL PROJECTS IN THERAPEUTIC RECREATION

Qualified students will pursue independent study projects and/or directed research under supervision of an instructor. Nature of study will depend on interests and needs of the students. 1, 2, or 3 credits.

Recreation 499. SENIOR INTERNSHIP

A 16-week educational work experience during the senior year designed to provide maximum opportunities for the student majoring in therapeutic recreation to participate in selected professional laboratory experiences. 16 credits.

RELIGIOUS STUDIES (68)

Religious Studies 240. COMPARATIVE RELIGIONS—FAR EASTERN

A survey of the religions of India, China, Japan and Southeast Asia. This course will begin with a brief discussion of primitive and extinct religions in order to establish a base from which to discuss the development of religions in the Far East. Most of the course will be historically ordered although the final portion of the course will deal with religious topics comparatively (e.g. the meaning and nature of salvation). 3 periods a week; 3 credits.

Religious Studies 241. COMPARATIVE RELIGIONS—NEAR EASTERN, MIDDLE EASTERN, AND WESTERN
A survey of the religions originating in these areas with primary consideration of Judaism, Christianity and Islam. The course will begin with a brief consideration of what religion is and aims to do and will conclude with a comparative discussion of religious issues as found in the religions studied historically. 3 periods a week; 3 credits.

Religious Studies 245. INTRODUCTION TO THE OLD TESTAMENT
A study of the Old Testament with special attention to the historical background of Israel's faith; the distinctive contributions of particular books; the relevance of such approaches to the material as literary analysis; tradition, history and form criticism; and the development of major religious themes. 3 periods a week; 3 credits.

Religious Studies 250. THEMES IN BIBLICAL LITERATURE
An introductory study of selected recurring themes in the history of salvation in both the Old and New Testaments. An "historicist perspective" on these themes is developed. Readings in the Bible, in biblical criticism, in modern and contemporary theology and in literature on being a Christian. 3 periods a week; 3 credits.

Religious Studies 400. INDEPENDENT STUDY
A directed reading and/or research program on a topic or thinker in religious studies selected by the student and approved by the director. 3 credits.

SCIENCE (70)

Science 352. SCIENCE FOR SECONDARY TEACHERS
A study of materials and methods for teaching the physical and/or biological sciences at the junior and senior high school level. Course content will be designed to meet the individual needs of each student. Recommended prior to student teaching. 3 periods a week; 3 credits.

Science 362. SCIENCE FOR ELEMENTARY TEACHERS
A study of materials and methods of teaching science in the primary and upper elementary grades with emphasis on student use of laboratory materials and techniques. Required for the B.S. degree in elementary education. Prerequisites: Biology 102, 103, Science 101 and 102. 1 single and 2 double periods a week; 3 credits.

SOCIAL SCIENCE (72)

Social Science 400. TEACHING HISTORY AND THE SOCIAL SCIENCES IN THE SECONDARY SCHOOL
This course is recommended as an elective for all students majoring in history or the social sciences, who plan to teach. 3 periods a week; 3 credits.

SOCIAL WORK (74)

Social Work 101. INTRODUCTION TO THE HUMAN SERVICES
An introduction to the broad range of Human Service professions and the nature and structure of Human Service organizations (schools, hospitals, welfare, corrections, mental health, environment, etc.) which deliver client services. Emphasis is placed on the common elements underlying "helping" actions of a wide variety of human services. Students preparing for a career in any Human Service area will be provided an orientation to systematic analysis of Human Service professions and systems. 3 periods a week; 3 credits.

Social Work 102. SOCIAL WELFARE AND THE SOCIAL WORK PROFESSION

A study of the dynamic adjustment process between the American social welfare system and its societal, value, and historical context. Emphasis is placed on providing a conceptual, theoretical, and philosophical basis for analyzing institutional welfare and its relation to individual and social needs, social justice, and a pluralistic and humanistic society. The emergence, current status, and future of professional social work practice is explored. Prerequisite: Social Work 101. 3 periods a week; 3 credits.

Social Work 240. SOCIAL POLICY AND ISSUES IN SOCIAL WELFARE
Models of policy analysis and formulation are reviewed and the role of both social work and government are investigated. The characteristics of poverty, racism, sexism, power, and community are studied in relation to social welfare policy, social work practice, social planning, and programs and services. Prerequisite: Social Work 102. 3 periods a week; 3 credits.

