

VOL XVII
1

CHRISTOPHER NEWPORT COLLEGE 1979-1981



**Christopher
Newport
College**

Catalogue

Vol. XVII No. 1

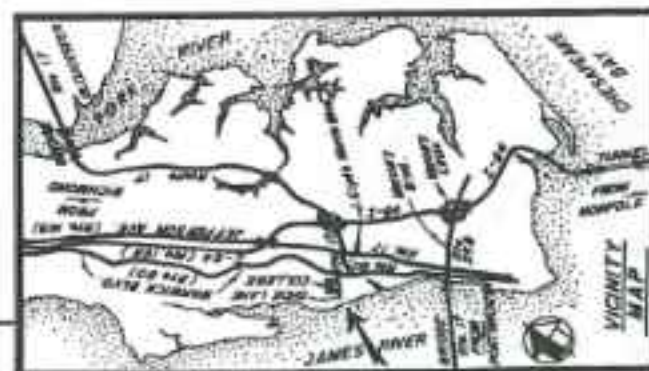
1979-1981

The College reserves the right to make at any time the changes it deems advisable in the offerings, regulations, and fees stated in this catalogue.

Cover design by Larry P. Johnson;
photographs by William H. Polis
and student members of Christopher
Newport Associated Photographers.

CHRISTOPHER NEWPORT
COLLEGE

REUTERS

24 - Student Parking
25 - Staff / Faculty Parking1989 December
Period covered 1979

SCALE:



The eighteen year heritage of Christopher Newport College has been to plan, develop, and implement all of its efforts in light of its primary purpose: to provide optimum learning opportunities for students of a variety of ages, backgrounds and needs.

The student body at the College is not merely one of recent high school graduates but offers instead a rich mixture of young adults learning alongside those who have chosen to continue their education after entering the work force, raising a family, or leaving the military. Two-thirds of those who attend CNC do so during the daytime hours while the remaining third, whose average age is thirty-four, attend evening classes. The opportunities for lifetime learning are available on our campus and will continue to impact our learning structures and our plans for the future.

Christopher Newport is intent upon remaining a cultural apex of the area and will continue to provide outstanding teachers, fine music and stimulating art exhibits.

The Board of Visitors hope that you will share in our sense of community pride and excitement about the College and its future. We are optimistic about the potential of the College to serve well its varied constituents and we look forward to the challenge and promise of an even more productive future.

Harrol A. Brauer, Jr.
Rector, Board of Visitors



I am very pleased to have this opportunity to greet you on the occasion of your expression of interest in Christopher Newport College. During its relatively short eighteen years of existence, Christopher Newport has enjoyed an exciting and remarkable rate of growth.

In 1961, the College opened its doors to 171 students in a public school building in downtown Newport News, Virginia. Today, the campus comprises 75 acres and 8 buildings, and plans are under way for the construction of several new buildings. The College has graduated approximately 2500 students, and the campus accommodates almost 4000.

Christopher Newport College affords a rich learning environment for its students. It offers a comprehensive curriculum in the liberal arts as well as many professional programs usually found at large colleges and universities. The education of the CNC student is enhanced because of a mutually gratifying relationship between the institution and the community, upon whose professional talent the College can and does draw regularly.

Though it offers a variety of programs and course offerings, CNC serves the part-time as well as the full-time student, and though it adheres faithfully to its original mission to serve the community, the College is successful in attracting students from other areas. Its population is comprised of students of all ages, interests, and backgrounds, a characteristic which, in itself, strengthens the educational process.

I am happy to welcome you to Christopher Newport College.

May I wish you a profitable and lasting association with us.

James C. Windsor
President

Table of Contents

College Calendar	1
About the College	3
History	3
Aims and Purposes	3
Accreditation	4
The Campus	4
Future Construction	6
Admission	8
Fees and Expenses	16
Student Life	19
Financial Assistance	23
Continuing Studies	28
Academic Policies and Regulations	29
Requirements for Degrees	37
General Requirements for Graduation	37
Bachelor of Arts and Bachelor of Science Degrees	39
Bachelor of Arts Degree in International Culture and Commerce	40
Bachelor of Science in Information Science	42
Bachelor of Science in Governmental Administration	44
Bachelor of Science in Business Administration	48
Bachelor's Degree in Interdisciplinary Studies	50
Associate in Arts Degree	51
CNC Affiliated Programs	53
Masters in Business Administration (Old Dominion University)	53
Nursing (Old Dominion University)	53
Forestry/ Environmental Management (Duke University)	53
Pre-Engineering (Old Dominion University)	84
Gerontology Program	54
Courses of Instruction	57
Accounting and Finance	57
Anthropology	60
Basic Studies	60
Biology and Environmental Science	61
Chemistry	67
Classical Studies	70
Communications	70
Computer Science	71
Earth Sciences and Geography	74
Economics	76
Education	79
Engineering	84
English	84
Fine and Performing Arts	90
History	100

Humanities	106
Management, Marketing, and Real Estate	107, 108
Mathematics	112
Military Science	117
Modern Foreign Languages and Literatures	119
Philosophy and Religious Studies	127
Physical Education	132
Physics	134
Political Science	137
Psychology	142
Sociology and Social Work	149
Board of Visitors	157
Administrative Officers	158
Faculty	160

COLLEGE CALENDAR 1979-1981

1979

August 21, 22
August 27
August 30
September 3
October 15
October 29

November 19
November 26
November 26-30
December 5

December 7
December 10-15
January 7

1980

January 15-16
January 21
January 24
March 10
March 14
March 24
March 28

April 21-25
May 2
May 5-10
May 18

1980

May 19
June 6

June 9
July 8

June 9
August 7

July 14
August 12

FALL SEMESTER

Registration period
Beginning of classes: 8:00 a.m.
Last day for drop/add; last day for late registration
Labor Day: College closed
Early warning grade reports filed with Registrar
Last day for dropping a class or withdrawing from College without penalty of failing grade
Beginning of Thanksgiving holiday - 10:00 p.m. (Monday)
End of Thanksgiving holiday - 8:00 a.m.
Early registration for spring 1980 semester
Last day for May graduates to file intent to graduate and request waivers of degree requirements affecting May graduation
Last day of classes (Friday)
Final examination period
Commencement

SPRING SEMESTER

Registration period
Beginning of classes: 8:00 a.m.
Last day of drop/add period and late registration
Early warning grade reports filed with Registrar
Beginning of spring recess - 5:00 p.m.
End of spring recess - 8:00 a.m.
Last day for dropping a class or withdrawing from College without penalty of failing grade
Early registration for fall 1980 semester
Last day of classes (Friday)
Final examination period
Commencement

SUMMER

"A" Session Begins
"A" Session Closes

"B" Session Begins
"B" Session Closes

"C" Session Begins
"C" Session Closes

"D" Session Begins
"D" Session Closes

1980

August 19, 20
 August 25
 August 28
 September 1
 October 13
 October 27

November 17-21
 November 24
 December 1
 December 3

December 5
 December 8-13
 January 11

FALL SEMESTER

Registration period
 Beginning of classes: 8:00 a.m.
 Last day for drop/add; last day for late registration
 Labor Day: College closed
 Early warning grade reports filed with Registrar
 Last day for dropping a class or withdrawing from College without penalty of failing grade
 Early registration for Spring 1981 semester
 Beginning of Thanksgiving holiday - 10:00 p.m. (Monday)
 End of Thanksgiving holiday - 8:00 a.m.
 Last day for May graduates to file intent to graduate and request waivers of degree requirements affecting May graduation
 Last day of classes (Friday)
 Final examination period
 Commencement

1981

January 13, 14
 January 19
 January 22
 March 9
 March 13
 March 23
 March 27

April 20-24
 May 1
 May 4-9
 May 17

SPRING SEMESTER

Registration period
 Beginning of classes: 8:00 a.m.
 Last day for drop/add; last day for late registration
 Early warning grade reports filed with Registrar
 Beginning of spring recess - 5:00 p.m.
 End of spring recess - 8:00 a.m.
 Last day for dropping a class or withdrawing from College without penalty of failing grade
 Early registration for Fall 1981 semester
 Last day of classes (Friday)
 Final examination period
 Commencement

1981

May 18
 June 5

June 8
 July 7

June 8
 August 6

July 13
 August 11

SUMMER

"A" Session Begins
 "A" Session Closes
 "B" Session Begins
 "B" Session Closes
 "C" Session Begins
 "C" Session Closes
 "D" Session Begins
 "D" Session Closes

About the College History

Christopher Newport College was established and duly authorized by the General Assembly of Virginia, in its 1960 session, as a branch of the College of William and Mary. The College derives its name from Captain Christopher Newport, the illustrious English mariner who was one of the most important men connected with the permanent settlement of Virginia. It was Christopher Newport who was put in "sole charge and command" of the small squadron of three vessels which made the historic voyage culminating with the landing at Jamestown in 1607. Although established as a two-year College, CNC became a four-year, baccalaureate institution in 1971, and, on July 1, 1977, became completely independent of the College of William and Mary.

The College derives its support from the General Assembly and from the tuition and fees paid by its students. The affairs of the College are directed by the Board of Visitors of Christopher Newport College, appointed by the Governor of Virginia. A president, appointed by the Board of Visitors, is delegated authority over the administration and the courses of instruction at the College.

The College first enrolled 171 students in September 1961, at its initial home, a former public school building in downtown Newport News, provided through the generosity of the City and the School Board. The City of Newport News then purchased the site of the present campus, a 75-acre suburban tract deeded to the Commonwealth of Virginia in 1963. In the decade since the construction of Christopher Newport Hall in 1964, the College has added several other buildings to its campus: two other classroom buildings, a library-administration building, a campus center, a gymnasium, a greenhouse, a library addition, and a service building.

In the early years of the College, enrollment increased dramatically; by the fall of 1976, 3,318 students were enrolled. The Col-

lege currently awards the following degrees: Bachelor of Arts in Economics, Elementary Education, English, Fine and Performing Arts, French, History, Mathematics, Philosophy, Political Science, Psychology, Sociology (with concentrations in Social Work, Research and Program Evaluation, and Criminology), and Spanish; "Bachelor of Arts Degree in International Culture and Commerce"; Bachelor of Science in Biology/Environmental Science, Chemistry, Mathematics, and Psychology; Bachelor of Science in Business Administration with concentrations in Accounting, Economics, Finance, Management, Marketing, Real Estate, and Transportation; Bachelor of Science in Governmental Administration with concentrations in Public Management, Community Planning, Criminal Justice Administration, and Corrections; Bachelor of Science in Information Science; Bachelor of Arts or Bachelor of Science in Interdisciplinary Studies; Bachelor of Science in Nursing in affiliation with Old Dominion University; Associate in Arts in Liberal Arts (being phased out in the next two years); Masters in Business Administration offered by ODU in cooperation with CNC; Masters of Forestry or Environmental Management in cooperation and affiliation with Duke University. The College offers approximately one-third of its classes in the evening, and many degrees are earned by students who attend classes only during evening hours. The growth of the College has brought about corresponding development in academic programs, student services, and administrative organization.

Aims and Purposes

Christopher Newport College is a four-year, comprehensive, urban, coeducational college, offering undergraduate educational programs designed to serve the large metropolitan area of Hampton, Newport News, and several surrounding counties. The student body is non-residential, consisting primarily of men and women who reside in the area but who represent a rich variety of cultural backgrounds. (However, Christopher Newport College is exploring the possibility of resi-

dence facilities on its campus. Potential students interested in living on campus should contact the CNC Office of Admissions for current information. Christopher Newport College is committed to teaching, research, and service, with the emphasis on providing quality instruction. Research is carried on in areas of faculty interest and competence as required by and as a necessary complement to the teaching process. Organized and sponsored research is carried on as it involves the institution's public service relationship to the urban community in which it is located.

The College is committed to a core of liberal arts studies. Building upon these, it also seeks to develop and maintain programs of professional education that respond to student learning interests and manpower requirements.

As part of its general mission, Christopher Newport College is committed to new ways of implementing liberal and professional programs which value the student's learning needs and prior life experiences, and which integrate theoretical knowledge and problem solving. Such programs provide opportunities for self-development and a number of career options to citizens of all ages.

As an urban institution, the College is committed to education as a total community process. This is manifest in several different ways. Christopher Newport serves a primarily local student body; it makes use of the community as an instructional resource, and it draws upon the co-operation and professional talent of those who reside on the Peninsula. In addition, faculty and staff members contribute significantly to the community in areas such as consulting, serving on local and state committees and service organizations, and through the CNC Speakers Bureau, which shares the expertise of faculty members with local civic, church, professional, and special interest organizations.

The College is organized and instruction is provided to take into consideration the life-long learning needs of a largely parttime, mobile student body. It offers programs of equivalency testing and other non-traditional ways of earning academic credit, cooperates with other colleges and local agencies with

diverse missions to expand its learning resources, and offers advising systems and transfer credit policies to meet the needs of the students it serves, many of whom transfer from other institutions.

Handicapped students

The College has embarked on a campaign to remove any physical barriers which discourage or make impossible the attendance of handicapped students. Accessibility to the handicapped person is a major consideration in the planning of additions or new construction on campus.

Christopher Newport College encourages the attendance of handicapped students as well as their involvement in the social and academic life of the College.

Accreditation

Christopher Newport College was given independent accreditation as a four-year, baccalaureate degree-granting institution in November 1971 and was reaccredited in December of 1975 by the Southern Association of Colleges and Schools. Christopher Newport College is also accredited by the Commonwealth of Virginia.

The Campus

Christopher Newport College is centrally located in a suburban area of Newport News, and is easily accessible to residents of the cities of Newport News, Hampton, and surrounding counties. At present, there are seven buildings on the 75-acre campus, most of which have been named in honor of those English mariners and adventurers who significantly shaped the early history of Tidewater Virginia.

Christopher Newport Hall

Serving as captain of the *Susan Constant* and commander of the three small English ships which landed at Jamestown in 1607, Captain Christopher Newport founded and helped govern Jamestown, explored the two rivers which define the Virginia Peninsula, directed the drawing of the first map of the

area, and gave his name to Newport News. Both the College and the first building on the permanent campus were named in his honor. Completed in the fall of 1964, Christopher Newport Hall is a classroom building of 24,160 square feet and houses the departments of computer science, English, history, and geography. The College Bookstore and a lecture hall which seats 224 people are also located in this hall.

Gosnold Hall

Occupied in September 1965, Gosnold Hall contains 42,389 square feet of classroom, office, and laboratory space. It was named in honor of Captain Bartholomew Gosnold, the early navigator and colonizer who served as Captain Newport's vice admiral in command of the *Godspeed* on the Jamestown voyage. Both he and Captain Newport were among the seven men who made up the colony's first council. Gosnold Hall houses the departments of biology and environmental science, economics, management, marketing, and real estate, chemistry, mathematics, philosophy, and physics. Like Christopher Newport Hall, it also contains a large lecture hall seating 224 people.

Ratcliffe Gymnasium

Captain John Ratcliffe commanded the third ship on the Jamestown voyage, the *Discovery*, served as one of the seven members of the first Virginia Council, and was chosen as the second Virginia governor. Ratcliffe Gymnasium was named in his honor. Occupied in the fall of 1967, Ratcliffe Gymnasium is the center of the physical education department and the College's athletic activities, both intercollegiate and intramural. Consisting of 32,979 square feet, the building contains office and classroom space as well as two gymnasiums.

Wingfield Hall

The fifth building on the campus, a classroom structure of 20,090 square feet, was opened in June 1970. It was named in honor of Edward Maria Wingfield. Along with Captains Newport, Gosnold, Ratcliffe, and Smith, Edward Wingfield was named to his Majesty's

Council for the first colony in Virginia at Jamestown. From April to September of 1607, Wingfield served as the first President (or governor) of the colony. Wingfield Hall houses the Counseling Center and the departments of basic studies, classical studies, education, modern foreign languages and literatures, and psychology.

Captain John Smith Library and Administration Building

Completed in the fall of 1967, this building of 32,576 square feet was named in honor of Captain John Smith, the famous adventurer, explorer, and author who was a promoter and organizer of the Virginia Company of London and landed with the colonists in 1607. He explored the Chesapeake Bay area, served on the colonists' first council, and was governor of the colony.

The administration building houses the offices of the President, Vice-Presidents, Academic Deans, Dean of Admissions, Registrar, the Business Office, the Personnel Office, the Director of Development and the Public Information Officer. The faculty mailboxes and one of two campus information desks are also located here.

The Captain John Smith Library contains approximately 95,700 volumes which are cataloged according to the Library of Congress classification scheme. Of this number, approximately 5,100 volumes are reference books, 11,400 are bound volumes of periodicals, 53,400 are circulating books, and 25,800 are microforms. The library receives approximately 620 current periodicals and 26 daily newspapers.

The library building houses books on open shelves. It is completely air-conditioned and includes a reference room, two reading-stack rooms, a listening room, and a browsing area. The library has a seating capacity of 205. A duplicating service in the library enables students to copy pages from reference books and articles from periodicals, as well as personal items.

The addition to the library, scheduled for completion in May 1979, is a two-story structure of 16,000 square feet. It will allow an additional 70,050 volumes to be shelved,

giving the library a total capacity of 118,166 volumes and will have a seating capacity of 201, allowing 406 persons to be seated in the library. Although the addition does include a small amount of service and office space, such as a periodicals bindery, a media office, and a technical repair area, practically all of the addition is scheduled for patron use.

The addition will include the following facilities: a rare books and archives room, an instructional materials center, and a reserve book room. It will also include a much larger media center, which if funds are appropriated, will have specialized facilities for film previewing, equipment repair and storage, preparation of media materials, sound recording booths, and a sophisticated listening system. Plans also call for the installation of video equipment in the media center.

Portions of the existing building are scheduled for renovation concurrent with the construction of the new addition. The circulation area and adjoining offices will be renovated and space will also be provided in this area so that an automated computer system can be added to the library in the future. A new lounge area will be constructed on the former open-air reading deck and the existing media center will be converted to a micrographics area.

Regular Library hours are:

Monday-Thursday	8:00 a.m. to 10:30 p.m.
Friday	8:00 a.m. to 4:45 p.m.
Saturday	9:00 a.m. to 3:00 p.m.
Sunday	1:00 p.m. to 8:00 p.m.

The Campus Center

In the fall of 1973, the Campus Center became the focal point for a wide variety of activities. Contained in the 37,988 square foot building are a recreation area, a cafeteria, a pub, the Office of the Vice-President of Student Affairs, the College Placement Office, student publication and Student Association offices, student meeting rooms, seminar rooms, a photographic darkroom, a 391 seat theatre, and the department of fine and performing arts. The theatre is the home of the

College's developing programs in the performing arts. Included in the theatre wing are a full-thrust stage, an orchestra pit, projection facilities, dressing rooms, rehearsal space, and shop and storage areas. The comprehensive design makes possible a wide variety of drama, concert, and dance performances as well as lecture and film series.

The College Greenhouse

The College greenhouse, completed in 1973, was constructed with funds donated by the City of Newport News. Mike Cazares, then Director of Buildings and Grounds, supervised and actually did much of the construction work himself. The greenhouse portion of the structure contains 500 square feet and was designed according to a similar facility at the Virginia Truck Experimental Station in Norfolk, Virginia. The greenhouse is used as a teaching facility by the Department of Biology and Environmental Science. There are, in addition to the greenhouse portion, a laboratory room and a herbarium.

Service Building

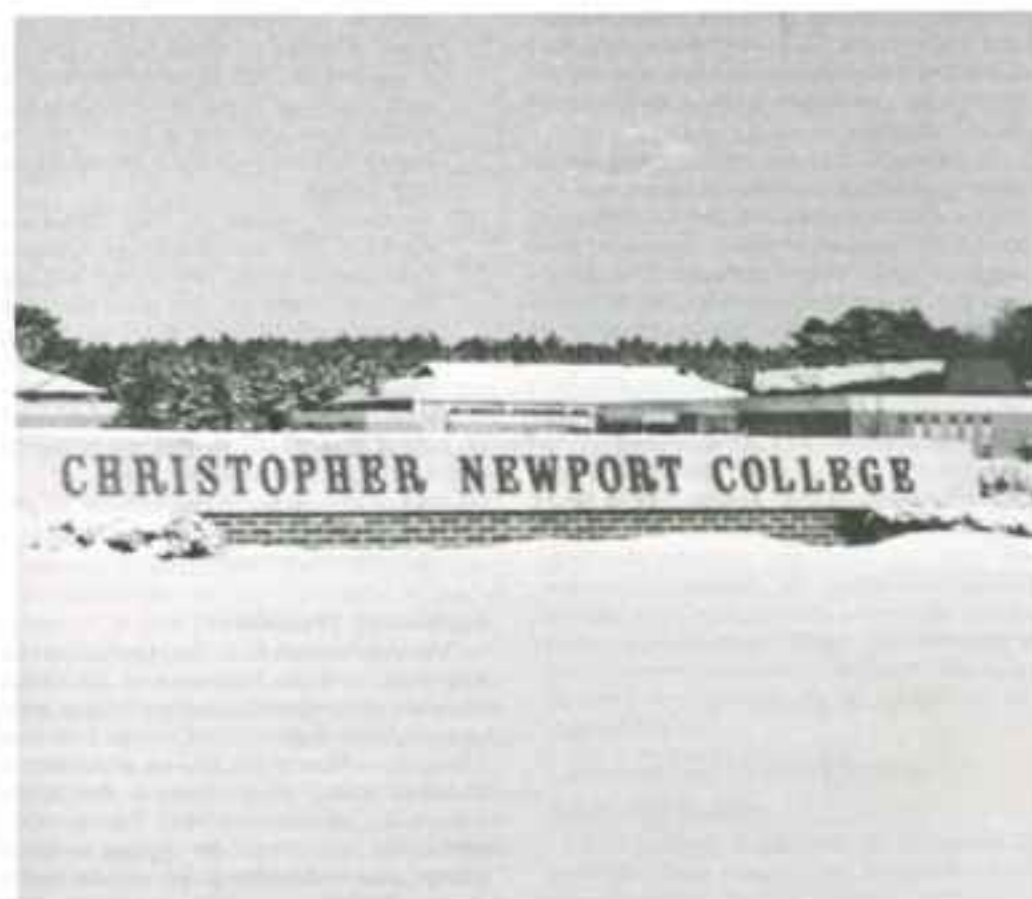
A service building of 10,000 square feet, for which construction began in May of 1978, was completed in May of 1979. Situated nicely among trees on the northeast corner of the campus near Warwick Boulevard, the building houses offices for buildings and grounds personnel, maintenance shops, and equipment. A portion of the building serves as a campus warehouse.

FUTURE CONSTRUCTION

Plans are now underway for the addition of a 40,000 square foot, four-story administration building which will house the Registrar, Admissions, Business, Academic Deans', Academic Vice-Presidents' Development, Alumni, Public Relations, Continuing Studies, Planning and Institutional Studies, and President's offices. This building, for which ground breaking ceremonies were held in May of 1979, will also include an auditorium and special display area as well as some 50 faculty offices. It is scheduled for completion in August of 1980.

The College also plans a major expansion to the Campus Center. The new addition is expected to provide for a larger cafeteria and pub, a new game room and arts and crafts center, a new and larger bookstore, additional study, lounge and meeting rooms, a multipurpose room with a large dance floor and stage, and a Student Affairs complex to house the Office of the Vice President for Student Affairs, Counseling Center, Career Planning and Placement, Financial Aid, Student Activities, and a proposed Student Health Service.