Social Work 280. HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT I
This course presents a knowledge and theory base integrated around a general systems approach. Emphasis is placed on a multi-level perspective of human behavior in the areas of personality development, self-concept formation, community and organizational systems, group processes, personal change dynamics, family systems, and life cycles. Concurrent focus is placed on practice relevancy of the theory base. Prerequisite: Sociology 101 and Psychology 222. 3 periods a week; 3 credits.

Social Work 281. HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT II
A continuing exploration of theoretical contributions to the design and application of intervention strategies. The role of interpersonal influence is studied within the context of effective communication for planned change and effective skills are practiced. Prerequisite: Social Work 280. 3 periods a week; 3 credits.

Social Work 309. HUMAN SEXUAL ADJUSTMENT

Socio-cultural influences on gender identity and sexual behavior will be analyzed and issues regarding sexual expression and sexual dysfunctioning will be explored. Methods of dealing with sexual adjustment difficulties at both the individual and community levels are presented including human services resources. Prerequisite: 3 hours of Sociology and Psychology. 3 periods a week; 3 credits.

Social Work 310. MINORITY EXPERINECES: HUMAN DEVELOPMENT IN HOSTILE ENVIRONMENTS

With a special emphasis on the Black experience, the course will examine the impact of the conditions of institutionalized racism, sexism, and prejudice on the development of personality, copability, and self concept. Survival strategies, individual strengths and societal treatment of minorities will be analyzed in order to further develop an understanding in the student for effective practitioner-client relationships. Prerequisite: Sociology 332. 3 periods a week; 3 credits.

Social Work 320. SOCIAL WORK RESEARCH AND EVALUATION DESIGN

The role of scientific inquiry in the continuing development of knowledge and practice skill bases, measures of accountability, needs assessment, and evaluation design is presented. Students conduct in-agency research and assessments and study the impact of applied scientific techniques on the design and delivery of professional practice. Prerequisite: Mathematics 113. 3 periods a week; 3 credits.

Social Work 335. JUNIOR INTERVENTIVE MEANS LAB

Laboratory experiences enabling the development and application of practice skills for direct service. Emphasis is on levels of problems, systematic assessment and problem solving, and uniqueness of various interventive means. Corequisite: Social Work 336. 2 periods a week; 1 credit.

Social Work 336. INTERVENTIVE MEANS IN SOCIAL WORK

A generic approach to social work practice with the goal of achieving social justice and the fulfillment of human potential and needs. Students are helped to analyze problem situations, to select goals and strategies of intervention and worker roles, to develop skill in use of self and other resources and to assess effectiveness of intervention and services. Prerequisite: Social Work 281. Corequisite: Social Work 335. 3 periods a week; 3 credits.

Social Work 337. CHILD WELFARE

Major concepts of child welfare are presented and trends in relevant policy, services and practice skills related to supportive, supplemental and substitutive programs are analyzed. Prerequisite: Social Work 240 or permission of instructor. 3 periods a week; 3 credits.

Social Work 339. JUNIOR FIELD INSTRUCTION IN SOCIAL WORK

Throughout the semester, a direct practice experience under the supervision of a field instructor. Application and continued growth of knowledge base, social work practice skills, and values is assessed. Termination of the field instruction will include a formal "Junior Evaluation" involving staff and student in an assessment of the student's candidacy for admission into the Social Work Program. Prerequisite: Social Work 336 and "C" average overall and in major courses. 5 credits.

Social Work 340. JUNIOR INTEGRATIVE SEMINAR

Seminar format provides a supplementary opportunity for generalizing principles and intervention approaches beyond the particular Social Work 339 experience. Focus is on the systematic application of generalist practice principles, both traditional and innovative, in the formation of an integrated professional practice approach. Corequisite: Social Work 339. 2 periods a week; 1 credit.

Social Work 341. HUMAN SERVICE DELIVERY SYSTEMS

Introduction to applied systems theory: social work administration, management process and service delivery design in both private and public sectors. Prerequisite: Social Work 339 or permission of instructor. 2 credits.

Social Work 350 (Economics 350). THE ECONOMICS OF WELFARE

An economic analysis of poverty, unemployment and the problems of education and housing for low-income families together with a critical examination of the economics of medicine, social security, urban renewal and other government welfare programs. Prerequisite: Economics 232. 3 periods a week; 3 credits.

Social Work 400. FIELD INSTRUCTION

Educationally directed student learning in selected settings. Students learn by participating in the delivery of social services to individuals, small groups, families, organizations, and/or communities. At least 40 hours per week in an agency for 15 weeks. Prerequisite: Social Work 427 and "C" average overall and in major courses. Corequisite: Social Work 401, 404 and 407. 12 credits.

Social Work 401. INTEGRATIVE SEMINAR

A concurrent seminar providing an opportunity for generalizing intervention skills and experience beyond the student's particular field instruction experience. 3 sessions (30 hours) at regional locations; 2 credits.

Social Work 403. SOCIAL PATHOLOGIES AND SOCIAL WORK

"Pathologies" of society are examined as issues with implications for individuals, families and communities. The role of social workers in facilitating adjustment processes involving human sexuality, migration and mental health are some of the topical issues of focus. 15 hours; 1 credit.

Social Work 404. SOCIAL WELFARE ADMINISTRATION

An analysis of skills and understanding essential for the translation of human service program goals into organizational structures. Emphasis is on organizational concepts and theories, administrative philosophies and actual analyses of structural change and operation of field experience agencies. Prerequisite: Social Work 400. 15 hours; 1 credit.

Social Work 405. WORKING WITH SPECIAL POPULATIONS

An analysis of what constitutes a "special" population and relevant techniques of service delivery. Development of unique methods of working with urban and rural populations, death, run-aways, corrections, low-income families and alternate life-styles are explored. 15 hours; 1 credit.

Social Work 406. AGING AND SOCIETY

An introduction to the psychological, social and economic realities of aging with an emphasis on perceiving the elderly as a minority group. Theories of the aging process will be analyzed in conjunction with intervention techniques. 15 hours; 1 credit.

Social Work 407. LAW AND THE SOCIAL WORKER

Seminar on law as a resource in social work practice, with emphasis on the areas where the two professions frequently meet—such as public welfare, juvenile court, family law, adoptions, etc. Examines attitudes of law and social work toward each other. 15 hours. 1 credit.

Social Work 408. MANPOWER DEVELOPMENT AND PROFESSIONAL ENTRY

The changing nature of work is investigated regarding efforts to research and coordinate employment, processes of professionalization, career patterns, strategies which impact the application of human resources, and minority groups and work. Each student will identify career goals and explore professional career opportunities. (Non-social work majors encouraged.) Prerequisite: permission of instructor. 2 periods a week; 2 credits.

Social Work 409. GENERAL SYSTEMS THEORY

A unique and individualized seminar course designed to provide an in-depth view of general systems theory and its interdisciplinary implications. Emphasis is placed on the integrative and systematic ability of systems theory for providing participating students unique insights into their major while enhancing versatility, application, and perspective. (Non-social work majors encouraged.) Prerequisite: permission of instructor. 2 periods a week; 2 credits.

Social Work 415. INTER-PROFESSIONAL COMMUNICATION: TECHNIQUES FOR THE SURVIVAL OF INTERVENTIVE STRATEGIES

This unique course deals with the realities of effective professional role performance with peer professionals. The relationship between agency structure and functioning and the style, format, timing, and design of inter-professional transactions and helping patterns is studied. Special attention is given to the utilization of a scientific practice base for determining effective courses of professional action. Prerequisite: Social Work 336. 3 periods a week; 3 credits.

Social Work 420. TOPICAL SEMINAR IN SOCIAL WORK

A series of topical lectures, presentations and discussions concerning areas of current concern to practitioners in a variety of welfare settings. Emphasis is placed on practice related material and the involvement of practitioners from local agencies is encouraged. Hours to be arranged; 1-3 credits.

Social Work 427. ADVANCED INTERVENTIVE MEANS

Continued development of generic skills and values at the advanced level for professional practice. Emphasis is placed on integration of knowledge into techniques and strategies for human service delivery. Prerequisite: Social Work 339. 3 periods a week; 3 credits.

SOCIOLOGY (76)

***Sociology 101. INTRODUCTORY SOCIOLOGY**

The study of principles and comparisons in society and culture as these relate to social groups and institutions. Offered every semester; 3 credits.

***Sociology 102. CONTEMPORARY SOCIAL PROBLEMS**

An introduction to the sociology of deviant behavior and social disorganization. Prerequisite: Sociology 101. Offered fall and spring semesters of even numbered years; 3 credits.