The College is also planning a 20,000 square foot addition to the Goswold Science building.



Admission To The College

Christopher Newport College does not discriminate with regard to race, color, religion, sex, age, ethnic group, national origin, handicap, or political affiliation.

Depending on the applicant's educational goals and background, the College accepts the applicant either as a Classified or Unclassified Student. A Classified student seeks immediate admission into a particular baccalaureate degree program; any other applicant accepted into the College is considered an Unclassified student. Either type of applicant may request or be assigned to part-time status (less than twelve hours or the equivalent, including non-credit preparatory work and required physical education) when this seems academically beneficial. The exact course load for a Classified student is always determined during the interview with a counselor or faculty advisor.

Applicants for admission must present their applications on forms obtained from the Office of Admissions. Applicants wishing to enroll as Classified students should file their applications for the fall semester by August 1 and for the spring semester by December 15. After these deadlines, applicants may be required to apply as Unclassified students. While a student so admitted may file for a change of status at a later date, an applicant must be admitted to Classified status before enrolling in the last thirty credits applicable toward a baccalaureate degree.

Classified (Degree-Seeking Status)

Freshman Applicants

The general requirements for admission (as a freshman) to Christopher Newport College are as follows:

- (1) Graduation from an accredited secondary school or its equivalent as shown by examination (See Admission Based on Equivalency Tests below).
- (2) An average of C or better in a program consisting of a minimum of sixteen units (grades nine through twelve). Preferred credits include four units of English, three of mathematics (two in algebra and one in geometry), two in history, two in science (including one laboratory science), and two in a foreign language (ancient or modern). A student who plans to major in mathematics, science, or engineering will be better prepared for such a program if his or her high school studies have included a fourth unit in higher mathematics and a second laboratory science.
- (3) Acceptable scores on the Scholastic Aptitude Test of the College Entrance Examination Board. The College will also evaluate scores on any other standardized tests administered to the student by his or her secondary school. January applicants must take the SAT no later than December; otherwise, scores reach the College too late for processing for second semester admissions.
- (4) Recommendation for admission by the second school principal or guidance counselor. (Optional)

Application Procedures

The Application Fee. The Application for Admission and the Statement of Residency (obtained from the Admissions Office) must be completed and returned to the Office of Admissions. New applicants for admission to Classified status must submit a \$10.00 fee with the application. This fee is non-refundable and cannot be applied to other college fees. The check or money order should be made payable to Christopher Newport College. If the student does not enroll in the semester for which he or she

originally applied, the fee may be carried over only to the next semester.

The following documentation must be submitted in addition to the Application for Admission and the Statement of Residency:

Secondary School Record. The transcript form should be delivered to the secondary school with instructions on when it should be sent to the College, based on the following factors:

Early consideration. An applicant who has taken the Scholastic Aptitude Test or plans to take it by December of his or her senior year and who has a strong school record (B average or higher) may want to receive early consideration. If this is the case, the applicant should request that the transcript, with the grades through the junior year, be returned to the College immediately.

Consideration after mid-year senior grades are available. The applicant to whom the early consideration does not apply should have the transcript sent after mid-year senior grades are available. Any applicant who has already graduated from high school should have this record sent immediately.

G.E.D. Certificate Holders. An applicant who has completed the military or civilian high school equivalency tests is asked to furnish the following items:

- (1) G.E.D. Certificate and scores;
- (2) Partial high school record (send transcript form to last school attended);
- (3) Records of any preparatory work taken since leaving high school, such as USAFI courses, adult education courses, etc.

Scholastic Aptitude Test of the College Entrance Examination Board. Each applicant for admission to the Freshman Class is required to take the Scholastic Aptitude Test. The College prefers that the applicant take the July, November, December, or January test, but scores from the March or April test are acceptable. January applicants, however, must take the SAT no later than December; otherwise, scores reach the College too late for processing for second semester admission. A student may arrange to take the test through the guidance office at his or her high school. An applicant who is no longer in school may pick up an application for the test at the

Admissions Office or may write to the Educational Testing Service, Box 592, Princeton, New Jersey 08540. A.C.T. scores will be accepted in lieu of S.A.T. scores.

Transfer Applicants

The following documentation must be submitted in addition to the Application for Admission and the Statement of Residency:

Secondary School Record. If the applicant has completed less than a full year (24-30 semester credits or 36-45 quarter credits) of college work applicable to a baccalaureate degree, or if the college credits have been acquired through extension or correspondence courses, the applicant should ask the principal of his or her secondary school to send the College a transcript of this record. A community college student in a technical-occupational program may be considered, but must submit the secondary record in addition to his or her college record(s).

The applicant who is applying for the semester beginning in January should have all transcripts sent immediately following formal application to the College. Applicants in their first semester of college must have mid-semester grades sent to the College as soon as they are available.

College Records. The applicant must request that all colleges attended send to Christopher Newport College official transcripts of his or her record. The student who is currently enrolled in a college or university should have the transcript sent after completion of the first semester (or the second quarter) of the current academic year. An applicant who has completed less than one semester, trimester, or quarter at another college must nevertheless present an official transcript from that college. Concealment of previous attendance at a college or university is cause for cancellation of admission and registration.

Unclassified (Non-Degree Seeking) Status

The College recognizes its obligation to students whose interests and backgrounds are not necessarily served through immediate participation in the College's degree programs

but who could benefit from portions of the College's regular curriculum or special programs offered by the College. To meet this need, the College permits individuals to enroll as unclassified (non-degree seeking) students in both day classes (when space is available) and in evening classes. Such students include those whose prior academic records do not adequately document their ability to cope immediately with the demands of a degree program and who wish to demonstrate that they can do so, and those who desire to earn academic credit applicable to a degree from another college or university. Unclassified students receive academic credit in the same manner as Classified students, and they are expected to meet prerequisite requirements for individual courses unless excused by the Vice-President of Academic Affairs because of occupational or other experience.

Requirements For Admission

An applicant without prior college attendance must (1) be a graduate of an accredited secondary school or (2) have earned a G.E.D. Certificate.

An applicant with prior college attendance will be considered on the basis of his or her college record(s). If an applicant has been placed on academic suspension by the college previously attended, he or she may be considered for admission to Christopher Newport College as an Unclassified student after a period of at least one semester or two quarters has passed.

For non-degree seeking status the College requires previous academic records for counseling and advising purposes only. During registration and late registration, any student who does not have immediate access to such records may be admitted to Unclassified status, limited to 7 hours. Such limitations will be removed after records are received and reviewed.

An Unclassified student may be permitted to carry a full-time academic load if prior academic records indicate sufficient aptitude and preparation. In some cases, the applicant for full-time admission may be limited to a part-time or minimum full-time load for the first semester at the college.

Application Procedures

- (1) The applicant must fill out and submit to the Office of Admissions the form Application for Admission and the Statement of Residency.
- (2) The applicant must also provide data supportive of this application.
 - (a) A high school graduate must send an official transcript of his or her high school records.
 - (b) An applicant who has earned a G.E.D. Certificate must forward an official transcript of his or her high school record and an official transcript of the G.E.D. Certificate and scores.
 - (c) If the applicant has attended college(s) previously but has not graduated, a transcript from the last college attended is required; however, the applicant should have official transcripts sent from all colleges attended for advising purposes.
 - (d) If the applicant has attended college and earned fifteen or more transferable semester credits but has not been graduated, the applicant must have the college(s) send the official transcript(s) of his or her record and have the registrar at the last college attended as a full-time or degree-seeking student fill out the Certificate of Academic Standing.
 - (e) If the applicant is a college graduate, the applicant must have the registrar at the college that graduated him or her signify such on the Certificate of Academic Standing.

Requirements To Change To Classified Status

Admission to the Unclassified status does not mean that a student cannot enter Classified status at a later date. While an Unclassified student may apply to be admitted into Classified status at any time, he or she must apply for such prior to enrollment in the last thirty credit hours applicable to a degree; however, in the case of the B.A. and B.S. degrees, it is highly advisable that

application be made prior to the last sixty credit hours applicable to the degree. Forms for this change are available from the Office of Admissions.

Application does not mean acceptance; acceptance comes only after an affirmative review of the applicant's records by the Committee on Admissions.

Medical Form

Any applicant, regardless of status, who plans to take a Physical Education activity course, must submit a completed medical examination form. This form will be provided at the time of admission and will be filed with the Physical Education Department.

Admission Based on Equivalency Tests

The College will consider for admission adults who have satisfactorily completed the military or civilian high school equivalency tests. In addition to the scores achieved on these tests and the certificate of equivalency, the College will require the applicant's partial high school record and his or her scores on the Scholastic Aptitude Test. If the applicant lacks the necessary preparation in specific high school subjects, he or she may be admitted as a full-time student to the Basic Studies Program or may enroll as a part-time student in Basic Studies courses only. (See section entitled Basic Studies Department.)

Early Admission Without High School Graduation

Students with strong academic abilities may be considered for admission following completion of the junior year of high school. Such students should have taken a well-rounded program of studies, including English, College-preparatory mathematics, science, social studies, and foreign language.

In addition to the high school transcript, Scholastic Aptitude Test scores, and application as a degree-seeking student, the applicant is encouraged to submit any special evidence of preparation for college, such as special projects, etc. The high school counselor will be asked to speak directly to the question of

the student's maturity and readiness for college.

Any student interested in early admission should have an interview with the Dean of Admissions before filing an application.

Enrichment Program For High School Students

(College Attendance Prior to High School Graduation)

The College invites the above-average high school student who has completed the work of the junior year to apply for admission as a part-time Unclassified, non-degree seeking student in the High School Enrichment Program. A primary objective of this program is to bridge the gap between high school and college and to afford the college-bound student the experience of learning in the college setting prior to graduation from high school.

More than sixty courses from eighteen academic disciplines are available to the enrichment student. College credit for these courses is awarded and may be used toward a degree at Christopher Newport or may be transferred to another college or university. The transfer and evaluation of credits earned in college level courses prior to high school graduation depends, however, on the decision of the receiving institution.

The applicant interested in this program should schedule an admission interview with the Admissions Officer. During the interview, the details of the program will be discussed and application material will be issued. Special admission requirements include the following: (1) an above-average academic high school record in college preparatory courses and acceptable aptitude and achievement test scores; (2) an evidence of interest and determination to meet the challenge of college-level work; and (3) the recommendation of the high school principal, headmaster, or guidance counselor.

Since the College considers that the purpose of this program is for the academic enrichment of the student, enrollment in the program is limited to areas of study not normally available to the student in high school.

Basic Studies

Any student who registers for Basic Studies courses only, or who is limited to Basic Studies courses only at the time of admission, may not register for regular academic courses until his or her performance has been reviewed by the Basic Studies faculty and the Committee on Admissions.

International Students

International applicants must complete applications for admission for the fall semester by July 1 and for the spring semester by November 15)

Students who are not American citizens, whether applying for admission as Classified or Unclassified students, must have official transcripts sent directly to the Office of Admissions from all secondary schools and colleges attended. The Test of English as a Foreign Language (TOEFL) is required. Refugees in the United States who cannot obtain official copies of their academic records, must achieve a satisfactory score on a U.S. high school equivalency test. Students applying for Classified status must also submit their SAT scores.

International students should be certain that they have adequate funds before coming to the United States for study. As a non-residential, state-supported institution, the College can provide neither dormitory facilities nor financial assistance to foreign citizens. Nevertheless, the academic community is enriched culturally and intellectually by its numerous foreign students, and the College presently serves students from many foreign countries.

Senior Citizens

Senior citizens who are 60 or older and residents of Virginia have special opportunities for enrollment in Christopher Newport College and in all other state colleges. Senior citizens may register for and attend courses and pay no tuition and applicable required fees. A senior citizen who wishes to work toward a degree should apply as a degree-seeking student; citizens wishing to take courses for general interest should apply as

Unclassified students. Enrollment in Non-Credit Courses (Continuing Education) or in Credit Courses should be on an auditing basis. Senior citizens who are residents of Virginia may register for a maximum of three such courses per semester without paying tuition or fees.

Servicepersons' Opportunity College (SOC)

Christopher Newport College endorses the concept of assisting service men and women under the terms of the Servicepersons' Opportunity College (SOC) program, and has been designated by the Department of Defense as an SOC college. Because of the special needs of the Serviceperson and his or her family, the College (1) has an admission policy that recognizes the life conditions of servicepeople, (2) eliminates artificial barriers which hinder the educational progress of servicepeople and (3) provides special educational services to meet the special needs of servicepeople.

These are some of the features of the SOC program:

1. Courses are offered on local military bases during evenings and weekends.
2. Courses are offered in eight-week sequences rather than the traditional fifteen.
3. Special assistance is offered through tutorial services, specially qualified counselors, and the Basic Studies program.
4. Maximum credit is awarded for "non-traditional" learning through such programs as USAFI, CLEP, and certain types of education experiences in Armed Forces service schools.
5. Liberalized residence requirements are permitted in earning the baccalaureate degree (thirty hours total, twelve hours in the major area earned in residence at any time.)

One of the special features of the SOC Program at the College is that its benefits are extended not only to servicepeople but to their dependents as well.

Project Ahead

Christopher Newport College is a Project Ahead (Army Help for Education and

Development) College.

Under this program, the individual enlists in the service and, at the same time, starts college. While in the service, he or she pursues a planned course of study leading to a Christopher Newport College degree at whatever accredited colleges are most convenient to his or her station of duty. CNC maintains a credit bank of all appropriate courses taken elsewhere and assures the student that, upon discharge or return to the area, these courses will apply to the appropriate CNC degree. The Army pays up to 75% of all tuition incurred. Individuals interested in pursuing their studies under Project Ahead must have an interview with Christopher Newport College's Registrar and Dean of Admissions.

Evaluation Procedures For All Applicants

After all application materials have been received, they will be reviewed carefully and the applicant will be informed in writing of the decision. In addition to weighing grades and test scores, the admission procedure of Christopher Newport College takes into account, where applicable, evidence of the applicant's maturity, professional or military experience, co-curricular activities, community involvement, letters of recommendation, and the applicant's own educational and career objectives as stated on the Application for Admission. Upon due acceptance, applicants are entitled to register and receive college credit for all work satisfactorily completed.

Occasionally an applicant for admission to Unclassified Status cannot obtain in time for registration the necessary supporting documents (transcripts, etc.). In this case, with the consent of the Dean of Admissions, he or she may be admitted as a Conditional Student. A conditional student requesting more than a normal part-time program may be considered for admission as a full-time student if he or she presents unofficial copies of his or her academic record. The College will be forced to cancel the registration of any student whose records, upon arrival, indicate that he or she is ineligible for admission. If a conditional student's records do not arrive by the end of the semester, the College will be unable to release grade reports, transcripts, or any other information concerning his or her scholastic

record at Christopher Newport College.

Interviews

An interview is not routinely required for admission. Any applicant who desires an interview, however, is invited to contact the Admissions Office for an appointment. After admission, each student will be scheduled for a counseling interview to assist in planning his or her academic program.

Advanced Placement and Credit Earned by Examination

1. *The Advanced Placement Program of the College Entrance Examination Board.*

This program offers to able and ambitious students the opportunity to qualify for advanced placement and credit in American history, art, biology, chemistry, English, European history, French, German, Latin, mathematics, music, physics, and Spanish. Applicants for advanced placement should plan to take the College Board Advanced Placement Test offered each May by secondary schools teaching Advanced Placement courses. The test results will be evaluated by the College and official notification of the decision sent to the student.

2. *The College-Level Examination Program of the College Entrance Examination Board.*

Christopher Newport College is a test center for the administration of the CLEP tests, both Subject and General. Interested students should contact the CLEP Center Administrator in the College Counseling Center.

No more than sixty semester credits attained through special institute or correspondence study, by examination (including CLEP), extension division study, or earned through advanced placement in an academic department may be applied toward the CNC degree.

a. Subject Examinations

Individuals who have acquired considerable knowledge of a subject through wide and careful reading, independent study, non-accredited instruction, or some other method now have the opportunity to earn college credit through

examination.

Subject exams accepted at CNC are: American Government, American History, American Literature, Analysis and Interpretation of Literature, General Biology, Calculus with Elementary Functions, Clinical Chemistry, College Algebra, College Algebra-Trigonometry, College Composition, Educational Psychology, Elementary Computer Programming, Fortran IV, English Literature, General Chemistry, General Psychology, Hematology, History of American Education, Human Growth and Development, Immunohematology, Introduction to Business Management, Introductory Accounting, Introductory Business Law, Introductory Micro- and Macro-Economics, Introductory Marketing, Introductory Sociology, Microbiology, Money and Banking, Statistics, Tests and Measurements, Trigonometry, Western Civilization, credit available for Nursing Program students only, Anatomy, Physiology, and Microbiology, Behavioral Sciences for Nurses, Fundamentals of Nursing, and Medical-Surgical Nursing. Credit is awarded on the basis of guidelines set up by the nursing program. (See nursing advisor.)

The CLEP testing Center administers all CLEP exams, but only the above are accredited by this college. Other subject exams are: Afro-American History, Computers and Data Processing, Dental Materials, Freshman English, Head, Neck and Oral Anatomy, Modern Languages (French, German, Spanish), Oral Radiography and Tooth Morphology and Function.

In order to avoid the possibility of duplicated credit, students who have received collegiate instruction in any subject should consult with the Vice-President of Academic Affairs before proceeding to attempt a CLEP Subject Exam in the same area. Students may take Subject Exams in their majors provided they plan to take at least twelve credits of work in their major at the College.

A Christopher Newport College student may take a Subject Exam in a course which he has failed, and receive credit

for the subject when the CLEP test is passed with a qualifying score. A form for approval to take the CLEP test is available and should be filled out by the student in advance.

A transfer student who has a D in a subject taken at a college previously attended may take the CLEP examination in the subject with permission of the Vice-President of Academic Affairs.

A list of examinations for which credit may be given and the scores required may be obtained from the CLEP Center Administrator in the Counseling Center.

b. General Examinations

Students planning to enter the College who have had no more than one transferable course in a specific area covered by the General CLEP Exam and who, by their work or other experience, feel they have gained substantial knowledge, are eligible to take the General Examinations. It should be emphasized that the general-level examinations are equivalent to end-of-the-year exams and require more than a cursory knowledge of the areas. If all areas are passed, thirty hours of college credit can be earned.

Christopher Newport College will accept CLEP General Examination scores from other test centers, but credit for the CLEP score will be based on the CNC scale. A student who achieves the required score (35%) on the General Exams will receive six credits toward fulfilling the distribution requirements in these areas: English Composition (English 101-102), Humanities (six credits in humanities requirements), Mathematics (six credits for a beginning math course), Natural Sciences (six credits in science), Social Science-History (six credits of distribution in the social sciences).

Beginning in 1979, CNC will require students to take the CLEP General English exam with essay format. It is the only format that Christopher Newport College students will be allowed to take. Transfer students must meet this requirement by October, 1979. The English CLEP with essay is only given twice a year, June and October.

3. Language Placement Examinations.

Credit can also be earned in a foreign language by taking the foreign language test in French, German, Latin or Spanish. Successful completion of the examination can earn the student from four to fourteen hours and may satisfy the language distribution requirement.

Application for Placement Examinations must be made through the Chairman of the Department of Foreign Languages and Literatures.

G.I. Bill Certification

Christopher Newport College is approved by the Virginia State Approval Agency for the purposes of payment under Title 38 of the U.S. Code, Chapters 31, 32, 34 and 35. These laws are commonly referred to as the "G.I. Bill."

Applicants planning to attend the College utilizing V.A. educational benefits should notify the CNC Office of Veteran Affairs as soon as possible prior to the beginning of their first semester of studies. Since initial processing of an award may take up to two months, the veteran should be prepared to offset any expenses during this period until his/her first education allowance arrives.

VETERANS should furnish the office a copy of their separation/discharge papers (Form DD-214) and should complete V.A.

Form 1990 at their earliest convenience. ACTIVE DUTY PERSONNEL should contact their Education Services Officer to obtain a V.A. Form 1990-a, which when completed, should be forwarded to the CNC Office of Veteran Affairs for processing.

V.A. benefits cannot be used to pay for audited courses, nor will the V.A. pay for Non-Credit C.E.U. (Continuing Education) courses. Counseling on all V.A. benefits is available at the Office of Veteran Affairs daily.

Auditing Students

An individual who wishes to take courses on an auditing basis should contact the Office of Admissions for a special application form. Auditors are not required to furnish any academic documentation.

Summer Session Applicants

Applicants interested only in summer session courses of study at the College should contact the Office of Admissions for a summer session bulletin which includes the application form for admission. The summer Session Bulletin is usually available by mid-April.



Fees & Expenses

With the approval of the proper authorities, the College reserves the right to make changes in tuition and other fees at any time.

In compliance with the policy of the other tax-supported institutions of the Commonwealth of Virginia, the College will require a non-refundable fee of \$10.00 to cover the cost of processing the application for admission as a classified student. A check or money order for \$10.00 made payable to Christopher Newport College, must accompany the preliminary application and is not to be considered as a partial payment on the normal tuition charges. If the student does not enroll in the semester for which he or she originally applies, the fee may be carried over only to the next semester.

No fee is required of anyone applying for admission as an unclassified student. If the student wishes to change his or her status to classified, he or she must pay the required non-refundable fee of \$10.00.

Payment of Accounts

A deposit of \$25.00 is required of each new student to reserve his or her space at the College. This payment is applied on the student's regular college account. A student enrolling for the first time should not pay the deposit until notified of admission to the College. The deposit will be returned only if the notice of withdrawal is received in writing, postmarked no later than June 15 for the fall semester or December 1 for the spring semester. The College has established a procedure for the early registration for all classes, both for current and new students. Students should be aware, however, that no classes will be reserved unless they have paid or made arrangements to pay their tuition. Tuition and fees are due at the time of registration and registration has not been completed until all requirements of the Business Office have been satisfied. All checks should be made payable to Christopher Newport College. The College accepts Visa and MasterCard.

Tuition, Comprehensive Fee and Registration Fee

The Tuition and Comprehensive Fee (\$26 per semester hour for in-state students and \$36 per semester hour for out-of-state students) is a payment toward the general maintenance and operating costs of the College. The Comprehensive Fee is \$8.00 per semester hour during the Regular Session and \$5.00 per semester hour during the Summer Session and for Off Campus classes. The Registration Fee is \$5.00 per student per semester and is non-refundable. Military students, enrolling under a plan in which the Armed Services pay part of the costs, need pay at the time of registration only that portion of the tuition fee for which the individual is personally responsible. Tuition assistance papers must be provided at the time of registration.

An auditing fee of \$26.00 is charged for each semester credit and should be paid at the time of registration for the course.

Deferred Payment Plan

To use the deferred payment plan students must apply to the cashier for information and the appropriate forms. All previous semester charges must be paid in full to qualify for the current semester. Approximately forty (40) percent, in no event less than \$100.00, of the total tuition and fees due must be paid initially, and the balance must be paid according to the established schedule. Students who use this plan must keep the cashier informed of address changes. The deferred payment plan may not be used for CEU classes or where the tuition and fees amount to less than \$100.00. In accordance with State policy, all delinquent accounts must be referred for collection to the Attorney General of the Commonwealth of Virginia or to a Collection Agency for collection.

Impound Policy

Registration of returning students will not be permitted unless all previous College financial obligations have been met and all College property (including Library books) from the previous semester have been re-

turned in satisfactory condition. Unless all these obligations have been met, there will be no release by the College of information including transcripts to other Colleges and Universities, or business and industrial employers.

Classification as a Virginia Student

The Code of Virginia 23-7 provides that, "No person shall be entitled to the admission privileges, or the reduced tuition charges, or any other privileges accorded only to domiciliaries, residents, or citizens of Virginia, in the State institutions of higher learning unless such person is and has been domiciled in Virginia for a period of at least one year prior to the commencement of the term, semester or quarter for which any such privilege or reduced tuition charge is sought, provided that the governing boards of such institutions may set up additional requirements for admitting students."

A person who enrolls in any such institution while not domiciled in Virginia does not become entitled to admission privileges, or reduced tuition charges or any other privileges accorded only to domiciliaries, residents or citizens of Virginia by mere presence or residence in Virginia. In order to become so entitled, any such person must establish that, one year before the date of his alleged entitlement, he was at least eighteen years of age or, if under the age of eighteen, he was an emancipated minor, and he abandoned his old domicile and was present in Virginia with the unqualified intention of remaining permanently in Virginia after leaving such institution. The burden of establishing these matters by convincing evidence is on the person alleging them.

Notwithstanding marriage to a person who is not domiciled in Virginia, a person who is classified or classifiable at the date of his or her marriage as eligible to receive the privileges herein described, may receive or continue to receive such privileges until he or she abandons his or her Virginia domicile other than through any presumption of law attaching to the ceremony of marriage."

Eligibility for Virginia Status

Domicile is a technical legal concept that refers to the place (state) where a person resides with the unqualified intention of remaining permanently and with no present intention of leaving. A person can have only one domicile at one time.

At the moment of birth one acquires the domicile of one's father, and this domicile will generally change with changes in the father's domicile until one marries, reaches eighteen, or becomes emancipated at any earlier age. (Should legal guardianship shift for any reason, including the father's death or parental separation or divorce, the child's domicile will be controlled by that of the mother or other legal guardian.)

A student whose father (or legal guardian) is and has been domiciled in Virginia for more than twelve months will be eligible for Virginia status if the student's domicile is controlled by his or her father's. A student whose domicile is controlled by his or her father's (or legal guardian's etc.) will not be eligible for Virginia status unless the father or legal guardian has been domiciled in Virginia for at least the twelve months immediately preceding the date of claimed entitlement.

A student who has come to Virginia while domiciled in another may become eligible for Virginia status only after being domiciled in Virginia for twelve months. The student should carefully consider the meaning of *domicile* above and *Change of Domicile*.

A person may change his or her state of domicile by entirely abandoning the prior state of domicile with the *sincere and unqualified intention of remaining permanently* in the new state of domicile. There is a presumption in law that a domicile, once acquired, subsists until a change is proved, and the burden of proving the change is on the party alleging it. *The intention to abandon an old domicile is not sufficient; a new domicile must actually be acquired.*

Residence in a state for the purpose of acquiring an education at an institution in that state does not establish a domicile because the residence is established for a limited

and temporary purpose. The student who wishes to change his or her domicile from another state and claim Virginia as the new domicile must establish by convincing evidence that he or she unqualifiedly intends to remain permanently in Virginia after graduation. Before being entitled to Virginia status, this student must wait one year from the time his or her domicile is shifted to Virginia.

Military personnel may reside in Virginia without being domiciled here, and military personnel domiciled in Virginia may reside elsewhere. A person who is absent from the State as a result of military service does not thereby lose his or her domicile; however, such a person must continue to meet the responsibilities of being a domiciliary of Virginia and must not claim any privileges accorded only to a domiciliary of any other state. The mere stationing of a military person in Virginia does not automatically constitute domiciliary.

Refunds to Students

Withdrawing from Classes

Students who wish to withdraw from the College must notify the College on a form secured from the Office of the Registrar. No refund will be made to a student who withdraws unofficially or who has been required to withdraw by the College, regardless of the date of withdrawal. All refund checks come from the State Treasurer's Office in Richmond and may take as much as ninety (90) days from the time of registration.

Subject to the following regulations and exceptions, all charges made by the College for fees are considered to be fully earned upon the student's completion of registration.

1. When a class or classes are cancelled or moved at the option of the College, the student may receive a refund credit of all tuition and comprehensive fees charged for the class or classes...100%
2. A student who drops a class(es) or withdraws from school before classes at the College begin may receive a refund credit of 90%

3. A student who drops a class(es) or withdraws during the first week of classes may receive a refund credit of ...80%
4. A student who drops a class(es) or withdraws during the second week of classes may receive a refund credit of ...60%
5. A student who drops a class(es) or withdraws during the third week of classes may receive a refund credit of ...40%
6. A student who drops a class(es) or withdraws during the fourth week of classes may receive a refund credit of ...20%
7. A student who drops a class(es) or withdraws after the fourth week of classes will not be entitled to a refund ...0

Non-Recurring Fees

Application Fee:	\$10.00
Graduation Fee: (includes diploma and regalia)	
Associate's	10.00
Bachelors	20.00

Incidental Expenses

It is impossible to estimate the exact costs of clothing, travel and incidental expenses, for these are governed largely by the habits of the individual. The cost of books depends on the courses taken. Money for books cannot be included in checks covering college tuition and fees; they should be paid for in cash or by separate check when purchased.

Withholding of Transcripts and Degrees in Case of Unpaid Accounts

Transcripts or any other information concerning scholastic records will not be released until college accounts are paid in full. Degrees will not be awarded to persons whose college accounts are not paid in full.

Cashing of Student Checks

The College does not have facilities for handling deposits for students' expenses, but the Business Office is prepared to cash checks up to \$25.00. Checks should be made payable to cash. Two-party checks will be cashed only when made payable to the student by his parent. Under our regulations as a State institution, we are not permitted to cash checks made payable to Christopher Newport College.



Student Life Responsibilities

Registration as a student at Christopher Newport College implies that the student will accept certain responsibilities which are essential to membership in the college community. A minimum number of rules and regulations provides an atmosphere of freedom and responsibility.

The discipline of the College is vested in the President by the action of the Board of Visitors. Infractions are considered by the Discipline Committee, which represents administration, faculty, and students. The College reserves the right at any time to suspend or dismiss a student whose conduct or academic progress is, in its judgment, unsatisfactory. Regulations governing conduct and student life are printed in the *Christopher Newport College Student Handbook*.

Student Dress

A student's dress and general appearance are considered to be a matter of personal taste. Courtesy and a concern for the rights of others, however, dictate that they be appropriate to the place and occasion. Students are expected to maintain standards of dress and comportment which are generally acceptable at the College and in the community.

Parking Regulations

Students who wish to use College parking facilities must register their automobiles with the Director of the Campus Center, at which time an identification sticker will be issued. Students parking unregistered vehicles in College parking areas will be subject to a fine. All students are expected to park in the designated lots. Regulations concerning parking will be distributed with automobile registration information.

Rights

At Christopher Newport College, students, faculty, and administrators are considered vital in the educational process. While it is recognized that each of these groups has its own role in this process, it is also understood that cooperation and mutual respect are necessary for a significant learning experience to take place. Students play a major role in

determining their own affairs in at least three areas: student government, the Code for Academic Work, and certain faculty committees.

Student Association

All regularly enrolled students at Christopher Newport College are members of the Student Association. The major function of the Student Association is to provide a forum for the expression of student views and interests to the Faculty and Administration of the College.

Code for Academic Work

The Academic Hearing Board is composed of three students, nominated by the executive council of the Student Association and voted on by the student government assembly, and three faculty members elected by their

colleagues. In addition to the Academic Hearing Board, there is a Hearing Examiner, a member of the faculty appointed by the President of the College, who presides and fills the role of nonvoting chairman. The Academic Hearing Board is given authority over the College's Code for Academic Work.

All students accept the jurisdiction of the Student Association, the College's Code for Academic Work, and regulations governing conduct and student life as they affect them both academically and socially, and as they are explained in the *Student Handbook*.

Faculty Committees

Students are given a voice in College affairs through representation on appointed student personnel services committees and appointed and certain elected faculty committees. Appointed by the Student Association, students now serve as members on a number of major committees.

Activities

Athletic Program

The College offers intercollegiate competition for men in basketball, cross country, golf, indoor and outdoor track, soccer, tennis, for women in basketball, volleyball, tennis, co-ed intercollegiate outdoor track, intramural competition for men in basketball, bowling, flag football, golf, pool, ping-pong, turkey trot, softball, table tennis, volleyball; for women in archery, badminton, basketball, gymnastics, softball, volleyball, bowling. Further athletic activity is available through a strong club sports program. Athletic organizations sponsored by the Director of Intramurals and open to both men and women include the fencing, gymnastics, karate, and sailing clubs.

The College teams play under the name "Captains." The College colors are royal blue and silver.

Organizations

Christopher Newport College encourages students to participate in the extra curricular life of the College as well as its academic life. A number of social, religious, service, and interest organizations have been established on campus and are listed and described below. Students interested in creating additional clubs are encouraged to consult with the Vice President of Student Affairs.

ALPHA KAPPA PSI NATIONAL BUSINESS FRATERNITY (Iota Pi Chapter)

strives to relate the business degree to the business community, instill the principles of good management, and to provide through group activity the environment necessary to accomplish these aims.

BAPTIST STUDENT UNION presents a practical and biblical concept of Christ and his teachings and promotes Christian fellowship among the student body.

BIOLOGICAL SOCIETY OF CNC strives to provide discussions of current topics of interest and provides service to the College.

BLACK STUDENT ASSOCIATION works toward a closer relationship between black students and the rest of the College community.

BRIDGE CLUB OF CNC promotes general interest in bridge and provides instruction and the opportunity for competition to interested students.

CHESS CLUB OF CNC promotes a general interest in chess and provides instruction in chess at all levels.

CHI PSI OMEGA FRATERNITY promotes service, good fellowship, and high scholarship among its members.

CHRISTIAN SCIENCE ORGANIZATION at the College holds weekly testimony meetings for all interested persons and sponsors an annual lecture to help promote religious understanding on campus.

CHRISTOPHER NEWPORT ASSOCIATED PHOTOGRAPHERS (CNAP) promotes interest in photography, provides instruction in photography for members, and maintains the darkroom facilities in the Campus Center.

CIVITAN CLUB is a service and citizenship-oriented organization sponsored by Civitan International.

CNC PLAYERS is a group of students who are interested in all aspects of the theatre and who produce a number of plays.

CONCERT MUSIC CLUB promotes the appreciation and performance of concert music.

DISTRIBUTIVE EDUCATION CLUB furthers the aims and purposes of the DE program at the College.

FENCING CLUB OF CNC provides instruction and participation in fencing for interested students.

GOVERNMENT CLUB strives to create student and faculty interest in public affairs, to develop career opportunities, and to improve educational opportunities.

GYMNASTICS CLUB provides opportunities for the unskilled as well as the skilled to train and practice activities on various gymnastics equipment.

HISTORY CLUB encourages an interest in history and related fields through films, discussion, and in field trips.

HONOR SOCIETY - ALPHA CHI NATIONAL COLLEGE HONOR SCHOLARSHIP SOCIETY (Zeta Chapter) whose objective is the stimulation, development and recognition of scholarship and those elements of character that make scholarship effective for good.

HORTICULTURE CLUB promotes an interest in the cultivation and enjoyment of plants.

INTERNATIONAL CLUB furthers a better understanding of languages and cultures of the members of the club and shares these understandings with the student body.

INTRAMURALS ACTIVITIES COUNCIL aids the division of Intramurals Activities of the Department of Health and Physical Education in encouraging the student body to participate in wholesome and active recreation.

KARATE CLUB OF CNC provides expert instruction in the philosophy and technique of karate.

MODERN LANGUAGES CLUB OF CNC (French, German, Spanish) encourages students to use the languages in an informal setting through the presentation of slides and conversations with native speakers.

ORGANIZATION FOR WOMEN'S EQUALITY explores the issue of equal opportunities for both sexes in all fields of endeavor and promotes discussion of these ideas among the student body.

OUTING CLUB provides students opportunities to participate in such activities as hiking, camping, canoeing, bicycling and portaging.



PI KAPPA SIGMA SORORITY encourages leadership and fellowship among its sisters and promotes the College in the community.

PSYCHOLOGY CLUB provides students the opportunity of serving the College and community through academic program and service.

SAILING CLUB OF CNC promotes sailing among students and faculty. Skilled members form a team for intercollegiate racing.

SOCIOLOGY CLUB stimulates interest in sociology and social welfare; provides service to the College; promotes cooperation between students and faculty; provides opportunities for informal interaction among the members.

VETERANS' ASSOCIATION aids and gives counsel to incoming veterans, promotes higher scholastic achievement among members and provides social activities for the student membership.

VIRGINIA EDUCATION ASSOCIATION CNC CHAPTER brings together members of the student body, faculty, and staff to provide programs which foster better understanding of the teaching profession.

Publications

The College encourages students interested in journalism, creative writing, art, and photography to investigate the student publications listed below.

THE CAPTAIN'S LOG, the College's official student newspaper, affords practice in journalistic writing, advertising, and photography.

CURRENTS, the campus literary magazine, publishes the creative art work, writing, and photography of interested students, faculty, and staff.

THE COUNSELING CENTER

The Counseling Center offers a varied array of services designed to assist students with personal growth and self-development. The Center provides individual and group counseling programs. Many students find it helpful to discuss personal concerns with a professionally trained counselor who can provide an objective atmosphere in which to assess personal problems and methods of dealing with them. Students may discuss

freely their feelings, problems, or interests concerning educational and vocational decisions, marital and family relations, and personal challenges in strict confidentiality. Counselors and psychologists in the Center also have a wide variety of experience in conducting outreach groups and mini-workshops. These groups and workshops are for students who would like to learn more about themselves and others in an effort to improve understanding of self, understanding of others, and to develop effectiveness in interpersonal relationships. Group offerings include such topics as Career Exploration, Women's Support, Minority Self-help, Human Sexuality, Decision Making, Assertiveness Training, Test Anxiety Management, College Survival Skills, and other areas related to the development of life skills.

For the entering student, the Center conducts placement tests and coordinates academic advising. This process allows the new student to select courses which are consistent with his/her own interests and academic background.

The College Level Examination Program (CLEP) is also administered through the Counseling Center. Through CLEP, students may earn college credit for a variety of subjects about which they have gained special knowledge outside of college. This knowledge may have been acquired through correspondence and university extension courses, educational television, on-the-job training, and/or independent study. CLEP examinations provide a means whereby the well-studied student may demonstrate "what he/she knows," saving considerable time and money. For specific information on CNC's CLEP acceptance policy, test dates and fees, contact the CLEP Administrator in the Center.

Another facet of Counseling Center services are the vocational interests, personality, and ability tests which are offered and interpreted by the professional staff. Information booklets on such tests as GRE, GMAT, LSAT, etc., are also available. Students may make an appointment with a counselor either by stopping by the Center in Wingfield Hall, room 116, or by calling 599-7046. Appoint-

ments are usually available on the same day. Hours are Monday through Thursday, 8 a.m. to 7 p.m., and Friday, 8 a.m. to 4 p.m., during the academic year.



Financial Assistance

General Information

The purpose of the College's financial aid program is to provide assistance to qualified students who without such aid would be unable to attend. Aid is awarded on the basis of need as determined through the College Scholarship Service (CSS) and Basic Grants (BEOG) analysis systems. Colleges participating in these programs subscribe to the principle that the amount of financial assistance provided by the institution should be viewed as supplementary to the efforts of the family. Student applications are analyzed on an individual basis to determine financial need. Financial need is the difference between the student's cost of education and the expected family contribution. Awards are contingent upon the availability of funds which are prorated among eligible students. Students with the greatest demonstrated need are

awarded the most aid. Applications supported by financial analysis reports from CSS and BEOG which are received by May 1 are given first consideration. Late applicants will be considered as funds permit. Students who have questions concerning their application or award should contact the Financial Aid Office.

Types of aid include scholarships or grants, loans, and employment. Because all scholarships are provided by the Commonwealth of Virginia or by local organizations or individuals, they can be offered only to Virginia residents. Loans, grants, and employment are available to eligible out-of-state students. In order to be eligible for any Virginia scholarship or loan program, an applicant with an established need is required to be accepted for enrollment as a full-time classified student (minimum 12 hours). In the case of the Federal Programs, the student must be enrolled for at least half-time (minimum six hours).

Christopher Newport College does not discriminate with regard to race, color, religion, sex, age, ethnic group, national origin, handicap, or political affiliation.

Estimated Costs

The College reserves the right to adjust tuition and other charges because of rising costs and other conditions. The estimated costs for an academic year (two semesters) for the average commuter student are as follows:

Tuition and Fees *	\$ 790
Books and Supplies	175
Maintenance Allowance	850
Personal	400
Transportation	400
Total Estimated Costs	\$2615

* Add \$300 for out-of-state students

Application Procedures

A single basic application for financial aid filed with the College and supported by a need analysis report from the College Scholarship Service (CSS) places a needy student in consideration for each program administered by the College. Starting with the 1978-79 academic year, applicants who are also applying for Federal and State administered programs may do so by making appropriate en-

tries in the Virginia Financial Aid Form (VFAP), the same CSS form used in the need analysis for the College. Therefore, separate applications for the Basic Educational Opportunity Grant (BEOG) and the Virginia College Scholarship Assistance Program (CSAP) are no longer required. Students who are eligible to apply for BEOG and CSAP must apply for these programs when applying for other financial assistance at Christopher Newport.

Any classified student or prospective classified student who will be taking at least six semester hours may apply for financial aid. No application can be acted upon until the student is admitted to the College. Applications and CSS need analysis reports for the College administered programs for the academic year should be received by the College no later than May 1 so that the student may receive full consideration. Late applicants will be considered as funds permit. Deadlines for the spring semester and summer sessions are November 15 and April 15 respectively; awards are contingent upon availability of funds.

The Virginia Financial Aid Form (VFAP) must be filed by March 31 in order to apply to the State Council for the Virginia CSAP Program. Virginia students who are also applying for the BEOG and College administered programs should make the appropriate entries in this same VFAP. Be sure to indicate Christopher Newport College (CSS Code Number 5128) in the "Institutions and Programs to Receive This FAF" section of the VFAP.

The necessary forms may be obtained from the College's Financial Aid Office. The Virginia Financial Aid Form (VFAP) may also be obtained from most high school counseling offices, from the State Council of Higher Education, 700 Fidelity Building, Ninth and Main Streets, Richmond, Virginia 23219, and from the College Scholarship Service, Box 176, Princeton, New Jersey 08540 (for the FAF). Non-Virginia residents may use the VFAP by crossing out the Virginia Council of Higher Education entry in the "Institutions and Programs to Receive This FAF" section, or they may use the FAF.

Good Standing

The recipient of financial aid may re-apply for assistance provided (s)he remains in good

standing and need is re-established annually. It should be understood that financial aid awards are conditional on the student maintaining good standing in the course of study (s)he is pursuing in accordance with the standards and practices of CNC. Good standing means that (1) the student is eligible to continue in attendance at CNC and (2) the student is making satisfactory progress toward the completion of his course of study. Students who are suspended for academic reasons will not be considered as making satisfactory progress and will not be eligible for consideration for financial aid awards immediately upon their re-enrollment. However, if the student is able to re-establish satisfactory progress by the end of the first term following re-enrollment, payment may be made retroactively for that term. If the student does not re-establish satisfactory progress by the end of the first term following re-enrollment, the student will not be eligible to receive financial aid for that term.

Disbursement

Except in those cases where a student's status changes, i.e. changes in number of hours, domiciliary status, etc., awards will be disbursed equally over the course of the two academic semesters and after confirmation of tuition and fee charges each semester by the Registrar. Payment will be made by check or credit to the student's account, depending on the type of assistance. These assistances must first be used to pay the required college charges outstanding at the time. To receive financial aid payments, a student must not owe a refund on a grant or be in default on a loan.

If you require financial assistance to attend Christopher Newport College, do not hesitate to apply. For the necessary forms and further information contact:

Director of Financial Aid
Christopher Newport College
P.O. Box 6070
Newport News, Virginia 23606
(804) 599-7170

- or -

visit the Captain John Smith Library, Room 121.

Grants and Scholarships

Basic Educational Opportunity Grants (BEOG)

The purpose of the Basic Grant Program is to provide eligible students with a "foundation" of financial aid. Therefore, all students who intend to apply for other forms of aid at CNC must apply for BEOG. There is no charge for applying to the BEOG Program. Authorized under the 1972 Higher Education Act, the Basic Grant award is a grant and does not require repayment. It is estimated that grants to qualified undergraduate students will range between \$50 and \$1600 during the 1978-79 academic year, depending on family contribution, and will not exceed one-half the cost of attendance at their institution. Application should be made by completing the proper entries in the Virginia Financial Aid Form (VFAP). Non-Virginia students may use the FAF or if applying for only the BEOG, they may submit a separate BEOG Application. The student will receive a Student Eligibility Report (SER) directly from the BEOG Program approximately six weeks after application, which he must submit to the College in order to receive an award of any kind.

Supplemental Educational Opportunity Grants (SEOG)

A federal aid program that provides assistance to students with exceptional need. The grants for undergraduate students enrolled at least half-time range from \$200 to \$1500 a year up to \$4000 for a four year program. If you are selected for an SEOG, you will receive other assistance at least equal to the SEOG.

Law Enforcement Education Program (LEEP) Grants

Available to eligible law enforcement officers for part- or full-time study in law enforcement. The application process consists of an interview with the Director of the Criminal Justice Program followed by completion of the LEEP Student Certification and Note.

Virginia State Student (Undergraduate) Scholarships

The General Assembly has allocated funds to the College for scholarships to eligible full-time students who are Virginia residents.

College Scholarship Assistance Program (CSAP)

A state need-based program for full-time Virginia students in state supported colleges. Application is made by completing the proper entries in the VFAP. Virginia students who are applying for other aid from the College must apply for the CSAP. The applicant will receive a notification of eligibility directly from the State Council which (s)he should provide to the Business Office.

Private Scholarships

Made available by the following private donors in varying amounts, are based on need and other special features prescribed by the donor.

Coats and Clark, Inc. Scholarship
Tom Fucella Memorial Scholarship
Daisy Garland and Sidney Harmon Scholarship Foundation
Hampton-Newport News-York County City Panhellenic Scholarship
Hatten Memorial Fund
Leon Hodge Memorial Scholarship Fund
Thomas J. Hundley Award
Dean William H. Polis Memorial Scholarship
The Remco Office Equipment Co., Inc. Business Education/Distributive Education Scholarship
Tenneco Foundation Scholarships
Robert M. Usry Scholarship Foundation
The Helen Mugler White Scholarship

Loans and Employment

National Direct Student Loan (NDSL)

The National Direct Student Loan is a long-term, low-interest (3%) loan program for needy students who are enrolled at least half-time. You may borrow up to a total of: (a) \$2500 if you have completed less than two years of a program leading to a bachelor's degree; (b) \$5000 if you are an undergraduate student who has already completed two years of study toward a bachelor's degree. (This total includes any amount you borrowed under NDSL for your first two years of study.)