Sociology 220. SELF IN SOCIETY

The interplay of societal forces and self. Attention is given to such topics as: self in society and society in self; collective behavior; mass movements; public opinion, propaganda and the mass media; group processes; and social psychological aspects of social structure. Prerequisite: Sociology 101 or Anthropology 101, or permission of instructor. Offered fall semester of even numbered years; 3 credits.

Sociology 222. SOCIALIZATION: SOCIOLOGY OF CHILD DEVELOPMENT

An examination of the fundamental theories of socialization. Emphasis will be on studies of early childhood and adolescent socialization into roles. Acquisition of an identity as it relates to social psychological variables will be studied. Prerequisite: Sociology 101. Offered spring semester of even numbered years; 3 credits.

Sociology 245. BASIC STATISTICS

A study of the basic statistical techniques and procedures appropriate for dealing with problems in sociology and anthropology. Prerequisite: Sociology 101 or permission of instructor. Offered fall semester of odd numbered years; 3 credits.

Sociology 270. SOCIAL STRATIFICATION

Analysis of social mobility, class, status and power. Offered fall semester 1980; 3 credits.

Sociology 310. COMPLEX ORGANIZATIONS

Survey of the processes and structures through which complex organizations are created, maintained, modified and changed in a social environment. Attention is given to such topics as the interactional rationality, coordination and control in complex organizations, and the creation, change, and functions of written rules in organized social action. Prerequisite: Sociology 101 or Anthropology 101, or permission of instructor. Offered on demand; 3 credits.

Sociology 320. SOCIOLOGY OF EDUCATION

The school system and classroom are analyzed with the emphasis on basic sociological concepts. Social class differences, the status of teachers, education as socializing agent and education as a vehicle of mobility are among the topics taken into consideration. Prerequisite: Sociology 101. Offered on demand; 3 credits.

Sociology 321 (Anthropology 321). THE SOCIOLOGY OF RELIGION

An investigation of the social aspects of religion, its forms of organization, and its relationships to other institutions. Religious commitment as a social psychological phenomenon is given considerable attention. Prerequisite: 6 hours of sociology or anthropology or permission of instructor. Offered spring semester of even numbered years; 3 credits.

Sociology 331 (Psychology 331). SOCIAL PSYCHOLOGY

Open to juniors and seniors only. Prerequisite: 6 hours of sociology and 6 hours of psychology. 3 credits.

Sociology 332. MINORITY GROUPS: RACE, RELIGION, SEX, AND MAJORITY AND MINORITY RELATIONSHIPS

A study of the sociological principles related to the understanding of majority-minority relationships and to the problems of those who are assigned minority status due to their race, religion, sex, sexual preference, or cultural heritage. Prerequisite: Sociology 101. Offered fall semester only; 3 periods a week; 3 credits.

Sociology 335. JUVENILE DELINQUENCY

The exploration of the diversity of delinquent behavior, the process of becoming delinquent, the importance of legislation, the law enforcement apparatus, the courts and juvenile correctional facilities in the development of delinquent identities. Limited to juniors and seniors except by permission of instructor. Prerequisite: Sociology 101. Offered fall semester only; 3 credits.

Sociology 345. MODERN SOCIAL RESEARCH

The logical basis for conceptualization and research in sociology. Research design, concept formation, data collection, data reduction, data analysis, and data interpretation will be studied. Emphasis will be placed on the application of methods to various aspects of research projects undertaken by members of the class. Prerequisite: 6 hours of sociology or permission of instructor. Offered spring semester of even numbered years; 3 credits.

Sociology 360. URBAN SOCIOLOGY

The nature of urban social organization. Includes ecological factors in urban development, internal organization of metropolitan areas, urban lifestyles and problems, urban planning practices. Prerequisite: Sociology 101. Offered fall semester of odd numbered years; 3 credits.

Sociology 370. MEDICAL SOCIOLOGY

Study of sociocultural factors that influence health, health care and illness in addition to an analysis of health care services, hospital organization, roles and role relationships in the health care setting and the processes of socialization of health care personnel and patients. Prerequisite: Sociology 101 or Anthropology 101, or permission of instructor. Offered spring semester of even numbered years; 3 credits.

Sociology 375. CRIMINOLOGY

Analysis of the nature, extent and distribution of crime, emphasizing theories of and research on causation, prevention, treatment, and other public policy efforts. Offered spring semester; 3 credits.