Students accepting NDSL assistance should be aware of their repayment responsibilities. Interest at 3% accrues from the beginning of the repayment period. Repayment of principal begins nine months after the student graduates or leaves school for other reasons and may be extended over a period not to exceed ten years. Repayments are quarterly at a rate of no less than \$30 per month. No payments are required for up to three years while you serve in the Armed Forces, Peace Corps, or Vista. A loan repayment schedule will be attached to and become a part of the promissory note that will be signed at the time of disbursement.

Virginia State Student Loan

The General Assembly has allocated funds to the College for loans to eligible full-time students who are Virginia residents. Students should be aware of their repayment responsibilities for these loans. Repayment begins nine months after the student has either graduated or ceases to carry, at an institution of higher education, at least one half the full-time academic workload. Minimum payments at a rate of not less than \$30 a month are required quarterly thereafter until the loan is repaid in full. Interest at 3% accrues from the beginning of the repayment period.

Guaranteed Student Loan Program (GSLP)

Administered by the State Education Assistance Authority. Students who are Virginia residents apply directly to participating banks and other lending institutions. The commercial lending institution, not the College, makes the loan directly to students, not to their parents. The maximum loan is \$2500 a year, up to a total of \$7500 for undergraduate study. Students from families whose income, after certain adjustments, is under \$25,000 may have the interest on the loan paid for them by the federal government while they are taking at least a half-time college workload. Nine months after the student graduates or leaves college for other reasons, repayment of principal and interest at 7% must begin. The key factor for the student in obtaining a Guaranteed Student Loan is in his finding a lender who is willing to make the loan. Prospective non-Virginia borrowers should contact participating lending institutions in their home localities. Applications for the

GSL are obtained from the prospective private lenders.

Virginia Education Loan Authority (VELA)

VELA is a new program created by the State to provide a source of loans to eligible Virginia students who are unable to secure loans from private lenders. Students should consider the VELA program as a supplemental form of financial aid and a last alternative source of loan funds. Additional information is available in the Financial Aid Office.

The John Stephen Rasmussen Memorial Fund

This emergency loan fund was established by the community in 1972 in memory of John Stephen Rasmussen, a 21 year old student who lost his life in a fire while in the act of saving others. He was posthumously awarded a Carnegie Medal. Students may borrow, interest free, sums (funds permitting) for a period not to exceed thirty days. Applicant should have student Identification Card available when applying to the Business Office.

Emergency Loan Fund

An emergency loan fund was established in 1967 by the Sophomore Class in honor of President J. C. Windsor. Students may borrow, interest free, sums (funds permitting) for a period not to exceed thirty days. Applicant should have student Identification Card available when applying to the Business Office.

College Work-Study Program (CWSP)

The College Work-Study Program provides jobs for students, especially those from low-income families, who must earn a part of their educational expenses. Students must be enrolled on at least a half-time basis and will be expected to perform the work that is agreed upon when accepting the College Work-Study award. Students will normally not work more than an average of 20 hours per week while classes are in session and not more than 40 hours per week during other periods of time. The Financial Aid Office will notify Work-Study recipients of their agency of employment by the start of the academic year or semester. The Business Office disburses student employment checks by the 15th of each month for work performed during the previ-

ous month. It is the student's responsibility to insure that a properly completed Work-Study time record sheet is submitted to the Financial Aid Office by the end of the last working day of a month.

Students interested in types of employment other than Work-Study should contact the College Placement Office.

Student Responsibilities

1. You are responsible for reading and understanding all forms that you are asked to sign and for keeping copies of them.
2. You must complete all application and financial forms accurately and submit them on time to the right place.
3. You must provide correct information. In most instances, misreporting information on financial aid application forms is a violation of law and may be considered a criminal offense which could result in indictment under the U.S. Criminal Code.
4. You must return all additional documentation, verification, corrections, and/or new information requested by either the agencies to which you submitted your financial information or the Financial Aid Office.
5. You must accept responsibility for all agreements that you sign.
6. You must perform the work that is agreed upon in accepting a College Work-Study award.
7. You should be aware of the College's refund policy as contained in such publications as the College Catalog and Registration News.
8. You are responsible for notifying the Financial Aid Office if:
 - a. any change in the number of credit hours for which you are enrolled

- b. any name, address, or telephone number change
- c. a change in marital status or number of dependents in family
- d. a change in financial status
- e. withdrawal from the College

9. You are responsible for the affidavit in which you affirm that any financial aid funds received will be used solely for expenses related to attendance at CNC.

Career Placement

Christopher Newport College's Office of Career Planning and Placement provides special assistance for both students and alumni who are uncertain as to their future careers and for those students and alumni who have decided on a career that is satisfactory to their needs.

Typically, there are eleven (11) Career Programs held during the academic year to allow students and graduates to ask questions of persons who are knowledgeable in their area of employment. In addition, retirees from various areas of employment are also available to answer questions. The Placement Office staff also assists students and alumni by arranging appointments to see prospective employers for either part-time or full-time jobs.

The Office of Career Planning and Placement maintains an up to date library with such publications as the College Placement Annual, Peterson's Guides for Graduate School, books on career planning, and business, educational and governmental bulletins. The office also maintains a microfiche reader to provide students with information regarding government employment opportunities throughout the State of Virginia.

The Office of Career Planning and Placement is in the Campus Center, Room 208.

Continuing Studies

The Office of Continuing Studies is responsible for the management of the College's course offerings in the evenings, or weekends, at off-campus locations, and during the summer months. In addition, it designs and manages *Voyages for Adult Learners*, the College's non-credit adult education program, and administers all conferences and seminars sponsored by the College.

Course Offerings in the Evenings and on Weekends

The flexibility described in the College's *Aims and Purposes* is realized in the evening curriculum, which opens the College's curriculum and degree programs (associate and baccalaureate) to those residents of the Lower Peninsula for whom normal scheduling of classes would make attendance difficult or impossible. The evening curriculum begins at 4:00 p.m. with the bulk of courses starting at 7:00 p.m. and operates Mondays through Thursdays. The weekend courses normally are limited to Saturday mornings but occasionally involve all day Saturday commitments where the course is scheduled to meet on alternate Saturdays.

Since a student may enroll in the evening curriculum as a classified or an unclassified student, he or she must first determine which classification is the more suitable to his or her aims and purposes.

Courses Off-Campus

Christopher Newport College offers courses throughout the Tidewater Region. The College does this as a special service to all of its students as it seeks to expand its educational capability by using the best learning resources of the Tidewater—its museums, laboratories, etc. In addition, the College seeks via extension to provide educational opportunities to Tidewater residents who find on-campus attendance extremely difficult or even impossible. In some instances, this extension provides degree earning possibilities.

Two special audiences served by the off-campus program are the military and criminal justice personnel. The College maintains

programs at Langley Air Force Base, Fort Eustis, Portsmouth Public Library, Virginia Beach Fire Department and Louise Obici Hospital.

All students attending off-campus classes are screened and admitted to the College in the same way as on-campus students. Prospective students desiring admission should follow procedures outlined in the College's Catalogue.

Courses Offered During the Summer:

The Summer Session, which extends the College's academic resources to students who desire to study formally during all or part of the summer, is an integral part of the educational program of the College. The Summer Session is divided into one three week session, two four and one half week sessions, and one ten week session. Offering courses both day and evening, the Session begins in mid-May and concludes in mid-August. The Summer Session catalogue is published annually on April 1. That catalogue contains full information on admissions, registration, courses and schedules.

Voyages for Adult Learners

Using as its motto Toynbee's "Civilization is a movement and not a condition, a voyage and not a harbor," the College's continuing adult education program is an opportunity for adults who would like to gather together weekly to talk and to play, to develop mind and body. The program is divided into four curricula categories: Adult Liberal Learning, Leisure Skills Development, Personal and Family Development, and Professional and Career Development.

Formal admission to the College is not required for participation in *Voyages*.

Three times per year the College issues a bulletin describing the curriculum of *Voyages*.

Academic Policies and Regulations

The academic policies stated hereafter apply to all students who register at Christopher Newport College.

Program Planning

Prior to registration for classes, the Counseling Center administers several placement tests to freshmen and new transfer students. Each freshman and unclassified student then meets with a counselor to discuss the results of these tests and to plan a program for the coming semester. Other students are assigned to faculty advisors who are available for academic counseling. Any student may arrange for an individual conference with a faculty advisor or with any of the counselors. Students currently enrolled should plan their programs for the following semester with their faculty advisors in the spring or late fall.

Full-Time and Part-Time Students

The normal full-time student load includes a minimum of twelve credits and a maximum of seventeen credits, fifteen credits being considered a normal full-time load. Full-time students are expected to carry this load if possible. A student is classified as "part-time" if during any semester he or she is registered for eleven credits or less. Any student may elect to be a part-time student if circumstances demand it. In addition, the College may either require or counsel a student to carry a part-time load for academic or other reasons.

Overload Schedule

With the written consent of his or her advisor, a student may carry eighteen semester credits in a semester or fifteen semester credits in the summer session. Any student desiring to carry more than eighteen semester credits in a semester or fifteen semester credits in a summer session must petition the Committee on Academic Status before registration. This petition must be

submitted in writing to the Registrar. The Committee may grant permission to carry such an overload to the exceptionally able student or to a student with special circumstances.

Registration For Classes

The College has established a preregistration procedure for the fall and spring semesters and the summer session. This procedure is published prior to each semester in time for students to take advantage of this option. The student who pre-registers for the fall semester must pay all tuition and fees or make other arrangements with the business office by the announced date in August; the student who pre-registers for the spring semester must complete all financial arrangements with the College by the announced date in January in order to reserve class spaces. The student who enrolls only in evening classes and wishes to pre-register is subject to the above regulations concerning tuition and fees.

The student who registers early and completes all financial arrangements with the College by the prescribed time is not required to be present on the designated days for general registration and needs only to begin his or her classes at the designated times. Freshmen and transfer students are expected to attend orientation prior to the designated days for general registration.

The student who wishes to enroll in classes but did not preregister must be present on the designated days for general registration (see the College Calendar for the exact date). A student may register at another time only with the permission of the Registrar. All financial arrangements must be completed before registration is valid.

Changes in Registration

After registering for a program of courses, whether in day or evening classes, the student can make course changes only through application to the Registrar. The change is recorded on the student's registration card, and the student's instructors are notified. Unless a course change is made in this manner, it has no official standing and will not be recognized as valid by the College.

Changes During the Add/Drop Period

Registration is normally open for approximately five academic days at the beginning of each semester. During this time, a student may add or drop courses or make schedule changes. No schedule changes may be made after this period (see the College Calendar for exact date). Courses dropped during the add/drop period do not become part of the student's permanent record.

Changes During The Drop Period

No courses may be added after the add/drop period, but courses may be dropped for justifiable reasons. A "Schedule Change" form must be obtained from the Registrar and signed by the student's advisor and instructor. For a period of approximately nine weeks (see College Calendar for exact date), a student may drop a course without grade penalty. The notation "W" will be made on the permanent record card. After the drop date, a student may drop a course under these conditions: (1) if the student is failing the course, he or she may drop it with a grade of F; (2) if the student is passing the course and has both the permission of his or her advisor and instructor, the grade of "W" will be awarded.

No student may drop a course after the last day of classes before the examination period (see the College Calendar for exact date).

Late Registration Fee

A non-refundable fee of \$15.00 will be charged each student who registers subsequent to the regular scheduled registration period. Registration after these dates will be considered late registration and subject to the late registration fee.

Auditing Class

A student may audit a course with the approval of his or her advisor if class size permits. An auditing fee of \$26.00 for each semester credit is charged. The student registered on an audit basis is subject to attendance regulations as specified by the instructor, but is not required to take tests or the final examination. With the instructor's permission, the student may do any of the required assignments. The student who audits a course

receives no grade, but his or her permanent record card will indicate "Audit" for that class. A change from "Audit" to "Credit" may be made only during the add/drop period. Out-of-State students must make the necessary financial arrangements before the change is effective. A change from "Credit" to "Audit" cannot be made after the official date for dropping courses without grade penalty.

Absence From Classes

The College expects that students will regularly attend all of their scheduled classes. An educational system based largely upon classroom instruction and analytical discussion depends upon the faithful attendance of all students in the course. Irregular class attendance detracts from the student's learning and prevents participation in the important intellectual exchanges that occur among students and instructors. Therefore, the College expects and encourages regular attendance. The College does not, however, establish specific attendance policies, for this is considered the right of each instructor. A student who is dropped from a course upon the instructor's recommendation because of excessive absences will receive a grade of F. If excessive absences are caused by an extreme emergency and the student is penalized by the instructor, the student may appeal to the Committee on Academic Status.

Other regulations are as follows:

1. If a student misses a class meeting, it is his or her responsibility to cover the missed material.
2. Instructors may differentiate between excused and unexcused absences and authorize make-up tests when appropriate.
3. Attendance regulations, as specified by the instructor, apply to students who are auditing a course. The instructor has the right to certify on the student's academic transcript that the auditor's attendance was "not regular."

Official Withdrawal From The College

As defined by the College, "Withdrawal" means that the student ceases to attend all classes and is no longer considered enrolled in

the College. Any student who desires to withdraw from the College should do so through application to the Registrar. The withdrawal is recorded on the student's permanent record card, and the student's instructors are notified. Unless a withdrawal is made in this manner, it has no official standing and will not be recognized as valid by the College. No student may withdraw after the last day of classes before the examination period. If a student withdraws from the College prior to the deadline following mid-semester (see the College Calendar for exact date), the grade notation W will be entered for each course taken. If a student withdraws after the deadline, the grade notation F will be entered for each course which the student was failing at the time of withdrawal, and a W if approved by both the student's instructor and advisor.

Medical Withdrawal

A student who wishes to withdraw from the College for medical reasons must have a letter sent to the Registrar by a physician testifying that the student is incapable of completing his academic work because of medical reasons. Upon receipt of that letter all grades for the semester in question will be noted as "W" on the student's transcript.

Unofficial Withdrawal

A student who withdraws from the College without notifying the Registrar will receive a grade of F in each course taken. The notation "Grade of F assigned because of unofficial withdrawal" will be made on the permanent record card.

Readmission After Withdrawal

A student who withdraws may seek readmission for any semester, provided he or she is in good standing, by writing to the Dean of Admissions for an application for readmission.

Forgiveness Policy

A student who has not taken any courses at the College for a period of at least three years, may apply to the Registrar, acting for the Academic Status Committee, to have his

entire past college record at CNC forgiven. The record of such courses will remain on the student's transcript, but it will be noted that these courses have been forgiven. Forgiven courses will not fulfill any academic requirements, nor will they be computed in the new GPA.

Examinations

The examinations given at the end of each semester take place at times announced at least two weeks in advance of the first scheduled examination. Students are required to take all of their examinations at the times scheduled unless excused as noted below (see section *Absence From Examinations*). The College does not authorize re-examination. No changes will be permitted unless conflicts occur or unless the student has examinations scheduled in four consecutive periods. Applications for changes in the schedule for the above reasons should be made to the Registrar prior to the last day of classes before the examination period begins.

Absence From An Examination

A student may request to be excused from taking an examination at the scheduled time by presenting a significant reason for the expected absence to the instructor before the examination. An excuse on the grounds of illness will be accepted when it is verified by a physician and received by the Registrar. The instructor should be notified as soon as possible if illness or any other emergency causes a student to be absent from an examination. If the instructor cannot be contacted, the student should notify the Registrar.

Incomplete Or Absence From the Final Examination

An I is given when the student has postponed, with the consent of the instructor, the completion of required work or when the student was absent from the final examination because of illness or any other emergency. If the postponed work has not been completed by the end of the next semester, the I automatically becomes an F. Unless a deferred examination is permitted by the

Committee on Academic Status, an I given as a result of absence from a final examination automatically becomes an F at the end of the next semester.

Deferred Examinations

A deferred examination is provided for a student who has been excused from taking an examination at the scheduled time. The student would arrange with his or her instructor to make up the examination as soon as possible. Except under very exceptional circumstances, the student is not permitted to postpone the taking of a deferred examination beyond the first occasion provided. In no case will permission to take a deferred examination be extended beyond a year from the time of the original examination from which the student was absent.

System Of Grading

Grades are assigned according to the letter system and carry the following grade point values.

Grade Symbol Grade Point, Value and Meaning per, Semester Credit, Hour

A -	Excellent	4
B -	Above Average	3
C -	Average	2
D -	Minimum passing	1
F -	Failed to meet minimum requirements	0
I -	Incomplete. Not computed in cumulative average but converts to F if not made up within prescribed time	
P -	Pass. Not computed in cumulative average	
R -	Only for Basic Studies Courses. Student should repeat course. Not computed in cumulative average.	
W -	Withdrew within prescribed time or passing when dropped prior to last day of classes. Not computed in cumulative average.	
Au -	Audited Course. Not computed in cumulative average. No degree credit.	

Grade Point Average

The grade point average is computed by dividing the total number of academic hours carried into the total number of grade points earned.

Grades For Repeated Courses

A course in which a grade of D or F has been earned may be retaken with the permission of the student's advisor. The original grade, grade points, and a new grade and grade points will be entered on the student's permanent record. Only the grade for the most recent enrollment and its credits and grade points will be counted toward the degree. Credits earned for the course maybe counted only once toward the degree. The cumulative grade point average will be determined in cases of a retaken course by including only hours carried and grade points earned in the most recent enrollment in the course. Required or distribution courses in which an F has been earned may be repeated no more than twice (for a total of no more than three enrollments). Other courses in which an F has been earned may be repeated only once (no more than two enrollments).

Pass-Fail

Seniors may take one elective course each semester, distribution and major courses not included, for a maximum of two courses, on a pass-fail basis. The student must declare his or her intention of taking a course on a "pass-fail" basis by the official date for dropping a course without grade penalty. A passing grade will count toward graduation but will not be used in determining the grade point average.

Grade Reports

A grade report is sent at the end of the semester to each student and (where applicable) to his or her parents or guardian. In addition, the mid-semester grade report sent to every freshman indicates the progress in each course at the point. A mid-semester grade report is not sent to an unclassified student. Mid-semester grades are not recorded on the student's permanent record card.

Dean's Academic Honor List

A student who in any semester has been enrolled in at least 12 credit hours and has earned no grade below a C in academic subjects and who makes a grade point average of at least 3.25 is placed on the Dean's Academic Honor List for the following semester.

Continuance In College

Through an instructional program supplemented by counseling and faculty advising, the College attempts to give students every encouragement to maintain a satisfactory level of achievement. The College expects the student to make reasonable academic progress. Unless the student demonstrates the incentive and ability to meet the minimum scholastic requirements, the College cannot justify the student's continuance at the College.



Minimum Standards For Continuance

While evaluation of academic progress is made at the end of each semester, the evaluation of the student's academic record is generally not made until the completion of twelve credit hours. The unclassified student will have his or her academic record evaluated at intervals of twelve semester hours, this evaluation being done in the best interest of the student and in consideration of the student's stated goals. The student who achieves less than the minimum standard as stated below will be considered by the Committee on Academic Status either for suspension or probation. The student who achieves the minimum standard but who does not make reasonable progress in any given semester will receive a written warning from the Committee on Academic Status.

Number of Credit Hours Attempted	Minimum Required Percentage of Hours Passed	Minimum Required Overall Grade Point Average
12-15	50%	1.00
16-24	60%	1.25
25-36	66%	1.50
37-48	70%	1.66
49-60	74%	1.70
61-72	80%	1.75
73-90	85%	1.80
90 and above	85%	1.85 or better

In addition to meeting this minimum standard of performance, the student is expected to maintain each semester at least a 2.0 average in his or her major field of study. A student who falls below this average in his or her major will be placed on probation.

Transfer students will be expected to meet the minimum requirements for the total credit hours attempted at the College and the total number of credit hours accepted by the College as transferable from the previous college(s) attended. Transfer students who make little or no progress toward graduation after fifteen credit hours at the College will be considered for academic warning, academic probation, or suspension.

A student who is not profiting from his or her stay at the College or whose influence is

considered detrimental to the best interests of the College may be required to withdraw.

Academic Warning

Any student who has earned a minimum standard for continuance but who has not made reasonable progress in any given semester will be issued a letter of academic warning. This letter will review the student's progress to date and may require the student to limit his or her academic load. No notation will be made on the permanent record card.

Probation

Any student approaching the minimum standards for continuance will be considered for probation. The student on probation may register for no more than four courses while on probation, and the notation "Academic Probation" will be placed on the permanent record card. If a student on probation pre-registers for more than four courses, the pre-registration will be cancelled, and the student must return to his or her counselor or faculty advisor for a new form.

The Committee will continue on probation any student who is making marked progress toward meeting the minimum requirement, but only under unusual circumstances will the Committee allow a student to remain on academic probation for more than two consecutive semesters. If at the end of two semesters the student has not met the minimum standard for the number of hours carried, the student may be suspended.

Change Of Status

If the Committee on Academic Status concludes that a classified student is making little progress toward a degree, it may change the student's status from classified to unclassified. This action will enable a student to enroll as an unclassified student in certain courses of interest to the student. A statement to this effect will be entered on the permanent record card.

Suspension

The student who is suspended may not register for credit in any classes at the College

except with the consent of the Committee on Academic Status. The notation "Academic Suspension" is placed on the permanent record card. If a student suspended from the College is permitted by another college to take courses at that college, he or she should realize that credit hours earned while not in good standing may not be acceptable as credit at Christopher Newport College.

Reinstatement Procedures

After Suspension

Any suspended student who wishes to reenter the College after at least one semester (excluding the summer session) has elapsed must apply to the Committee on Academic Status to be reinstated in good standing. Most colleges will not consider for admission a student who is not in good standing at his or her former college; therefore, reinstatement at Christopher Newport College should be sought before application is made to another college. Students who have been suspended twice may apply for reinstatement, but it must be pointed out that the Committee often does not approve the reinstatement of such a student. A reinstated student is not automatically readmitted to the College. The Committee may in fact recommend that the student not be readmitted to Christopher Newport College. But a reinstated student may seek admission to another college. In order to apply for reinstatement, the student should contact the Office of the Registrar for information. The deadlines for receipt of reinstatement requests are as follows.

For readmission to the summer session	May 1
For readmission to the fall semester	May 1 or August 1
For readmission to the spring semester	December 1

Academic Dismissal

A student who again falls below the minimum academic standards after two suspensions will be academically dismissed. The notation "Academic Dismissal" will be placed on the permanent record card. Students dismissed from Christopher Newport College

may, after a minimum of three years, apply for admission to the College. Such persons will be treated as new students and their previous records at Christopher Newport College will be considered as part of the relevant materials for the application to the College.

Appeals To The Committee On Academic Status

Any student has the right to appeal for reconsideration of a decision made by the Committee. Such an appeal should be made in writing and should indicate any circumstances which may affect the decision. Appeals may be addressed to the Secretary of the Committee on Academic Status.

Classification Of Students

Students, both full-time and part-time, are classified as follows.

Freshman	from 1 to 23 credits
Sophomore	24 to 54 credits
Junior	55 to 85 credits
Senior	86 and above

Declaration of Major

A student should declare a major field not later than the end of the sophomore year or the completion of fifty-four credits. A declaration of major must be filed with the Registrar. Each department reserves the right to approve the student's application to major in the department. Changes in the choice of major may not be made after registration for the first semester of the senior year except with the approval of the Committee on Degrees and the acceptance by the new major department.

Double Major

With the approval of the department chairman concerned, a student may designate a second concurrent major concentration, provided that he or she meets all requirements of both departments, including distribution, supporting, and concentration courses. The appropriate request form should be filed with the Registrar.

Two baccalaureate degrees will not be awarded, but a notation recognizing the completion of the requirements for the second

major will be posted on the student's transcript. In order to have this notation posted, the student must satisfy all requirements of both major programs.

Declaration Of Minor

A student may declare a minor field no later than the first semester of the senior year unless approved by the Committee on Degrees. A declaration of minor must be filed with the Registrar along with a copy of the minor field program as approved by the student's major field advisor and the minor field department chairman.

The minor will include fifteen to twenty-one hours of course work above the 100 level as determined by the department of the minor field. With the approval of the major field advisor and the minor field department chairman, the student may count as many hours in the minor field as necessary to his or her overall program.

Second Baccalaureate Degree

Students who already have a bachelor's degree and wish to become candidates for a second undergraduate degree must earn a minimum of thirty additional semester hours credit in residence before a second degree may be granted. In addition, all distribution requirements and all requirements of the department concerned must be satisfied. Any transfer credit applicable toward the second degree will be determined by the Committee on Degrees.

Permission to become a candidate for the second baccalaureate degree will be granted by the Admissions Committee with concurrent approval of the Chairman of the department in which the student desires to pursue the second degree.

Courses Taken Elsewhere

The Dean of Admissions will evaluate the credits of a student who transfers to the College from another accredited institution and will issue to the student a written statement of transferable credits. Up to a maximum of ninety-two hours of transfer credit will be given for courses which carry a pass-

ing grade and are comparable to courses offered by the colleges similar in aims and purposes to Christopher Newport College. No more than sixty-six credits, however, may be in courses taken in a junior or public community college.

A student may transfer a maximum of twenty-one semester credits in courses representing the application of the arts and sciences, including the playing of an instrument, ceramics, arts and crafts, and the like. No more than sixty semester credits may be applied toward the degree for work completed in extension, special institute, or correspondence courses, or through the College Entrance Examination Board Advanced Placement Program, the College-Level Examination Program, Armed Services schools and experience, or departmental placement examinations. Students already at the College who want to take for credit courses offered by another institution must first receive written permission from the Vice-President of Academic Affairs.

No more than thirty semester credits may be applied toward the Bachelor of Science in Governmental Administration degree for Law Enforcement, Administration of Justice, and Fire Science courses completed at two-year institutions. No more than sixteen semester credits in the above categories may be applied toward either the Bachelor of Arts or the Bachelor of Science degree.

Challenging A Course

Students who have become exceptionally knowledgeable through life experiences in the subject matter of certain courses offered at the College may challenge these courses. The student upon demonstrating proficiency through evaluation procedures established by the individual academic departments may earn credit for each such course. Only those courses which do not appear on his transcript from Christopher Newport College or any other college may be challenged. When a course is challenged successfully, a grade of P (Pass) and the appropriate hours of credit will be entered on the transcript. No entry will be made on the transcript if the challenge is unsuccessful. A student may challenge a par-

ticular course only once.

Students are directed to the brochure on *Procedures on Challenging Courses* available in the Office of Admissions.



Requirements for Degrees

Christopher Newport College is authorized to confer six degrees: The Bachelor of Arts (B.A.) degree, the Bachelor of Science (B.S.) degree, the Bachelor of Science in Business Administration (B.S.B.A.) degree, the Bachelor of Science in Governmental Administration (B.S.G.A.) degree, the Bachelor of Science in Information Science (B.S.I.S.) degree, and the Associate in Liberal Arts (A.A.) degree. (Please note that the A.A. degree is being phased out in the next two years.)

The College offers the B.A. degree in economics, elementary education, English, Fine and Performing Arts (with Concentration in art, music, and theatre), French, history, interdisciplinary studies, international culture and commerce, mathematics, philosophy, political science, psychology, sociology, and Spanish. The B.S. degree is offered in biology, chemistry, interdisciplinary studies, mathematics, and psychology. The College offers the professional B.S. degree in Business Administration (with concentrations in accounting, economics, finance, management, marketing, and real estate) and in Governmental Administration (with specialties in Public Management, Community Planning, Criminal Justice Administration, and Corrections) as well as the interdisciplinary B.S. degree in Information Science.

When a department offers more than one degree, the student is referred to the specific statement of requirements just before the course listings for that department.

The student may choose to fulfill either the general requirements for graduation set forth in the catalog when he or she becomes a classified student in the College or the general requirements in the catalog in effect when he or she graduates. The student must fulfill, however, the concentration requirements in effect when the choice of concentration is declared. A student who leaves the College for a period of one full academic year or more after declaring a major can be required to

meet the concentration requirements in effect at the time he or she reenters.

General Requirements for Graduation

One hundred and twenty semester hours and two semesters of physical education activities are required for graduation. An overall 2.0 grade point average is required.

Each student is expected to plan a curriculum, including distribution, concentration, and elective offerings. Although the college offers every assistance to the student in planning his or her program it is ultimately the responsibility of the student to ensure that his or her program properly fulfills the requirements for the degree sought as set forth in the catalog.

Certain other general requirements must also be fulfilled for graduation:

1. Students must become Classified (candidates for a degree) prior to beginning the last thirty semester credits in their academic program. Application for classification must be filed with the Office of Admissions.
2. The student must achieve a minimum overall grade point average of 2.0 as well as a 2.0 in his or her major field of concentration with no more than two grades of D in the major.
3. At least thirty of the last thirty-six hours, including at least the last twelve hours of the major field, must be taken in residence. A student enrolled in the Servicemember's Opportunity College may fulfill the thirty hours of residency at any time in the course of satisfying his or her degree requirements.
4. At or before the end of the sophomore year (or fourth semester), the student should choose a major field in consultation with an advisor from the field in which the student is interested. A declaration of major must be filed with the Registrar. In accord with the requirements of that major and the student's

interests and career objectives, the student and advisor will establish a well-balanced course of study. The student should refer to the appropriate departmental listing under Courses of Instruction for specific concentration requirements.

5. Of the total number of credits required for graduation:
 - a. The student may present only forty-two total hours in his or her major field but may elect not to include among these hours introductory courses in the major (refer to individual departmental listings for further information). In order to exclude the introductory course, the student must declare to the Registrar an intention to do so before completing ninety-two semester credits.
 - b. The student may present a maximum of three semesters of physical education activities courses toward the degree. Any veteran with 186 or more consecutive days of active duty in the U.S. Armed Forces will receive four hours of physical education activities credit toward his/her degree, thereby fulfilling the College's P.E. requirements.
 - c. The student may present a maximum of twelve credits in any combination of elementary topics (courses numbered 295), intermediate topics (courses numbered 395) and advanced topics (courses numbered 495) in any given field.
 - d. The student may select as electives any academic courses allied to his or her major or of particular interest to the student, provided that all necessary prerequisites have been met.
6. Students must file the "Intent to graduate" form and any request for waiver or substitution of any requirement for graduation with the Registrar according to the following schedule:
 - a. For Spring graduation, no later than the last day of Fall semester
 - b. For Winter graduation, no later than the last day of Summer Session classes.

7. Students will graduate with honors upon completion of their work if certain conditions are met:

Overall Quality Point Average

3.25 Cum Laude

3.50 Magna Cum Laude

3.75 Summa Cum Laude

Further requirements for honors are, a minimum of 60 semester hours residence in academic work at Christopher Newport College, and the entire record, including grades earned at other institutions, will be used to determine the grade point average.



Bachelor of Arts and Bachelor of Science Degrees

Distribution requirements should ordinarily be completed within the first two years or the first sixty hours of work. The range of courses which a student may take to satisfy the distribution requirements is listed below:

English six credits

English 101-102 or English 103-104, or (if approved by the English Department) 101-104 or 103-102 is required of all students unless exempted by the English Department. Recommended placement of each student in 101 or 103 is done on the basis of pre-college verbal scores and education background as well as career interests and potential major.

Foreign Language six to fourteen credits

The student should achieve competence in a foreign language as indicated by satisfactory completion of the 202 course of French, German, Latin or Spanish. Students who want to take a modern language to fulfill this requirement should refer to the Modern Languages and Literatures section for information on placement; students who want to take Latin to fulfill this requirement should refer to the Classical Studies section for similar information.

Humanities six credits

The student may choose any one of the following sequences:

- Classical Civilization 201, 202
- English 201, 202
- English 205, 206
- English 207, 208
- Fine Arts 201, 202
- French 251, 252
- German 251, 252
- Modern Languages 205, 306
- Music 201-202
- Philosophy 201, 202
- Spanish 251, 252
- Theatre 210, 211

Mathematics or Logic four to six credits

The student may choose Philosophy 101-102 or any two of these five courses in

mathematics:

Mathematics 110, 120, 125, 130, 135. If qualified, the student may choose Mathematics 140 alone. At the discretion of the Mathematics Department, the requirement may be satisfied if a student places beyond Mathematics 140 on the placement examination.

Natural Science eight to ten credits

The student may choose one of the following sequences:

- Biology 101-102 (a student who earns an A or B in Biology 101 may be given permission by the department to substitute an upper level laboratory course for Biology 102)
- Chemistry 103-104 and 105-106
- Chemistry 121-122 and 125-126
- Physics 103-104
- Physics 201-202

or any two semester natural science course for non-science majors. A transfer student may satisfy this requirement with eight or ten hours of freshman geology, astronomy, or other laboratory science course that considers one area of science through the full academic year. A two-semester course in a second field will be required for a B.S. degree (see the specific requirements for the appropriate department).

Social Sciences twelve credits

The student may choose any two of the following sequences:

- Economics 201-202
- History 101, 102 or
- History 201, 202
- Political Science 101, 102
- Psychology 201, 202 or 203
- Sociology 200 and any other 200-level sociology course

Physical Education two to four credits

Two semester courses of physical activities are required. A maximum of one additional activities course may be applied toward a degree.

Waiver of Distribution Requirement

A student may waive one of the basic distribution requirements except English 101-102/103-104. This exemption neither affects

prerequisites for courses nor alters departmental requirements. The waiver does not change the total number of credits required for the degree.

Any student exempted for a distribution requirement by the Degrees Committee forfeits the above option. Special exceptions other than the waiver from the basic distribution requirements outlined above may be requested by writing to the Committee on Degrees.



Bachelor of Arts Degree in International Culture and Commerce

The Bachelor of Arts degree in International Culture and Commerce is an interdisciplinary degree utilizing the courses and personnel of the departments of History, Management and Marketing, Accounting and Finance, Economics, Political Science, Geography, English, Anthropology, Psychology, Computer Science, and Modern Languages and Literature. By a carefully planned program of study utilizing these disciplines, the student will develop a multi-faceted program of studies leading to a basic knowledge in international commerce as well as an appropriate regional specialization in which he can function with ease, understanding, and efficiency. The I.C.C. program is administered by the Coordinator of International Culture and Commerce appointed by the Vice-President of Academic Affairs. The coordinator advises all students enrolled in the program to assure them a course of study suited to their talents, needs, and career goals.

Distribution Requirements

The distribution requirements for the Bachelor of Arts degree in International Culture and Commerce are the same as for all Bachelor of Arts degrees awarded by Christopher Newport College.

Curriculum Requirements

Area I. International Culture (21 credits)

History (6 credits)

Hist 319	Europe from 1919 to 1945
Hist 325	20th Century America
Hist 331	Modern Latin America
Hist 342	American Economic Institutions
Hist 343	The Contemporary World
Hist 395	Modern Near East
Hist 411	Modern Russia
Hist 415	Modern Britain
Hist 431	Modern American Diplomatic History
Hist 461	Modern Asia

Political Science - Geography - Economics (6 credits)

Pol Sci 201	Comparative Politics
Pol Sci 321	International Relations
Geog 252	Economic Geography
**Econ 385	Comparative Economic Systems
**Econ 470	International Trade and Finance

Cultural and Behavioral Studies (6 credits)

Eng 206	Survey of World Literature
Anthro 204	Cultural Anthropology
Psych 303	Industrial and Organizational Psychology
Psych 313	Human Relations in Organizations
Soc 200	Introduction to Sociology
Soc 332	Industrial Sociology
Phil 231	Introduction to World Religions

3 additional credits from one area above

** Cannot be selected for credit requirements if Area III.

Business Specialization in Economics

Area II. Business Core (18 credits)

Acct 201-202	Principles of Accounting
Comp. Sci 220	Computer Structure and Programming
Bus 311	Principles of Marketing
Bus 324	Administrative Theory and Practice
* Bus 495	Laws of International Commerce

Area III. Business Specialization (12 credits in any one area below)

Accounting	
Acct 301	Intermediate Accounting I
Acct 302	Intermediate Accounting II
Acct 303	Cost Accounting I
Acct 304	Cost Accounting II
Acct 401	Taxation
Acct 403	Accounting Theory
Acct 405	Auditing

Finance

Finance 323	Financial Management
-------------	----------------------

Finance 421	Principles of Investment
Finance 422	Problems in Financial Management
Finance 423	Management of Financial Institutions
Finance 424	Financial Policy and Strategy
Business 473	Real Estate and Finance
Marketing	
Bus 450	Marketing Management
Bus 452	Marketing Research
Bus 453	Promotion Management
Bus 454	Consumer Behavior
* Bus 458	International Marketing

Management

Bus 400	Organizational Theory
Bus 412	Personnel Management
Bus 418	Business Policy and Strategy
Acct 410	Managerial Accounting
Econ 490	Managerial Economics

Economics

Econ 301	Money and Banking
Econ 303	Intermediate Economic Analysis
Econ 304	Intermediate Economic Analysis
Econ 385	Comparative Economic Systems
Econ 470	International Trade and Finance

* New courses to be added to curriculum

Area IV. Modern Foreign Language (3-17 credits)

Each student is required to complete through the intermediate sequence courses, by course work or by testing, in French, German, or Spanish. An upper level conversation or civilization course in the language is also required. In addition, it is strongly recommended that each student complete additional language courses.

Area V. Practicum (6 credits)

Each student will receive on-the-job experiences through working with a company or organization which is engaged in international trade. Standards of training experience will be maintained by the College. At the discretion of the Coordinator, a senior-level

research paper may be substituted.
Sample Program (integrating distribution requirements, prerequisites, and concentration requirements)

Course	Hours
Freshman Year	
Eng 101-102 or 103-104	6
Laboratory Science	8
Hist 101-102	6
Area IV (For. Lang.) requirements ¹	6-8
Physical Education	4
	30-32

Sophomore Year	
Area I (Inter. Cult.) ² & Humanities requirements	6
Area I prerequisites	6
Soc. Sci. requirements (Pol. Sci. 101-102 or Psych 201-202 or Econ 201-202 or Soc 200 and any other 200 level Sociology course)	6
Area IV (For. Lang.) requirements or electives	6
Mathematics or Philosophy	6
	30

Junior Year	
Area I (Inter. Cult.) requirements ²	15
Area II (Bus.) requirements ⁴	15
Area IV (For. Lang.) requirement ² or elective	3
	33

Senior Year	
Area I (Inter. Cult.) requirements ²	6
Area III (Bus. Spec.) requirements ⁴	15
Area V (Practicum) requirements ²	6
Electives	3-6
	30-33

¹Area IV requires 17 hours of French, Spanish, or German.

²Area I (International Culture) requires 21 hours distributed as follows.

- History - 6 credits
- Political Science-Geography-Economics - 6 credits
- Cultural and Behavioral Studies - 6 credits
- Elective from above - 3 credits

³Area II (Business) requires 18 hours distributed as follows.

- Acct 201 & 202 - 6 credits
- Comp. Sci. 220 - 3 credits
- Bus. 311 - 3 credits
- Bus. 324 - 3 credits
- Bus. 495 - 3 credits

⁴Area III (Business Specialization) requires 12 hours from one of the following areas.

- Accounting
- Finance
- Marketing
- Management
- Economics

To be arranged through Coordinator of I.C.C.

Bachelor of Science Degree in Information Science Information Science is an undergraduate professional program leading to an interdisciplinary bachelor of science degree. The curriculum consists of courses chosen from the fields of business, computer science, economics, mathematics, and psychology, with primary emphasis in the field of computer science. The program is designed to provide the student with a broad background appropriate for a computer-oriented career, such as business or scientific programming, system programming, or systems analysis. With careful selection of electives, this program can prepare a student for graduate work in computer science or related disciplines.

Distribution Requirements

Distribution requirements should be completed within the first two years or first sixty hours of work. The same waiver of distribution requirements described under Bachelor of Arts and Bachelor of Science Degrees applies for an Information Science degree. Note those courses under core requirements which will also satisfy the distribution requirements. The range of courses which satisfy the distribution requirements is listed below.

Humanities Twelve credits

The student must complete English 101-102 or 103-104. For the remaining require-

ment, the student may select any six or eight credit humanities sequence or a combination of one 200-level English or other humanities courses and Speech 201.

Mathematics three credits

The student must take mathematics 130. Through advanced placement, the student may offer Mathematics 140 to satisfy this requirement.

Natural Science eight to ten credits

The student may choose one of the following sequences.

Biology 101-102 (a student who earns an A or B in Biology 101 may be given permission by the department to substitute an upper-level laboratory course for Biology 102)

Chemistry 103-104 and 105-106

Chemistry 121-122 and 125-126

Physics 103-104

Physics 201-202

or any two semester natural science course for non-science majors. A transfer student may satisfy this requirement with eight or ten hours of freshman geology, astronomy, or other laboratory science course that considers one area of science through the full academic year.

Social Sciences twelve credits

The student may choose one of these six-credit sequences.

Economics 201-202

History 101-102

History 201-202

Political Science 101,102

Psychology 201,202

Sociology 200 and any other

200-level sociology course

In addition, the student must then select six more credits in the social sciences in accord with his or her interests and career objectives.

Physical Education two to four credits

Two semester courses of physical activities are required. A maximum of one additional activities course may be applied toward a degree.

Core Curriculum Requirements

The core requirements consist of fifty-

eight hours in the fields of business, computer science, economics, mathematics, and psychology. These requirements include: Accounting 201-202, Business 324 and two of the following: Business 323, 418, Accounting 410, or Economics 490, Computer Science 220, 240, 430, 440 and two of the following: 310, 330, 340, and 360; Economics 201, 202, Mathematics 125, 140, and 235 or 260; and Psychology 201, 303, 313. Recommended electives include: Accounting 303-304; Business 311; Computer Science 250, 431; Mathematics 240, 320, 380 (Numerical Analysis); and Sociology 432.

A maximum of three grades of D is allowed in core courses, not to exceed two grades of D in a single discipline.

Sample Program for Information Science Majors

Course	Hours
Freshman Year	
English 101-102	6
Math 130, 140	7
Laboratory Sciences	8-10
Social Science	3
Computer Science 220,240	6
Physical Education	4
	34-36

Sophomore Year	
Speech 201	3
Humanities	3
Economics 201-202	6
Math 125	3
Accounting 201-202	6
Computer Science 330,340	6
Psychology 201	3
	30

Junior Year	
Accounting 410	3
Business 324	3
Computer Science 310,360	6
Psychology 303,313	6
Math 235 or 260	3
Electives	9
	30

Senior Year	
Business 418	3
Computer Science 430,440	6
Economics 490	3
Electives	18
	30

Bachelor of Science Degree in Governmental Administration

All students seeking the Bachelor of Science in Governmental Administration degree must complete both distribution and core requirements. Distribution requirements should be completed within the first two years or first sixty hours. All Governmental Administration and Political Science majors must complete Political Science 101 and 102. The range of courses which a student may take to satisfy the distribution requirements is listed below.

English *six credits*

English 101-102 or English 103-104, or (if approved by the English Department) 101-104 or 103-102 is required of all students unless exempted by the English Department. Recommended placement of each student in 101 or 103 is done on the basis of pre-college verbal scores and education background as well as career interests and potential major.

Humanities *six credits*

The student may choose any one of the following sequences:

- Classical Civilization 201, 202
- English 201, 202
- English 205, 206
- English 207, 208
- Fine Arts 201, 202
- French 251, 252
- German 251, 252
- Modern Languages 205, 206
- Music 201, 202
- Philosophy 201, 202
- Spanish 251, 252
- Theatre 210, 211

Mathematics or Logic *four to six credits*

The student may choose Philosophy 101-102 or any two of these four courses in mathematics.

Mathematics 110, 120, 125, 130

If qualified, the student may choose Mathematics 140 alone. At the discretion of the mathematics Department, the requirement may be satisfied if a student places beyond Mathematics 140 on the placement examination.

Computer Science 200-220 *three credits*

or Accounting 201

Natural Science *eight to ten credits*

The student may choose one of the following sequences:

Biology 101-102 (a student who earns an A or B in Biology 101 may be given permission by the department to substitute an upper-level laboratory course for Biology 102)

Chemistry 103-104 and 105-106

Chemistry 121-122 and 125-126

Physics 103-104

Physics 201-202

or any two semester natural science course for non-science majors. A transfer student may satisfy this requirement with eight or ten hours of freshman geology, astronomy, or other laboratory science course that considers one area of science through the full academic year.

Social Sciences *twelve credits*

The student must choose any twelve hours of social science in consultation with his or her advisor.

Physical Education *two to four credits*

Two semester courses of physical activities are required. A maximum of one additional activities course may be applied toward a degree.

Governmental Administration majors may not waive any distribution requirement. Special exceptions from any of the basic distribution requirements outlined above may be requested by writing to the Committee on Degrees.

Core Curriculum Requirements

Courses in the core requirements provide students with the skills needed within each specialty and should be selected in accordance with career interests. Courses selected for core curriculum requirements may not be applied toward the requirements for a specialty. A minimum of nine courses is required. Care should be exercised to ensure that prerequisite courses have been completed.

Administration: Political Science 371

Urban Analysis (select a minimum of 3 courses): Political Science 221, 331, 451, 461; Economics 351; Biology 306. By petition to the Department of Political Science and Governmental Administration students may, at the occasion requires, satisfy this requirement by choosing from the following additional courses: Geography 351, History 434, and Sociology 331.

Normative Analysis (select a minimum of 3 courses): Political Science 357, 358, 359; Philosophy 304, 440.

Quantitative and Research Analysis (select a minimum of two courses, at least one in statistics): Political Science 361, 352; Sociology 391; Math 125; Computer 350; Accounting 202.

Professional Specialties Requirements

The student must select one of the following specialties: Public Management, Community Planning, Criminal Justice Administration, or Corrections. All Governmental Administration majors must complete either Political Science 491 or 499; Political Science 491 is recommended for pre-service students; Political Science 499 is recommended for in-service students.

For the **Public Management Specialty**, the student must complete Political Science 381, 391, 401 and either 491 or 499, and must select one of the following courses with approval of advisor: Political Science 361, 363, 395, 440, Business 351, Economics 302. For the **Community Planning Specialty**, the student must complete Political Science 331, 334, 335, 336, 337, 440, and either 491 or 499, and must select one of the following courses with approval of advisor: Political Science 361, 391, 395, 461.