Sociology 376. SOCIOLOGY OF LAW

Relationship between law and social structure; study of processes of law creation, interpretation, enforcement and modification, including police, judicial and jury behavior as well as an analysis of the legal profession itself. Offered spring semester of odd numbered years; 3 credits.

Sociology 381, 382, 383. TOPICAL SEMINARS IN SOCIOLOGY

Advanced seminars for sociology majors and non-majors interested in sociology. These seminars are designed to permit small groups of qualified students to pursue specialized topics in sociology such as social gerontology, sociology of dying, collective behavior and social movements, sociology of sport and leisure, small groups, sociology of mass communication, and symbolic interactionism. Prerequisite: 6 hours of sociology to include Sociology 101, or permission of instructor. Offered as interest and need arises. 1, 2, or 3 credits.

Collective Behavior and Social Movements—study of social behavior that is guided by nontraditional norms and is less structured than more traditional behaviors; crowds, cults, riots, rebellions, social change movements, and revolutions.

Small Groups—Sociological appreciation of units composed of two or more members engaged in meaningful contact such as families, work groups, therapeutic associations, athletic teams, and peer groupings.

Social Gerontology—A sociological analysis of attitudes regarding aging and the status and role of the elderly in different societies.

Sociology of Dying—A cross-cultural analysis of attitudes toward death and dying.

Sociology of Mass Communication—Exploration of the structure of media industries (press, radio, television, and advertising), their impact on audiences, mass culture and specific public issues such as violence and politics.

Sociology of Sport and Leisure—Analysis of sport and leisure as changing social institutions emphasizing sex and ethnic status, collegiate sport, professionalization, law and shifting social values.

Sociology 390. SOCIOLOGICAL THEORY

An examination of the major theoretical positions in current sociology. Prerequisite: 6 hours of sociology or permission of instructor. Offered spring semester of odd numbered years.

Sociology 441. MARRIAGE AND THE FAMILY

A study of the structure and function of the family; factors in the choice of a marriage partner; and the necessary adjustments in marriage and family life. Limited to juniors and seniors except by permission of instructor. Offered every semester; 3 credits.

Sociology 443 (Anthropology 443). THE COMMUNITY

Review of theories of community and analysis of representative community studies. Limited to juniors and seniors except by permission of instructor. Prerequisite: 6 hours of sociology or anthropology. Offered spring semester of even numbered years.

Sociology 490. DIRECTED STUDY IN SOCIOLOGY

Recommended when the student desires to pursue a specialized topic in-depth. Must have permission of the departmental chairman and the instructor directing the course. 3 credits per semester; no more than 6 credits may be earned in Sociology 490.

SPANISH (78)

Spanish 100. ELEMENTARY SPANISH

A study of fundamentals. Grammar and oral comprehension. Emphasis on pronunciation. No credit is given to a student with more than two years of secondary school study in the language. 3 class periods and 2 drill sessions per week; 4 credits.

Spanish 110. INTERMEDIATE SPANISH

Review of grammar. Emphasis on the development of skill in reading. Prerequisite: Spanish 100 or two years of high school Spanish. Does not fulfill the general education requirement in literature. 3 class periods and one drill session per week; 3 credits.

Spanish 210. SPANISH CONVERSATION

Review of vocabulary and syntax. Emphasis on developing conversational skills through dialogues and discussions. Prerequisite: Spanish 110 or advanced placement. Does not fulfill the general education requirement in literature. 3 class periods and one drill session per week; 3 credits.

Spanish 230. HISPANIC CIVILIZATION AND CULTURE

A study of Hispanic civilization and culture which emphasizes the history and art of Spain. 3 periods a week; 3 credits.

Spanish 241, 242. A SURVEY OF SPANISH LITERATURE

Prerequisite: Spanish 100, 110 or advanced placement. This course is prerequisite to other literature courses. 3 periods a week; 3 credits each semester.

Spanish 331, 332. A SURVEY OF SPANISH AMERICAN LITERATURE

A study of representative authors from the colonial period to the present. 3 periods a week; 3 credits each semester.

Spanish 400. METHODS OF TEACHING SPANISH

Recommended to be taken in the junior year. 3 periods a week; 3 credits.

Spanish 401. ADVANCED GRAMMAR AND COMPOSITION

A review course; limited to juniors and seniors. Recommended to be taken before student teaching. 3 periods a week; 3 credits.

Spanish 402. ADVANCED CONVERSATION AND PHONETICS

Theory and practice in the spoken language. Valid techniques and their uses in attaining a mastery of oral Spanish. 3 periods a week; 3 credits.

Spanish 431. SPANISH AMERICAN NOVEL

A study of representative authors of Spanish America. 3 periods a week; 3 credits.

Spanish 441. GOLDEN AGE DRAMA AND POETRY

A study of representative poets and dramatists of the Sixteenth and Seventeenth centuries. 3 periods a week; 3 credits each semester.

Spanish 442. GOLDEN AGE PROSE
Representative genres and authors of the Sixteenth and Seventeenth centuries. 3 periods a week; 3 credits.

Spanish 461. NINETEENTH CENTURY THEATRE AND POETRY

Three periods a week; 3 credits.

Spanish 462. NINETEENTH CENTURY NOVEL

Three periods a week; 3 credits.

Spanish 471. TWENTIETH CENTURY LITERATURE: THE GENERATION OF '98 AND MODERNISM

Three periods a week; 3 credits.

Spanish 472. TWENTIETH CENTURY LITERATURE: THE GENERATION OF '27 AND CONTEMPORARY LITERARY TRENDS

Three periods a week; 3 credits.

Spanish 491, 492. SPECIAL TOPICS IN LITERATURE AND CIVILIZATION

The topics will rotate on a regular basis from semester to semester. Prerequisite: senior standing or permission of instructor. 3 periods a week; 3 credits each semester.

Spanish 521. DIRECTED STUDY

Individualized study. Recommended only when material cannot be studied in scheduled courses. By permission of department chairman. No more than 6 credits may be earned in 521. 3 credits.

SPEECH (80)

Speech 100. VOICE AND DICTION

Study of the vocal mechanism and voice production. Analysis of the sounds of American English through phonetic study. Improvement of personal speech skills through reading exercises. 3 periods a week; 3 credits.

Speech 101. FUNDAMENTALS OF PUBLIC SPEECH

An introductory study of effective and responsible speaking. Provisions will be made for practical application. 3 periods a week; 3 credits.

Speech 111. BROADCASTING

Principles and procedures of radio station organization and operation. Analysis of the Communications Act and the "Rules and Regulations" of the Federal Communication Commission. The course will provide the information and skills necessary to operate and manage an F.C.C. licensed radio station. 3 credits.

Speech 200. HUMAN COMMUNICATIONS

A course designed to introduce the student to the field of communications, its history, scope, theory, and types, including verbal and non-verbal communication, the mass media, and propaganda techniques. 3 periods a week; 3 credits.

Speech 201. DISCUSSION AND DEBATE

Study and analysis of public discussion and debate concerning current national and international issues, discussion types and methods; argumentation. Parliamentary procedures and conduct of the democratic meeting are examined. 3 periods a week; 3 credits.

Speech 300. PRACTICUM IN SPEECH THERAPY

Directed field work with primary and upper elementary pupils who have speech and hearing difficulties. 2 credits.

Speech 304. INTRODUCTION TO SPEECH PATHOLOGY

An overview of the field of Speech Pathology with emphasis upon the causes and treatment of voice and speech disorders. Prerequisite: Speech 100. 3 periods a week; 3 credits.

Speech 307. PHONETICS

A study of the phonetic structure of the English language, its dialects, and derivations, application of the International Phonetic Alphabet and a review of the literature in experimental phonetics. 3 periods a week; 3 credits.

Speech 311. RADIO AND TELEVISION

Radio skills with studio practice, elementary television, function of radio and television media in American culture. 3 periods a week; 3 credits.

Speech 312. FORENSICS

A course designed to acquaint students with forensic procedures, specifically intra- and extramural oratorical and forensic activities. 3 periods a week; 3 credits.

Speech 403. ORAL INTERPRETATION

Development of skill in oral reading; the expression and discipline of voice, thought, emotional responses and bodily action; techniques of presentation as adapted to varying forms of literature. Practice in reading prose, poetry, and drama designed to increase literary appreciation. 3 periods a week; 3 credits.

Speech 497, 498. DIRECTED STUDY IN SPEECH

A directed reading and/or research program administered by qualified specialists in the department. The student must secure approval of the program director and department chairman prior to registering for this course. 1-3 credits per semester.

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