For the **Criminal Justice Administration Specialty**, the student who has completed an associate degree in law enforcement or its equivalent may satisfy 16 of the 28 required credits of this specialty by having completed eight law enforcement courses at a Virginia community college. (Students already enrolled in the College who wish to take community college law enforcement courses should follow the procedures for taking courses elsewhere). The following

course program may be substituted for the B.S.G.A. Criminal Justice Administration Specialty law enforcement courses which would otherwise be transferred from the community college level: Political Science 365 and any five of the following courses: Political Science 342, 363, Psychology 304, 403; Sociology 225, 319, 321, 324, 326, 411, 422, 430. In addition to the above requirements totaling 16-18 semester credits, the student specializing in criminal justice administration must take Political Science 346 and 468, and either 491 or 499, and must select one of the following courses with approval of advisor: Political Science 342, 363, 365, 395, 490, 495; Psychology 313.

For the **Corrections Specialty**, students must complete three of the following courses in Political Science, including those with an asterisk: Political Science 363*, 491 or 499*, 346, 381, 395, 401. In addition, students must complete four of the following Sociology courses: Sociology 220, 225, 319, 321, 324, 326, 367, 395, 399, 410, 411, 422, 495. Students must also complete two of the following Psychology courses: Psychology 304, 305, 307, 308, 309, 313, 403, 405.

Certificate Programs in Community Planning

The Department of Political Science and Governmental Administration offers basic and advanced certificates in community planning. Interested students should contact the Director of Planning Programs in that Department.

Sample Programs

Public Management Specialty

Course	Hours
Freshman Year	
English Composition	6
Mathematics	6
Political Science	6
Physical Education	4
Economics	6
Electives	6
Sophomore Year	
Natural Science	8
Humanities	6

Accounting or Computer	3
BSGA Core Requirements	12
Electives	3
	32
Junior Year	
BSGA Core Requirements	15
BSGA Specialty Courses	15
Electives	3
	33

Senior Year	
BSGA Specialty Requirements	12
Electives	13
	25

Community Planning Specialty

Course	Hours
Freshman Year	
English Composition	6
Mathematics	6
Political Science	6
Economics	6
Physical Education	4
Elective	3
	31

Sophomore Year	
Biology 101-102	8
Humanities	6
Introduction to Community Planning	3
Statistics	3
Computer Science or Accounting	3
Social Problems	3
Urban Economics	3
Elective	3
	32

Junior Year	
Site Planning and Design I, II	6
Techniques of Community Planning	3
Maps & Charts	3
Public Administration	3
Governmental Budgeting	3
Environmental Conservation	3
Urban Government and Politics	3
Community Organization	3
Elective	3
	31

Senior Year	
Planning Law and Administration	3
Theory of Planning	3
Public Policy Analysis	3
Politics of Urban Planning	3
Political Thought and Criticism	3
Recent Political Ideas and Values	3
Practicum	3
Electives	10-12
	30-32

Criminal Justice Administration Specialty

Course	Hours
Freshman Year	
English Composition	6
Mathematics	6
Political Science	6
Physical Education	4
Psychology	3
Natural Science	8
	33

Sophomore Year	
Humanities	6
BSGA Core Requirements	15
Sociology	6
Computer or Accounting	3
Elective	3
	33

Junior Year	
BSGA Core Requirements	12
BSGA Specialty Requirements	15
Electives	6
	33

Senior Year	
BSGA Specialty Requirements	18
Psychology	3
Electives	6
	27

Corrections Specialty

Course	Hours
Freshman Year	
English Composition	6
Mathematics	6

Political Science	6
Physical Education	4
Sociology	6
Psychology	3
	31

Sophomore Year	
Natural Science	8
Humanities	6
Computer or Accounting	3
BSGA Core Requirements	15
	32

Junior Year	
BSGA Core Requirements	15
Sociology	6
Psychology	6
Electives	6
	33

Senior Year	
BSGA Specialty Requirements	15
Economics Electives	6
Electives	7
	28



Bachelor of Science Degree in Business Administration

The Division of Business Administration and Economics has programs leading to the Bachelor of Science degree in Business Administration and the Bachelor of Science and Bachelor of Arts degrees in Economics. The programs offered by the Division of Business Administration and Economics are designed to prepare students for managerial careers in business and in public administration.

The Division of Business Administration and Economics consists of three departments: the Department of Accounting and Finance, the Department of Economics, and the Department of Management and Marketing. The Department of Accounting and Finance offers concentrations in Accounting and Finance; the Department of Economics offers a concentration in Economics and a B.A. degree program in Economics; the Department of Management and Marketing provides concentrations in Management, Marketing, and Real Estate.

Curriculum Requirements

All students majoring in programs in the Division of Business Administration and Economics must complete the general education requirements consisting of 45 semester hours. These requirements consist mainly of course work in arts and sciences and are as follows:

English *six credits*
English 101-102 or English 103-104, or (if approved by the English department, 101-104 or 103-102) is required of all students unless exempted by the English department. Recommended placement of each student in 101 or 103 is done on the basis of pre-college verbal scores and education background as well as career interests and potential major.

Humanities *six credits*
The student may select a six-hour sequence from the following courses:
Classical Civilization 201, 202
English 201, 202
English 205, 206
English 207, 208
Fine Arts 201, 202
French 251, 252
German 251, 252
Modern Languages 205, 206
Music 201, 202
Philosophy 201, 202
Theatre 210, 211

or the student may take Speech 201 and any of the courses listed above.

Mathematics *six credits*
Mathematics 125 is required. Mathematics 110 is recommended. The student who has a strong algebra background should consult his advisor about substituting a higher level course for Mathematics 110.

Natural Science *eight to ten credits*
The student may choose one of the following sequences:

Biology 101-102 (a student who earns an A or B in Biology 101 may be given permission by the department to substitute an upper-level laboratory course for Biology 102)
Chemistry 103-104 and 105-106
Chemistry 121-122 and 125-126
Physics 103-104
Physics 201-202

or any two semester natural science course for non-science majors. A transfer student may satisfy this requirement with eight or ten hours of freshman geology, astronomy, or other laboratory science course that considers one area of science through the full academic year.

Computer Science 220 *three credits*

Social Sciences *twelve credits*
The student may choose one of these six hour sequences:

History 101, 102
History 201, 202
Political Science 101, 102
Psychology 201, 202
Sociology 200 and any other 200-level sociology course

In addition, the student must select six more hours in the social sciences in accord with his or her interests and career objectives. These last six hours do not have to be sequential.

Physical Education *two to four credits*
Two semester courses of physical activities are required. A maximum of one additional activities course may be applied toward a degree.

Special exceptions from any of the basic distribution requirements as outlined above may be requested by writing to the Committee on Degrees.

In addition to the General Education Requirements, all students majoring in programs in the Division of Business Administration and Economics must complete the following 30 hours of common business/economics core requirements.

Core Requirements

Number	Course	Semester Hours
Acct. 201-202	Accounting Principles	6
Advanced Econ. Requirement		3
Choose Econ. 304	(3) Intern. Theory	
from Econ. 420	(3) Bus. Cond. & Forecasting	
Econ. 490	(3) Managerial Econ.	
Bus. 311	Principles of Marketing	3
Bus. 323	Financial Management	3
Bus. 331	Business Statistics	3
Bus. 324	Administrative Theory and Practice	3
Bus. 361	Legal Environment of Business	3
Bus. 408	Quantitative Analysis	3
Bus. 418	Business Policy	3
	Total	30

In addition to the General Education Requirements (45 hours) and the business and economics core requirements (30 hours), the student must select one of the concentrations offered by the Division of Business Administration and Economics. The additional requirements for each concentration offered by the Division of Business Administration and Economics are listed by the departments in subsequent sections of the catalogue.

Concentrations

Accounting	27 hours
Economics	18 hours
Finance	18 hours
Management	18 hours
Marketing	18 hours
Real Estate	12 hours

Thus, a typical program of a student majoring in a program in the Department of Accounting and Finance, the Department of Economics, or the Department of Management and Marketing will consist of:

General Education Requirements	45 hours
Division of Business Administration and Economics Common Core Requirements	
Division of Business Administration	12-27 hours
and Economics Concentration Requirements	
Free Electives	37-22 hours
Total	124 hours

Bachelors Degree in Interdisciplinary Studies

The Interdisciplinary Major is a degree program at Christopher Newport College which permits a student, under the guidance of a faculty committee, to design and carry out an individual plan of study involving two or more academic disciplines. The student may earn either the Bachelor of Arts or the Bachelor of Science degree.

An important objective of the Interdisciplinary Major is to involve the student in formulating a rationale for and the design of a coherent individual program of study. This is a difficult task and requires a certain amount of knowledge and direction. The student will have to give considerable thought to his or her long-range learning objectives, and how those objectives are best met. For this reason, it is advisable for the student to first complete thirty or more semester hours of study. In order to complete predetermined learning objectives, a student must have his program approved by his Faculty Committee prior to the completion of 75 hours of course work. Before applying to the program, the student must make certain that his educational goals cannot be achieved by a regular departmental major supported by a minor and/or careful selection of electives. The student's plan of study must meet college distribution requirements, must give evidence of the student's ability in the methods of disciplined academic inquiry, and must include a minimum of thirty credits in 300- and 400-level courses in the traditional academic disciplines.

To enter the program the student must first complete an application form which calls for a brief description of his or her proposed plan of study, a rationale for the plan, and an identification of those disciplines that will be involved in the student's plan of study. Application forms are available in the office of the Vice-President of Academic Affairs. Applications must be submitted to the Vice-President by November 1 during the Fall semester or March 15 during the Spring semester. It is advisable for a student to discuss his or her plan of study with the Vice-President before submitting an application.

The Vice-President or his designate reviews the student's application and if he judges the student's proposal to be viable, he appoints a faculty committee which represents the primary disciplines involved in the student's plan of study. The Vice-President also identifies one of the members of this committee as the student's major advisor. If the Vice-President is unable to approve the student's proposed plan of study, he does not appoint a faculty committee and notifies the student of the reason for his decision.

The appointed faculty committee initially meets with the student to discuss the proposed plan of study and continues to assist the student in the implementation of the details. This includes specifying the individual courses that the student must take to meet all requirements for the Bachelor of Arts or Bachelor of Science Degree. All members of the committee must approve the student's program or any subsequent changes in an already approved program. Members of the committee as individuals advise the student throughout his or her program of study with regard to those academic disciplines in which the committee member has expertise. The student's major advisor oversees the total work of the student and confirms, prior to graduation, that he or she has completed all necessary requirements.



Associate in Arts Degrees

Christopher Newport College is currently authorized to confer the Associate in Arts degree in Liberal Arts; however, the program will be phased out in 1980.

A student in this program may choose to fulfill the general degree requirements set forth in the catalogue in effect when he or she becomes a classified student in the College or in the catalogue in effect at the time he or she graduates. Each student is expected to plan a curriculum, including distribution requirements and elective offerings, in consultation with his or her advisor. Although the College offers every assistance to the student in planning a program, it is ultimately the student's responsibility to ensure that his or her program of studies properly reflects the requirements for the degree as set forth in the catalog.

General Requirements for Graduation

A minimum of sixty semester credits and two semesters of physical education activities is required for the degree. A 2.0 grade point average is required. The Associate in Arts degree will not be granted until the student has been in residence at least one college year and has earned a minimum of fifteen semester credits at the College. This period must include the last year of the work required for the degree.

Courses Taken Elsewhere

The Associate Dean of Academic Affairs will evaluate the credits of a student who transfers from another accredited institution and will identify in a written statement to the student the credits acceptable as transfer credit. Transfer credits, up to a maximum of thirty-four hours, will be given for courses which carry a passing grade and are comparable to courses offered by the colleges similar in aims and purposes to Christopher Newport College.

A student may transfer a maximum of twenty-one semester credits in courses representing the application of the arts and sciences, including the playing of an instrument, ceramics, arts and crafts, and so on. No more than thirty semester credits may be applied toward the degree for work completed in extension, special institute or correspon-

dence courses, service schools and courses, or through the College Entrance Examination Board, Advanced Placement Program and College-Level Examination Program. Students already enrolled at the College who want to take such work or summer school work elsewhere for credit must first receive written permission from the Vice-President of Academic Affairs.

Distribution Requirements

To qualify for this degree, a student must complete a minimum of thirty-six semester credits according to this plan.

English six credits

English 101-102 or English 103-104, or (if approved by the English Department) 101-104 or 103-102 is required of all students unless exempted by the English Department. Recommended placement of each student in 101 or 103 is done on the basis of the pre-college verbal scores and education background as well as career interests and potential major.

Humanities six credits

The student may choose any one of the following sequences:

- Classical Civilization 201, 202
- English 201, 202
- English 205, 206
- English 207, 208
- Fine Arts, 201, 202
- French 251, 252
- German 251, 252
- Modern Languages 205, 206
- Music 201, 202
- Philosophy 201, 202
- Spanish 251, 252
- Theatre 210, 211

Mathematics or Logic four to six credits

The student may choose Philosophy 101-102 or any two of these five courses in mathematics:

Mathematics 110, 120, 125, 130, 135

If qualified, the student may choose Mathematics 140 alone. At the discretion of the Mathematics Department, the requirement may be satisfied if a student places beyond Mathematics 140 on the placement examination.

Natural Science eight to ten credits

The student may choose one of the following sequences:

Biology 101-102 (a student who earns an A or B in Biology 101 may

be given permission by the department to substitute an upper level laboratory course for Biology 102)
Chemistry 103-104 and 105-106
Chemistry 121-122 and 125-126
Physics 103-104
Physics 201-202

or any two semester natural science course for non-science majors. A transfer student may satisfy this requirement with eight or ten hours of freshman geology, astronomy, or other laboratory science course that considers one area of science through the full academic year.

Social Studies six credits

The student may choose any one of the following sequences:

- Economics 201-202
- History 101, 102
- History 201, 202
- Political Science 101, 102
- Psychology 201, 202
- Sociology 200 and any other 200 level sociology course.

Physical Education two to four credits

Two semester courses of physical activities are required. A maximum of one additional activities course may be applied toward a degree.

Special exceptions from the basic distribution requirements outlined above may be requested by writing to the Committee on Degrees.

Electives

For the remainder of the required hours, the student may select any academic courses of special interest to him or her, provided that the necessary prerequisites have been completed.

ODU/CNC M.B.A. PROGRAM

Old Dominion University, in cooperation with Christopher Newport College, offers a master of business administration (M.B.A.) degree program on the campus of Christopher Newport College in Newport News, Virginia. The M.B.A. degree is awarded by Old Dominion University.

The master of business administration degree program consists of a minimum of 30 hours of graduate work. The student must complete a number of required courses designated as the core curriculum and may elect to take additional specialized course work concentration in one of the following areas: accounting, economics, finance, health care administration, human resources, marketing, production/operation systems, public administration, and quantitative methods.

In order to be admitted to the M.B.A. program, the individual must satisfactorily meet the following requirements:

1. Present academic credits or evidence of undergraduate course work consisting of the following prerequisite course work: Principles of Accounting, Principles of Economics, Corporation Finance, Principles of Management, Principles of Marketing, Statistical Inference Systems, and Legal Environment of Business.
2. A satisfactory quality point average in undergraduate course work.
3. An acceptable score on the Graduate Management Admission Test (GMAT).

A student may desire to complete the undergraduate prerequisite course work if he lacks any of the above prerequisites without formally being admitted to the M.B.A. program. All courses currently offered on the Christopher Newport College campus are taught during the evening hours.

CNC/ODU Affiliated Baccalaureate Program for Registered Nurses

Through a cooperative arrangement, registered nurses may earn the Old Dominion University Bachelor of Science degree in Nursing through an affiliated program with Christopher Newport College. The ODU degree is fully accredited by the National League for Nursing.

The Christopher Newport College/Old Dominion University affiliated program is designed to meet the needs of the registered nurse whose job and/or other responsibilities preclude full-time study. Students who are not registered nurses are not eligible to participate.

Students interested in the program will initially apply for Classified Status at Christopher Newport College and, if admitted, will retain their CNC Classified Status throughout the first 72 hours of the program. Students will be assigned to an advisor from the ODU School of Nursing throughout their studies.

The admission and degree requirements of Old Dominion must be met by students in order to earn the B.S.N. degree through the affiliated program. Twenty-four semester hours of prerequisite courses taken at Christopher Newport College may be counted toward the Old Dominion University residence requirement of thirty semester hours.

Additional information about this cooperative program can be obtained from the Admissions Office.

CNC/Duke University Cooperative Program in Forestry / Environmental Management

Christopher Newport College has a cooperative program with Duke University's School of Forestry and Environmental Studies leading to the B.S. from Christopher Newport and the Master of Forestry or Master of Environmental Management from Duke. Students in this

program attend Christopher Newport for the first three years of the program, then transfer to Duke for the final two years. During the three years at Christopher Newport, the student must complete at least 94 semester hours, including the distribution courses required by CNC plus courses required by Duke as prerequisites for the program there. Upon the completion of 30 semester hours of the two-year program at Duke, CNC will award the student the B.S. degree. Upon the completion of 30 more semester hours and all appropriate requirements for the degree, Duke University will award the appropriate Master's degree. Since the Duke University program is basically designed as a two-year graduate program for those who hold a bachelor's degree, it is apparent that this cooperative program shortens the time required to obtain the Bachelor's and Master's degree from six years to five. At Duke there is an opportunity to major in any one of several fields of Forestry or Environmental Sciences. Forest ecology, forest management, forest soils, forest entomology, air pollution, meteorology and hydrology, natural resource management, natural resource ecology, and environmental education are only a part of the major fields available. Students interested in entering this cooperative program should contact Dr. Wise, advisor for the program.



Gerontology

Christopher Newport College offers a multi-disciplinary minor in gerontology for undergraduates and a certificate program for practitioners in the community. The program is designed to meet the following student goals.

To provide a body of knowledge about older persons to be combined with skills obtained from the student's major discipline to prepare for careers in nursing home administration, administrative positions in community/aging programs, research and planning, recreation, social work, counseling, adult education and other.

To offer a certificate program to practitioners in gerontology related fields working in the community who wish to extend their knowledge base in gerontology (an A.A. degree or equivalent is a suggested prerequisite and any specific course prerequisite must be met or waived by consent of instructor).

To serve as a minor for the student who may have no career goals in the field but has an interest in gerontology.

Any of the courses may be taken without commitment to the entire program.

Requirements of the Program

The program consists of 18 semester hours, 15 of which are required core courses. The additional three hours may be chosen according to student interests.

It is anticipated that core courses will be offered during the day in one year and in the evening in alternate years.

Core Courses

Sociology 305. Sociology of Aging
Psychology 340. Psychology of Late Adulthood and Aging.
Biology 295. Physiology of Aging and Health Problems

Sociology 395/ Political Science 395. Social Policy and Programs in Health and Aging. Practicum in Gerontology. At least six hours of core courses must be completed prior to practicum. Arrangements for practicum must be made with the Gerontology Coordinator during pre-registration.

Elective Courses

Economics 495. Topics. Economics of Health Resources and Aging
Education 395. Topics. The Older Adult Learner
Physical Education 395. Recreation and Special Populations

Course Descriptions

Biology 295. Topics. Physiological Aging and Health Problems. [3-3-0]

Offered fall semester.

Examination of the aging process and consequent changes in human physiology and body systems. Relationship of physiological changes to health and nutritional problems. Survey of major health problems and possible interventive strategies.

(A course for the non-science major to provide information and understanding about the elderly person which will be helpful in practice settings.)

Economics 495. Economics of Health Resources and Aging. [3-3-0]

Prerequisite: Economics 201-202. Economic theory and applications in the health care system, medicare care organizations and economic aspects of aging. The present system of health care delivery will be examined with respect to achievement of social objectives and policy for improvement will be discussed. Offered alternate years, spring semester.

Education 395. Topics. The Older Adult Learner. [3-3-0]

Spring semester.

This course will examine learning theories and instructional strategies appropriate to the education of the older adult. Environment, past experience, motivation, attitude and

intellectual capacities will be studied as factors significant in educating the older learner.

Physical Education 395. Topics. Recreation and Special Populations. [3-3-0]

Spring semester.

An introductory study of the concept of leisure activities for those who are considered limited in their social, physical or psychological living pattern, including the elderly.

Practicum in Gerontology. [3-3-0]

Each semester.

Part-time internship in appropriate agency/organization. Periodic conferences, written evaluations, and internship project. Students must apply for internship through the Gerontology Coordinator at least 30 days prior to the semester.

(Practicum placement will be coordinated by Gerontology Program Coordinator with the department through which the student is registered. This will ordinarily be the student's major department. Otherwise, the student will register for the practicum in the most appropriate department as it relates to the practicum experience. Students may not register for the practicum before completing 6 hours of the program.

Certificate students working in a geriatric setting may use their experience as the practicum setting but must receive academic supervision and complete a substantial reading program in areas bearing directly on the field placement in addition to the regular expectations of the practicum).

Political Science/Sociology 395. Topics.

Social Policy and Programs in Health and Aging. [3-3-0]

Fall semester.

A survey of pertinent federal, state, and local legislation and programs. Issues in policy, planning, and administration for health care and programs for the elderly.

(Course will be cross listed in Political Science and Sociology and will be team taught in modules).

Psychology 340. The Psychology of Adulthood and Aging. [3-3-0]

Spring semester.

Prerequisite: Psychology 201 or consent of instructor.

A treatment of the biological, psychological, and social characteristics of adult development with emphasis on the dynamic nature of self-examination and evaluation during this life stage. Aging is discussed as both a consequence of adulthood and a separate life-span stage in which biological limitations adversely prejudice psycho-social potential.

Sociology 305. Sociology of Aging. [3-3-0]

Fall semester.

Prerequisite: Sociology 200 or consent of instructor.

Aging as a social process and its relation to biological and psychological processes. Analysis of role loss, changing roles as a result of aging. Problems associated with the social aspects of aging. Social programs for the aging.

Information

Persons wishing more information about this program should contact Professor Ruth L. Kernodle, Coordinator of Gerontology (599-7114).



Courses of Instruction

In the following descriptions of courses offered by the College, courses numbered 100 are primarily for freshmen, 200 for sophomores, 300 for juniors, and 400 for seniors.

A continuous course, indicated by a hyphen between the course numbers, covers a field of closely related materials, and the first semester must ordinarily precede the second unless special permission is given by the chairman of the department concerned. If a course is made up of two closely related semesters, but the second may be taken first, the course numbers are separated by a comma. The numbers in brackets following the title of the course should be read in this way, the first digit refers to the number of credit hours awarded for completion of the

course; the second digit refers to the number of lecture hours for the course; and the third digit refers to the number of laboratory, practicum, or studio hours for the course. A course which is designated as [4-3-2], for example, refers to a four-credit course which has three lecture hours and two laboratory hours each week.

A schedule of when these courses will be offered is published each semester well before registration. While the College will attempt to offer the courses in the semester and year indicated in this catalog, the College reserves the right to change the schedule in response to the availability of the professional staff and the demand of students. For information about the scheduling of courses, the student should see the chairman of the department in which the course will be offered.

Accounting and Finance

Professor: Karna

Associate Professors: Riley, Sanderson (Chairman)

Assistant Professors: Shaver, Young
Instructor: White, Shell*

*Leave of Absence, Academic Year 1978-79

The Department offers the Bachelor of Science Degree with two concentrations, Accounting and Finance. The undergraduate program in Accounting prepares the student to follow either one of two main tracks: (a) to use the accounting background to pursue careers in private, governmental, or public accounting, or (b) to do graduate work in accounting.

The course work prescribed in the accounting concentration meets the educational requirements to sit for various professional examinations.

The undergraduate degree with the finance concentration similarly is designed to provide the students with analytical skills

necessary to pursue careers in financial institutions, securities brokerage firms, and business firms, and to pursue graduate programs in finance.

For general education requirements (45 hours) and the business and economics core requirements (30 hours), refer to the catalogue section on requirements for degrees (B.S.B.A.).

Accounting Concentration. 27 credits including Accounting 301, 302, 303, 304, 400, 405. One elective course from Accounting 351, 401, 402, and 403. Concentrators must complete Business 341 and 342 (Business Law) and are exempted from taking Business 361, Legal Environment of Business, as a business and economics core requirement. Anyone concentrating in Accounting who wishes to sit for the CPA examination in Virginia is advised to take English 353. (Courses taken to satisfy the concentration are in addition to any courses taken to meet the Division of Business Administration and Economics core requirements).

Accounting Minor. 12 credits including Accounting 301, 302, 303, 304. (Courses taken to satisfy the minor are in addition to any courses taken to meet the Division of Business Administration and Economics core requirements.)

Finance Concentration. 18 credits including Finance 421, Principles of Investment, 422, Problems in Financial Management, 424, Financial Policy and Strategy. Three elective courses should be taken from Finance 423, Management of Financial Institutions; Business 473, Real Estate and Finance; Economics 302, Public Finance; Economics 470, International Trade and Finance; Economics 420, Business Conditions and Forecasting; Accounting 410, Managerial Accounting. (Courses taken to satisfy the concentration must be in addition to any courses taken to meet the Division of Business Administration and Economics core requirements.)

Finance Minor. 12 credits including Finance 421 and Finance 422. Two elective courses from any courses listed as required or electives under Finance Concentration. (Courses taken to satisfy the minor must be in addition to any courses taken to meet the Division of Business Administration and Economics core requirements.)

Accounting 201-202. Principles of Accounting [3-3-0]

Taught both semesters.

A study of the elementary principles and procedures of individual proprietorship, partnership, and corporation accounting.

Accounting 301-302. Intermediate

Accounting [3-3-0] [3-3-0]

Prerequisite: Accounting 201-202. Taught both semesters.

An analysis of the statement of financial position, the income statement, and the statement of changes in financial position, together with the theory of valuation underlying the various accounts used in these statements.

Accounting 303-304. Cost Accounting [3-3-0]

Prerequisite: Accounting 201-202. Taught both semesters.

The fundamentals of job order, process, and standard cost accounting and cost and profit analysis for decision-making purposes.

Accounting 351. Governmental and Institutional Accounting [3-3-0]

Prerequisite: Accounting 201-202. Taught fall semester.

Budgetary accounting and finance control and their application to various governmental units, more particularly to cities, counties, and other political subdivisions and public institutions.

Accounting 400. Advanced Accounting [3-3-0]

Prerequisite: Accounting 301-302. Taught both semesters.

A study of accounting for partnerships, consolidated statements, and fiduciaries.

Accounting 401. Taxation [3-3-0]

Prerequisite: Accounting 201-202. Taught fall semester.

A review of federal income tax laws as applied to individuals.

Accounting 402. Advanced Taxation [3-3-0]

Prerequisite: Accounting 201-202. Taught spring semester.

A review of federal tax laws as applied to partnerships and corporations.

Accounting 403. Accounting Theory [3-3-0]

Prerequisite: Accounting 301-302. Taught either semester as required.

A review of current topics in accounting, a detailed study of articles in accounting journals and related publications.

Accounting 405. Auditing [3-3-0]

Prerequisite: Accounting 301-302 and Math 125. Taught both semesters.

Conceptual approach to auditing principles and procedures in the preparation of auditing

reports. Professional standards and ethics are emphasized.

Accounting 410. Managerial Accounting [3-3-0]

Prerequisite: Accounting 201-202. Taught both semesters. For non-accounting majors only.

The study of the use of accounting data by management in planning, budgeting, and forecasting business and economic variables.

Finance 421. Principles of Investment [3-3-0]

Prerequisite: Business 323. Taught both semesters.

An analysis of investment types and the securities markets. Analysis and solution of financial problems related to investment. Current trends and timing of investments.

Finance 422. Problems in Financial Management [3-3-0]

Prerequisite: Business 323. Taught both semesters.

Application of principles of financial management to the solution of special problems and cases. Topics include financing of the firm, dividend policy, capital structure, cost of capital, capital budgeting, financial analysis, and mergers and acquisitions.

Finance 423. Management of Financial Institutions [3-3-0]

Prerequisite: Business 323. Taught fall semester.

Emphasis on the operating environment of the particular financial institution in terms of performance criteria, loan and investment policy, regulation and social and economic roles. The course also deals with the current changes and proposed changes in the functioning and role of each of the financial institutions.

Finance 424. Financial Policy and Strategy [3-3-0]

Prerequisite: Business 323. Taught either semester as required.

The course is designed for computer use of the financial simulation. Special emphasis will be placed on the major aspects of financial management decision making through simulation. Financial forecasting, application of ratio and fund flow analysis, capital budgeting, and capital structure and the cost of capital will be stressed.

Finance 495. Finance Topics [3-3-0]

Prerequisite: Permission of the department chairman.

Topical seminars in finance. The number of credits may vary.

Accounting 495. Accounting Topics [3-3-0]

Prerequisite: Permission of department chairman.

Topical seminars in accounting. The number of credits may vary.

Finance 210. Personal Finance [3-3-0]

Taught either semester as required.

Recommended elective for non-business as well as business majors. A course designed to teach the student to exercise intelligent control over his income, expenditures, borrowing, savings, and investments.

Finance 323. Financial Management [3-3-0]

Prerequisite: Accounting 201-202. Taught both semesters.

Topics covered include a brief history of corporate development, types of securities issued, promotion, capitalization, ownership, and management, sales and regulation of securities, working capital requirements, corporate expansion, failure and reorganizations.

Business 341-342. Business Law [3-3-0] [3-3-0]

Taught both semesters.

A study of the primary legal principles and their applicability to ordinary commercial transactions, with emphasis on contracts, legal forms of business enterprises, agencies, negotiable instruments, and labor and anti-trust legislation.

Anthropology

203. Introduction to Anthropology [3-3-0]

Taught fall semester.

An introduction to the field of anthropology. Particular attention will be given to the problems of human origins and development, both physical and cultural.

204. Cultural Anthropology [3-3-0]

Taught spring semester.

The application of the concept of culture to the study of contemporary societies, both pre-industrial and modern, including such institutional areas as magic and ritual, crime, custom and law, and economy, courtship, marriage, and childrearing. These will be analyzed cross-culturally.

Basic Studies

Associate Professor: Harwood (Chairman)

Assistant Professors: Kostaki-Gailey,

McGregor, Randall

The Basic Studies Department offers instruction and guided practice in mathematics, reading, and writing to students who need additional competence in those areas in order to benefit fully from the intellectual life of the College.

Basic Studies courses provide group and individual instruction in a systematic progression. The Department also offers laboratory or tutorial programs outside the course schedule for any student of the College.

While the Department emphasizes academic preparation, the faculty believes that self-confidence and motivation invariably accompany academic achievement. Thus, the courses include individual conferences, tutorial sessions, and referral to the Counseling Center as needed.

Students may initiate their contact with the Department or may be referred by the Dean of Admissions, the Counseling Center, or any member of the faculty. While some students acquire the necessary preparation in one semester, others require two or more semesters to achieve the competence suffi-

cient for successful performance in the College curriculum. These students must re-enroll in one or more of the courses until they attain the course objectives. Students may not, however, repeat a course more than once.

Credit in Basic Studies courses does not apply toward a degree.

01, 02, 03, 04. English for Speakers of Other Languages [4-3-3]

A pre-college course for students who have completed or nearly completed high school in their native countries but whose English is not sufficient for unimpeded progress in college-level work at an English language college or university. Students who have not completed their high school education are encouraged to prepare for the General Educational Development (GED) Test. This can be done in part through this course and/or the courses designed specifically for that purpose offered in the local Adult Education Programs.

This course is divided into two parts: the first, a class session, will develop active knowledge of structures (speaking and writing) and reading ability in various subject areas; the second, a laboratory session, will provide the student, under the instructor's guidance, an opportunity to work in areas of special interest or difficulty.

Students will be placed in the appropriate course (01, 02, 03, 04) based on their knowledge of English.

010. Strategies for Reading and Study [4-3-3]

Taught both semesters.

Instruction and guided individual practice in major reading and study skills, including textbook study, lecture note-taking, library use, examination techniques, vocabulary, recall, and organizing.

020. Writing [4-3-3]

Taught both Semesters.

Extensive practice in using the major conventions of formal English prose. Special attention will be devoted to the writing problems of individual students.

030-031. Algebra [3-3-0] [3-3-0]

Taught both semesters.

Topics include sets, properties of real numbers, polynomials, factoring, algebraic fractions, linear equations and inequalities, radicals, quadratic equations, graphs, and systems of equations.

Biology and Environmental Science

Professors: Banks (Chairman), Edwards,

Markusen, Olson, Pugh and Wise

Associate Professors: Cones, Mollick

Assistant Professor: Simmons

Instructor: Cripps

The aims of the Department of Biology and Environmental Science are to acquaint students with the body of knowledge in biology and environmental science and to teach them to apply this knowledge usefully and responsibly. The Department is organized to enable the major student to survey the entire field of biology and also specialize in one of various areas, including botany, cell biology-biochemistry, environmental science, ornamental horticulture, the premedical-pre dental area, teaching, or zoology.

A student may also specialize in Parks, Open Space, Recreation, and Natural Resource Management. Courses that are a part of the affiliated B.S. Degree Nursing Program with Old Dominion University are also offered by the Department. It serves students who wish to complete their undergraduate work in specialized programs, including health and agricultural programs, at other institutions.

Christopher Newport College has a cooperative program with Duke University's School of Forestry and Environmental Studies leading to the B.S. from Christopher Newport and the Master of Forestry or Master of Environmental Management from Duke. Students in this program attend Christopher Newport for the first three years of the program, then transfer to Duke for the final two years. During the three



years at Christopher Newport, the student must complete at least 94 semester hours, including the distribution courses required by CNC plus courses required by Duke as prerequisites for the program there. Upon the completion of 30 semester hours of the two-year program at Duke, CNC will award the student the B.S. degree. Upon the completion of 30 more semester hours and all appropriate requirements for the degree, Duke University will award the appropriate Master's degree. Since the Duke University program is basically designed as a two-year graduate program for those who hold a Bachelor's degree, it is apparent that this cooperative program shortens the time required to obtain the Bachelor's and Master's degree from six years to five. At Duke there is an opportunity to major in any one of several fields of Forestry or Environmental Sciences. Forest ecology, forest management, forest soils, forest entomology, air pollution, meteorology and hydrology, natural resource management, natural resource ecology, and environmental education are only a part of the major fields available. Students interested in entering this cooperative program should contact Dr. Wise, advisor for the program.

A minimum of forty hours is required for a concentration in biology and environmental science. The student may elect not to count the introductory courses (Biology 101-102) among the hours counted in his or her major requirement. (If the student so elects, the Registrar must be notified prior to the completion of ninety hours.) A student who earns an A or B grade in Biology 101 may receive departmental permission to substitute

an upper-level course for Biology 102. The required courses for majors are 307 or 414 and 414a, 313, 313a, 490, and one botany course exclusive of 217, 303, 311, 415, and 416. The remaining biology hours are to be selected with the aid of the student's advisor. Biology majors are expected to take the laboratory course that corresponds to each lecture course.

Majors must take Chemistry 121-122, 125-126, 245, 321-322, 326, Mathematics 140, and Physics 103-104 or Physics 201-202. The program should include six to ten hours of non-biology electives as well as a foreign language. If the usual supporting courses required by the Department are inappropriate for the student's goals, the student and his or her advisor may prepare an alternate program at the beginning of the junior year or earlier. An alternate program is usually necessary for students in the Horticulture Track.

Students in the Parks, Open Space, Recreation, and Natural Resource Management track must work out a program, including a required minor in political science and supporting courses in physical education, with the aid of a departmental advisor.

Unless otherwise specified, the prerequisite for all courses above the 100 level is successful completion of Biology 101-102, or consent of the instructor.

The minimum requirement for a minor in Biology and Environmental Science is twenty hours of departmental course work above the 100 level. No specific courses are required. A coherent program in keeping with the student's aims and objectives should be planned by the student, his or her major advisor, and a minor advisor from the Department of Biology and Environmental Science.

Sample Programs for Biology Majors

Course	Hours
Freshman Year	
Biology 101-102	8
Chemistry 121, 125	5
Chemistry 122, 126	5
Mathematics 130, 140	7
English 101-102	6
	31

Sophomore Year	
Biology 313, 313a	4
Biology Elective	4
Chemistry 245, 321	5
Chemistry 322, 326	5
Social Science	6
Physical Education	4
Humanities	3
Elective	1
	32

Junior Year	
Biology 307 or 414, 414a	4
Physics 103-104 or 201-202	8
Foreign Language	8
Biology Electives	8
Humanities	3
	31

Senior Year	
Biology Electives	11
Biology 490	3
Social Science	6
Humanities	3
Foreign Language	6
Elective	1
	30

Sample Program for Biology Majors Teacher Education Programs in Biology and General Science (Minor in Secondary Education)

Course	Hours
Freshman Year	
Biology 101-102	8
Chemistry 121, 125	5
Chemistry 122, 126	5
Mathematics 130, 140	7
Physical Education	4
English 101-102	6
	35

Sophomore Year	
Chemistry 245, 321	5
Chemistry 322, 326	5
Physics 103-104 or 201-202	8
English (200 level)	3
History 201-202	6
Psychology 201-203	6
	33

Junior Year	
Communications 201	3
Education 300, 303	6
Psychology 312	3
Biology 307 or 414, 414a and 313, 313a	8
Biology Electives	12
	32

Senior Year	
Biology Electives	12
Biology 490	1
English (200 level)	3
Education 401s	6
Education 403a, 404, 414	9
Physical Education 321	3
	34

Sample Program for Biology and Environmental Science Majors with Specialization in Ornamental Horticulture

Course	Hours
Freshman Year	
Biology 101-102	8
Chemistry 103-104, 105-106	8
Mathematics 110, 120	6
English 101-102	6
Humanities	3
	31

Sophomore Year	
Biology 205, 205a	4
Biology 217	4
Biology 206	4
Electives	6
Physical Education	4
Social Science	6
Humanities	3
	31

Junior Year	
Biology 307	4
Physics 103-104 or 201-202	8
Electives	6
Biology 303	4
Biology 311	4
Biology 304	4
	30

Senior Year	
Electives	9
Biology 490	1
Biology Elective	4
Biology 415	4
Biology 416	4
Biology 308 or 305	4
Social Science	6
	32

101-102. Principles of Biology [3-3-0] [3-3-0]
Taught both semesters.
Basic principles of biology as revealed by research and experimentation; the relation of these principles to the success of living organisms.

**101a-102a. Principles of Biology
Laboratory [1-0-3] [1-0-3]**
Prerequisite: Concurrent or previous registration in Biology 101-102.

205. Introduction to Genetics [3-3-0]
Taught fall semester.
Principles of heredity and variation. Discussion of traditional genetic tools; representative life cycles; application to human genetics and social issues. (Not intended for the usual biology major. However, students in certain biology specializations may use this course to satisfy the departmental requirement.)

205a. Introduction to Genetics Laboratory [1-0-4]
Prerequisite: Concurrent or previous registration in Biology 205. Taught fall semester.

206. Plant Taxonomy [4-3-4]
Prerequisite: Biology 101-102 or consent of instructor. Taught fall semester.
Phyletic relationships of flowering plants and ferns; principles of classification and identification of local flora.

207. Pioneer Biology-Living Off the Land [3-3-0]
A study of the interdependence of man and his environment through investigating and experiencing pioneer living practices. Home-site

selection and construction, agricultural practices, edible wild foods, weaving, folk and natural medicine, and modern aspects of homesteading are discussed. (Cannot count as credit toward the major.)

212. Microbiology and Man [4-3-2]

Prerequisite: Chemistry 103-104 and 105-106 or Chemistry 121-122 and Chemistry 125-126. Taught spring semester.

Elementary principles of microbiology, emphasis on bacteria and their role in the biosphere and as ethiological agents in disease, practical methods of disinfection, factors of infection and immunity.

213, 214. Human Anatomy and Physiology [3-3-0]

No prerequisites. Taught both semesters. Comprehensive and systemic study of the normal living processes, structure and function of the human body.

213a, 214a. Human Anatomy and Physiology Laboratory [1-0-2] [1-0-2]

Prerequisite: Concurrent or previous registration in Biology 213, 214.

215. Biological Evolution [3-3-0]

Taught spring semester. Principles of biological evolution, detailed discussion of natural selection, adaptation, population genetics, isolating mechanisms, and speciation.

216. Nutrition [3-3-0]

Taught fall semester, 1980. A survey of specific dietary requirements, roles of nutrients, effects of nutrient deficiencies, vitamins, minerals, food absorption and utilization, naturally occurring toxins, food additives, residues, food technology, proteins, and protein quality.

217. Plant Materials for Landscape Use [4-3-4]

Prerequisite: Biology 206 or consent of instructor. Taught spring semester, 1980. Identification and design characteristics of ornamental plants.

295. Elementary Topics in Biology

Prerequisite: Consent of Instructor. Taught both semesters.

A variety of biological or biologically related topics not included in the regular curriculum will be offered. These topics will fill a particular need not filled by regular courses. Biology majors may apply no more than nine credits in topics toward graduation.

301. Microbiology [4-3-4]

Prerequisite: Chemistry 103-104 and Chemistry 105-106 or Chemistry 121-122 and Chemistry 125-126. Taught fall semester.

Introduction to the morphology, physiology, and genetics of bacteria and the bacterial viruses.

302. Oceanography - An Introduction to Marine Science [3-3-0]

Prerequisite: Chemistry 121-122 and Chemistry 125-126 or consent of instructor. Taught fall semester.

Physical and chemical properties of the hydrosphere; application of basic ecological principles to the marine environment; history of oceanography.

302a. Oceanography - An Introduction to Marine Science Laboratory [1-0-4]

Prerequisite: Concurrent or previous registration in Biology 302. Taught fall semester.

303. Landscape Horticulture [4-3-4]

Prerequisite: Biology 217 or consent of instructor. Taught spring semester, 1980.

Principles of good landscape design; use, choice, and cultural practices employed with ornamental plants.

304. Soils [4-3-3]

Prerequisite: Chemistry 103-104 and 105-106 or Chemistry 121-122 and 125-126. Taught spring semester, 1980.

Characterization of soil as a natural system, emphasizing its physical, chemical, and biological properties as they relate to agricultural, urban, and waste disposal uses.

305. Plant Anatomy [4-3-4]

Taught fall semester, 1980.

Structure and arrangement of cells and tissues in higher plants, cytology, physiology, taxonomy, ecology, evolution, and development included where related to anatomy.

306. Environmental Conservation [3-3-0]

Prerequisite: Completion of distribution science requirement or consent of instructor. Taught fall semester.

Study of soil, forest, land, water, air, wildlife, and recreational resources, their interrelationships and modifications by man; steps necessary to use them wisely for present and future generations.

306a. Environmental Conservation Laboratory [1-0-4]

Prerequisite: Concurrent or previous registration in Biology 306. Taught fall semester.

Field observation and study of soil, forest, land, air, wildlife, and recreational resources, their use and misuse. One overnight field trip will be required.

307. Cell Biology [4-3-4]

Prerequisite: Chemistry 104, 106 or 321, 325. Taught fall semester.

Physiology at cellular levels of organization, cell structure and function, proteins and enzyme action, cell energy transformations, cell regulatory processes, and cell differentiation.

308. Plant Physiology [3-3-0]

Prerequisite: One year of chemistry. Taught spring semester, 1981.

A survey of the processes involved in plant growth, mineral nutrition, water relations, translocation, metabolism, and photosynthesis. Control of plant growth and development by hormones, growth regulators, light, and temperature.

308a. Plant Physiology Laboratory [1-0-4]

Prerequisite: Concurrent or previous registration in 308. Taught spring semester, 1981.

309. Embryology of Vertebrates [3-3-0]

Taught fall semester.

Comparative description and analysis of the principles and processes leading to the establishment of the adult vertebrate body plan; gametogenesis.

309a. Embryology of Vertebrates Laboratory [1-0-4]

Prerequisite: Concurrent or previous registration in Biology 309. Taught fall semester.

A laboratory study of the embryology of vertebrates, emphasizing the chick and frog; gametogenesis.

310. Morphology and Phylogeny of Plants [4-3-4]

Taught fall semester, 1979.

Morphology of representative plants studied in the laboratory and field; emphasis on reproductive processes and phylogenetic relationships.

311. Plant Propagation [4-3-4]

Prerequisite: Biology 217 or consent of instructor. Taught fall semester, 1979.

Principles and practices of horticultural plant propagation.

312. Invertebrate Zoology [4-3-4]

Taught spring semester.

A survey of invertebrate biology, including morphology, evolutionary relationships, ecology, physiology and behavior.

313. Genetics [3-3-0]

Prerequisite: Two semesters of college chemistry and two semesters of college mathematics. Taught spring semester.

Mechanisms of inheritance, mutation, recombination, genetic expression and regulation at all levels of biological organization.

313a. Genetics Laboratory [1-0-4]

Prerequisite: Concurrent or previous registration in Biology 313. Taught spring semester.

314. Pathophysiology [4-4-0]

Prerequisite: Biology 212, 213, 214, and two

semesters of chemistry.

Causes and mechanisms of the physiological changes associated with deficiency, infectious and functional diseases. Major entities, such as diabetes mellitus, are treated in detail, while rare disorders are omitted.

395. *Intermediate Topics in Biology*

Prerequisite: Consent of instructor. Taught both semesters.

A variety of biological or biologically related topics not included in the regular curriculum will be offered. These topics will fill a particular need not filled by regular courses. Biology majors may apply no more than nine credits in topics toward graduation.

403. *Marine Biology* [3-3-0]

Prerequisite: Previous registration in Biology 302, 312, or consent of instructor. Taught spring semester.

Taxonomic and ecological investigations of the major marine groups; pollution ecology; applied marine science.

403a. *Marine Biology Laboratory* [1-0-4]

Prerequisite: Concurrent or previous registration in 403. Taught spring semester.

404. *Animal Histology* [4-3-4]

Taught fall semester, 1979.

Comparative study of cells and tissues of invertebrate animals.

407. *General Ecology* [4-3-4]

Taught spring semester.

Survey of major biotic communities and factors controlling the relationship of organisms in their environment. Community structure and metabolism, ecosystems, populations and their distribution emphasized. Several weekend trips will be required.

409. *Comparative Anatomy of Vertebrates* [4-3-4]

Prerequisite: Biology 309 recommended. Taught spring semester.

General chordate anatomy, emphasizing the vertebrates, considered on a comparative and

phylogenetic basis. Laboratory work includes dissection and study of lamprey, sand shark, necturus, cat, and other supplementary forms.

414. *Introductory Biochemistry* [3-3-0]

Prerequisite: Chemistry 245, 321-323, 326. Taught spring semester, 1980.

A survey of the principle constituents of living organisms; the roles and metabolic interconversions of carbohydrates, lipids, proteins, and nucleic acids.

414a. *Introductory Biochemistry Laboratory* [1-0-4]

Prerequisite: Concurrent or previous registration in 414. Taught spring semester, 1980.

415. *Pathology of Ornamental Plants* [4-3-4]

Prerequisite: Biology 217 or consent of instructor. Taught fall semester, 1979.

Identification and control of pathogens and insects of ornamental plants.

416. *Nursery and Garden Center Management* [4-3-4]

Prerequisite: Biology 217 or consent of instructor. Taught spring semester, 1981.

Principles and practices involved with wholesale production and retailing of ornamental plants.

417. *Biogeography* [3-3-0]

Prerequisite: Junior standing and a minimum of 10 semester hours of biology. Taught fall semester, 1979.

Descriptive and interpretative study of the basis of past and present distribution of major plant and animal units of the world.

418. *Animal Behavior* [3-3-0]

Prerequisite: Junior or senior standing or consent of instructor. Taught fall semester, 1979.

The comparative study of animal behavior including both vertebrates and invertebrates. Ethological concepts, physiological mechanisms, and adaptive significance will be emphasized.

418a. [1-0-4]

Prerequisite: Concurrent or previous registration in 418. Taught fall semester, 1979.

Laboratory work includes field trips, discussions, and reports.

490. *Seminar* [1-1-0]

Prerequisite: Biology majors during junior or senior year. Taught both semesters.

Discussion by faculty and students of contemporary problems in biology; presentation of seminar required. One credit is given for two semesters' enrollment.

495. *Advanced Topics in Biology*

Prerequisite: Upper division standing or consent of instructor. Taught both semesters.

A variety of biological or biologically related topics not included in the regular curriculum will be offered. These topics will fill a particular need or will be an advanced treatment of a regular course. Biology majors may apply no more than nine credits toward graduation.

499. *Problems in Biology*

Prerequisite: For junior and senior biology majors only. Taught both semesters.

An opportunity for independent research or literature review with guidance of a faculty advisor. No more than three credits may be submitted for the degree.

Chemistry

Professors: Hammer (Chairman), Sacks
Associate Professor: Chang
Assistant Professor: Demirjian

The Chemistry Department wishes to help students gain a better insight into the world in which we live through an understanding of chemistry. For students taking a one-year sequence, the major areas of chemical investigation—inorganic, organic and biochemistry—are considered in lecture (Chemistry 103-104) and lab (Chemistry 105-106). For science majors, these areas and others are considered in greater depth over a longer period. Majors either enter the sequence for science majors directly or take a part

of the 103 sequence to reach a level of proficiency indicative of success in the majors' sequence. Diagnostic tests, offered by the Counseling Center, help the student select the appropriate starting course. Students without a good background in math (at least two years of high school algebra) are urged to take the special mathematics diagnostic test early in the summer so that enrollment in the Basic Studies mathematics program in August will be possible. Science majors who begin in Chemistry 103 may start the majors' sequence in the spring with Chemistry 121 and 125 and should plan to take Chemistry 122 and Chemistry 126 before the end of the summer session (Chemistry 105 is optional in this sequence).

Chemistry remains an experimental science. Reflecting this, laboratory work is primarily investigatory. Beginning with the first lab course, students learn techniques and methods usable at all levels of study, research, or industrial application. Modern instrumentation is introduced early and used extensively. Laboratory experience is complemented by lectures given by a staff with both academic and industrial research experience.

Several course sequence options are available to students majoring or minoring in chemistry. Programs are individually arranged according to the student's career objectives. Options include preparation as a chemist or chemistry teacher, work in environmental control, and preparation for further study in such fields as medicine, dentistry, or other health-related fields, chemical engineering, and many other chemically-related occupations.

Students wishing to minor in chemistry should consult with the chairman of the Department. In general, one course beyond Chemistry 322 and Chemistry 326 (Organic Chemistry and Organic Chemistry Laboratory) and Chemistry 490 (Seminar) are required.

Students wishing to major jointly in chemistry and another discipline should consult with advisors in both departments. Students seeking secondary education certification should note the requirements of the Education Department and carefully plan their programs with advisors from both departments.

The major in chemistry requires forty-two credit hours in chemistry, including the following courses: 121-122, *General Chemistry*; 125-126 *General Chemistry Laboratory*; 245, *Experimental Chemistry*; 321-322, *Organic Chemistry*; 326, *Organic Chemistry Laboratory*; 341-342, *Physical Chemistry*; 345-346, *Physical Chemistry Laboratory*; 360, *Instrumental Methods*; 480, *Organic Synthesis*; 490, *Seminar*; 495, *Advanced Topics*. Courses in Inorganic Chemistry and/or Bio-chemistry (Biology 414) may be taken to satisfy the remaining credit hour requirements.

Sample Program

Course	Hours
Freshman Year	
Chemistry 121-122	6
Chemistry 125-126 (lab)	4
Mathematics 130, 140	7
English 101-102	6
Physical Education	4
Related field or distribution requirements	6-8
	<u>33-35</u>
Sophomore Year	
Chemistry 321-322	6
Chemistry 245, 326 (lab)	4
Mathematics 240	3
Physics 201-202	8
German 101-102	8
Humanities electives	3
	<u>32</u>
Junior Year	
Chemistry 341-342	6
Chemistry 345-346	4
Chemistry 490	0
Chemistry 395 or 495	3
Physics, Biology or Mathematics elective	3-4
Language	6-8
Electives	3-6
	<u>25-31</u>
Senior Year	
Chemistry 360	2
Chemistry 490	1
Chemistry 495	6
Chemistry 499	3
Electives	18
	<u>30</u>

103-104. Introductory Chemistry [3-3-0]

[3-3-0]

Co-requisite: Chemistry 105-106 or consent of department. 103 taught in fall, spring, and summer semesters; 104 taught in spring and summer semesters.

First semester: a survey of the fundamentals of general and inorganic chemistry. Second semester: a survey of organic and bio-chemistry. (Not intended as a course for science majors, however, Chemistry 103, with or without Chemistry 105, may be taken for elective credit as an introductory course to Chemistry 121 and Chemistry 125.)

105-106. Introductory Chemistry

Laboratory [1-0-3]

Co-requisite: Chemistry 103-104. 105 taught in fall, spring, and summer semesters; 106 taught in spring and summer semesters. An introduction to the experimental techniques and methods of chemistry.

121-122. General Chemistry [3-3-0][3-3-0]

Co-requisite: Chemistry 125-126 or consent of department; prerequisite: Mathematics 110 or satisfactory scores on chemistry placement examination. 121 taught in fall, spring, and summer semesters; 122 taught in spring and summer semesters.

The fundamental principles and laws of general chemistry. Students following the 103, 121-122 track are referred to the statement in the chemistry program description.

125-126. General Chemistry Laboratory

[2-0-5][2-0-5]

Co-requisite: Chemistry 121-122 or consent of department. 125 taught in fall, spring, and summer semesters; 126 taught in spring and summer semesters.

Application of experimental methods to the solution of chemical problems.

245. Experimental Chemistry Laboratory

[2-1-4]

Prerequisite: Chemistry 126. Usually taken concurrently with Chemistry 321. Taught in fall semester.

Chemical kinetics and equilibrium applied

to analytical procedures, with emphasis on instrumental methods.

321-322. Organic Chemistry [3-3-0][3-3-0]

Co-requisite: 245 or 326 or consent of department; prerequisite: Chemistry 122 and 126. 321 taught in fall semester; 322 taught in spring semester.

Chemistry of the organic compounds of carbon. Structure, reactivity and reaction mechanisms.

326. Organic Chemistry Laboratory

[2-0-5]

Co-requisite: Chemistry 322; prerequisite: Chemistry 245. Taught in spring semester. Introduction to common techniques in synthesis and qualitative organic analysis.

341-342. Physical Chemistry [3-3-0][3-3-0]

Co-requisite: Chemistry 345 or 346 or consent of department; prerequisite: Chemistry 322, 326, Mathematics 240, and Physics 202. 341 taught in fall semester and 342 taught in spring semester.

A study of the interactions of matter and energy. Thermodynamics, atomic and molecular structure, solution, kinetics, electrochemistry, quantum chemistry.

345-346. Physical Chemistry

Laboratory [2-0-5][2-0-5]

Co-requisite: Chemistry 342; prerequisite: Chemistry 322, 326.

Techniques used in the study of thermochemistry, electrochemistry, states of matter, molecular structure.

360. Instrumental Methods in

Chemistry [2-1-4]

Taught in spring semester.

Theory and operation of major instruments used in modern analytical work.

395. Special Topics

Selected topics for majors and non-majors with minimum science background.

480. Techniques in Organic Synthesis [2-1-5]

Prerequisite: Chemistry 322, 326. Taught spring semester.

Investigation of modern techniques of organic synthesis.

490. Seminar [1-1-0]

Prerequisite: Departmental consent required. Taught spring and fall semesters. Review of current periodicals. Reports of student or faculty research. Required for senior students, who must present one seminar.

495. Advanced Topics in Chemistry

Prerequisite: Consent of instructor. Taught spring and fall semesters.

Topics from all phases of chemistry will be presented. Credit, lecture, and laboratory to be arranged.

499. Independent Study and Research

Prerequisite: Consent of department chairman. Taught spring and fall semesters. May be taken for up to three credits.

Classical Studies

Associate Professor: Jones (Chairman)

The principal objectives of the Department of Classical Studies are as follows: (1) to contribute broadly to the humanistic education of the undergraduate student both through courses conducted in English in the area of Classical Civilization and through courses involving the reading of Latin literature in the original; (2) to offer to students in related fields specialized training in areas of Classical Civilization and in the Latin language for vocational or professional purposes; and (3) to provide the general student and the surrounding community with opportunities for personal enrichment and development through significant engagement with some major texts and ideas of our cultural heritage.

Classical Civilization

The following courses do not require knowledge of Latin or Greek and are conducted entirely in English. Classical Civilization 201, 202 will satisfy the Humanities Distribution Requirement.

100. English Vocabulary Through Word Origins [3-3-0]

Taught both semesters.

A systematic program designed to aid in the comprehension of words encountered in college-level reading. Analysis of Latin and Greek components in English words, derivatives, Latin phrases and abbreviations, and word histories. Useful for the general student and for students in natural and social science, business, humanities, education, and communications.

201, 202. Mythology and Its Influence [3-3-0]

Taught both semesters.

A thorough study of the principal classical myths, their Eastern origins and connections with Graeco-Roman civilization, and their subsequent literary, anthropological, artistic, and psychological influence on Western culture.

301, 302. Greek and Roman Civilization

Same as History 301, 302. 301 taught fall semester and 302 taught spring semester, 1979-1980. [3-3-0] [3-3-0]

Western civilization from its beginnings to the end of the Roman Empire. First semester includes the civilization of the Near East, Egypt, and Greece to the time of Alexander the Great. Second semester includes Roman Civilization from the time of the Etruscans to the Byzantine age.

303. The Birth of Drama [3-3-0]

Both semesters.

Explorations of the origins, nature, and function of classical drama and of its influence upon subsequent literature of the Western world. Reading and discussion of masterpieces of Greek and Roman drama.

Latin

101, 102. Elementary Latin [4-3-1] [4-3-1]

Independent study; permission of instructor required.

Programmed course using self-teaching techniques to communicate the fundamentals of the language.

Communications

The Department of Communications offers courses in the theory and practice of using various symbolic media to transmit, apprehend, and evaluate information and ideas.

180. Advanced Reading Technique [3-3-2]

Prerequisite: Permission of instructor required for freshmen.

A course for the proficient reader, emphasizing principles and techniques to improve reading speed and comprehension and develop inferential and critical interpretation. Lecture periods include critical discussions of writings presenting opposing points of view, laboratory periods involve individual guided practice in speed, study techniques, vocabulary, concentration, and other reading skills as appropriate.

260. News Writing and Reporting [3-3-0]

Prerequisite: English 101-102. Taught in spring semester.

An introductory journalism course with emphasis on theory and practice of news gathering and writing, especially as they pertain to the print media. Assignments stress writing in simple language and logical sequence.

261. Advanced News Writing and Reporting [3-3-0]

Prerequisite: Communications 260.

Taught in Spring Semester.

Detailed study of the techniques of securing news as well as the sources of news in the fields of public interest. Development of judgment in the style of news writing with emphasis on clarity and maturity of expression. Work in editorials, columns, reviews, and techniques of criticism. Practical exercises and assignments to cover actual news situations.

270. Introduction to Photography [3-2-3]

Introduction to photography and photographic processes. Fundamentals of lighting, exposure, processing, printing, and composition. Introduction to color. Camera required; students must have the use of a 35mm or 2 1/4 square camera, with either range finder or reflex viewing and adjustable focus and 1/stops. A light meter is required (this may be built into the camera). Students will be required to furnish film, film developer, and printing paper.

395-1. Library Research and Bibliography [3-3-0]

Taught fall semester.

Introduction to research in the library, recommended for students who want hands-on guidance in improving their library skills. Development of competence in organization and conduct of research, understanding of library organization and efficient use of library tools, and in construction of bibliographies for term papers or other research projects.

395-2. Publications Photography [3-2-3]

Prerequisite: Communications 270 or equivalent and consent of the instructor.

Principles and practices of publications and journalistic photography. The picture story, picture essay, and picture sequence, spot news and sports photography, combining words and pictures effectively, marketing techniques. Camera required; students must have the use of a 35mm or larger camera with either range finder or reflex viewing and adjustable focus and 1/stops.

Computer Science

Assistant Professors: Asai, Hilliard, Staman (Chairman)

Instructor: Game

The Department of Computer Science offers a curriculum that provides broad coverage both of computer theory and of the many varied applications of the computer. Because of the interdisciplinary nature of computer science, the Department recognizes a major responsibility to provide instruction for students earning degrees in other fields. In this respect the Department operates in support of many programs offered by the College.

While the Department does not currently offer a major in Computer Science, it does administer an interdisciplinary degree in Information Science. In addition, a student majoring in some other discipline may earn a minor in Computer Science. This minor program is especially appropriate for science, mathematics, and business majors as preparation for advanced study or employment. The minor program consists of eighteen to twenty-one hours with Computer Science 220 or its equivalent required as the first course. No other specific courses are required, but students should consult Department members in planning their programs. The following recommendations are made relative to specific orientation in computer science: (1) a quantitative-based minor should include Computer Science 250, 360, 430, and 431; (2) a computer theory minor should include Computer Science 310, 330, 340, and any of the Computer Science topics courses (395 or 495), and (3) a business-oriented minor should include Computer Science 240, 430 and 440.

Computer Science 220 is designed for I.S., business, science, mathematics or engineering students, and is a prerequisite for all other Computer Science courses except Computer Science 350. Of the credits required for graduation, a student may present credits from either Computer Science 200 or 220, but not both.

200. Computers and Society [3-3-0]

(Credit not allowed for Computer Science 200 and 220.) Taught fall semester. Introduction to digital computer systems, their hardware and software. Emphasis on applications and trends in computer usage, with consideration of the impact of computers on society.

220. Computer Structure and Programming [3-3-0]

Prerequisite: Recommended, one semester of college-level mathematics. Taught both semesters. Introduction to basic digital computer concepts and structures including input/output devices, data storage and retrieval, and operating systems. Computer programming, with FORTRAN as the primary language, will be introduced.

240. Business Data Management Techniques [3-3-0]

Prerequisite: Computer Science 220 or equivalent experience. Taught both semesters. Computer-based business systems are introduced. File structure and maintenance are treated. Emphasis is placed on COBOL programming.

250. Computerized Mathematical Techniques [3-3-0]

Prerequisite: Computer Science 220 or equivalent experience; Mathematics 130 or equivalent. Taught both semesters. Computer programming of problems of a mathematical nature, such as solving for the roots of an equation or systems of equations. FORTRAN will be the primary programming language.

310. Programming Language Concepts [3-3-0]

Prerequisite: Computer Science 240 or Computer Science 250. Taught fall semester. Basic concepts dealing with information binding, arithmetic, string handling, data structures, storage and mapping, input/output, and

execution environment. Specialized concepts concerning recursion, multiprocessing, list processing and language extensibility. The FORTRAN, PL/I, APL, ALGOL, and SNOBOL languages will be examined.

330. Computer Organization [3-3-0]

Prerequisite: Computer Science 240, Computer Science 250, or consent of instructor. Taught fall semester. An in-depth study of digital computer design and structure, both hardware and software. The functional organization of the computer will be examined from a logic design point of view through the application of Boolean Algebra. Special emphasis will be placed on the logic elements used in implementing computer functions.

340. Systems Programming [3-3-0]

Prerequisite: Computer Science 330 or permission of the instructor. Taught spring semester. An assembly language programming course, specifically oriented toward the IBM S/360-370 assembly language. Extensive use of examples in the area of systems programming will be included.

350. Systems Analysis [3-3-0]

Prerequisite: Computer Science 200 or Computer Science 220. Taught fall semester. An introduction to the analysis design of computer-based business information systems, including data communication requirements.

360. Modeling and Simulation [3-3-0]

Prerequisite: Computer Science 220 and one year of college mathematics. Taught spring semester. Introduction to model building and simulation using the digital computer. The specialized language GPSS will be applied to the study of discrete stochastic systems. Consideration to be given to experimental design, validation through statistical analysis, and optimization techniques.

395. Elementary Topics [3-3-0]

Prerequisite: Computer Science 220, Computer Science 240 or Computer Science 250 or consent of instructor. Taught both semesters. Topics in computer science of particular interest such as data structures, advanced computer organization, and communications

systems. A maximum of six credits may be offered toward satisfying a degree requirement.

430. Operations Research [3-3-0]

Prerequisite: Computer Science 220, Mathematics 260. Taught fall semester. Introduction to Operations Research. The history and development of OR. Topics include linear programming, duality theory, network flow theory including an introduction to PERT, dynamic programming, game theory, and simulation.

431. Advanced Operations Research [3-3-0]

Prerequisite: Computer Science 220, one semester of calculus. Advanced techniques in Operations Research. Topics include probability, statistical inference, decision theory, queuing theory and its applications, inventory theory, Markov chains, non-linear programming, and classical optimizations.

440. Information Systems Analysis and Design [3-3-0]

Prerequisite: Computer Science 220 and Computer Science 240. Taught spring semester. Introduction to the concepts and techniques of analysis and design for information systems. Data base organization and processing techniques, on-line systems, hardware and software requirements relating to information retrieval and data display. Student teams will design information systems for a real or hypothetical organization.

495. Advanced Topics [3-3-0]

Prerequisite: Computer Science 220, Computer Science 330, and Computer Science 340, consent of instructor. Taught both semesters. Advanced computer science topics such as operating system principles and design, and compiler construction techniques.

499. Independent Research

Prerequisite: Senior standing and approval of the department. Taught both semesters. Individual research on an approved project, requiring computer solution and/or literature review. Credit will vary.



Earth Sciences and Geography

Professor: Wise
Associate Professor: Cones
Assistant Professors: Al-Salam, Prow
(Chairman)

The combination of earth sciences offers a unique opportunity to investigate natural phenomena on planet earth as well as their pertinence and impact on man. Science courses are balanced by culturally oriented offerings and locally important sea-related and maritime subjects.

Geography is one of the oldest sciences and investigates location and spatial distribution. As a synthesizing discipline, geography bridges the gap between physical and social sciences.

Earth Science is also interdisciplinary and investigates processes and interactions of lithosphere, hydrosphere and atmosphere. Geology, physical geography, oceanography and climatology/meteorology are the traditional divisions of earth science with astronomy providing a background for the study of planet earth as part of the universe.

Sciences relating to interactions and interrelated phenomena are of interest to students seeking an interdisciplinary and versatile education. Earth sciences are available as a minor and provide for job preparation. More extensive studies in the geophysical sciences may be carved out as interdisciplinary programs.

101. Maps and Charts [3-3-0]

Taught in spring semester.

A course on introductory cartography and remote sensing favoring a practical approach. In conjunction with Lab Section

103, the student has an opportunity to develop skills, not only in map-reading and photo-interpretation, but also in designing and executing maps, charts and visual aids.

103. Maps and Charts Laboratory [1-0-3]

Practical and experimental techniques of cartography, hydrography and remote sensing.

201. Physical Geology [3-3-0]

The investigation of lithosphere, and the structure, characteristics and history of planet earth. Stress is placed on processes and interactions.

202. Geology of Ocean Basins and Margins [3-3-0]

Taught in the spring semester.

An investigation of oceans, seas, basins and borderlands. The student studies sea-land interactions, shelves, sediments, sea-level changes and the origin and evolution of oceans and ocean basins.

203. Physical Geology Laboratory [1-0-3]

Prerequisite: concurrent or previous registration in 201.

Practical and experimental techniques of basic structural geology and identification of rocks and minerals.

204. Geology of Ocean Basins Laboratory [1-0-3]

Prerequisite: Concurrent or previous registration in 202.

Practical and experimental techniques of geological oceanography.

205. Earth Crust Development [3-3-0]

Paleogeography is a historical geology course

dealing with the investigation of the distribution and changes of oceans, lands, and seas through geologic time. Special emphasis is placed on sea-floor spreading and the effects of continental drift.

211. Physical Geography [3-3-0]

The investigation of spatial interactions and processes on planet earth. The student becomes acquainted with erosion and deposition, diastrophism and volcanism, orogenesis and the study of landforms. The map is the basic tool, and investigations are conducted in terms of human activity. (Formerly 201)

212. Oceans, Seas and Shores [3-3-0]

A marine science course taught from the vantage point of coastal location. Continental borderlands, ice regions, ocean basins and coastal processes are studied with consideration of the effects of the sea upon climate, land and man. (Formerly 202)

252. Economic Geography [3-3-0]

Taught spring semester.

The study of the nature, distribution, use, and conservation of the world's metallic and non-metallic mineral resources. Economic interdependence, regional development, and energy problems are investigated in geographic perspective.

302. Oceanography-Introduction to Marine Science [3-3-0]

Prerequisite: Chemistry 121-122, 125-126 or consent of instructor. Same as Biology 302.

Physical and chemical properties of the hydrosphere; application of basic ecological principles to the marine environment; history of oceanography.

302a. Oceanography-An Introduction to Marine Science Laboratory [1-0-4]

Prerequisite: Concurrent or previous registration in Earth Science 302b. Taught fall semester. Same as Biology 302a.

304. Soils [4-3-3]

Prerequisite: Chemistry 103-104, 105-106 or Chemistry 121-122, 125-126. Same as Biology 304.

Character of soil as a natural system, emphasizing its physical, chemical and biological properties as they relate to agricultural, urban, and waste disposal uses.

322. Exploration of the Universe: Astronomy [2 or 3-3-0]

Prerequisite: Junior standing or consent of instructor. Taught spring semester. Same as Physics 322.

A survey of the history and methods of astronomy, including the solar system, planetary motion, stellar evolution, theories of cosmology, and such recent developments as quasars, pulsars, and black holes. A 16 inch telescope, a radio telescope, and a planetarium are available.

351. Geography of Cities [3-3-0]

Prerequisite: Three hours of Geography or six hours of Political Science.

An analysis of urban settlements and cultural features in the landscape. Location and distribution, geological foundations and cultural patterns are investigated. City functions and classifications, central place theories and land use planning are examined.

360. Political Geography [3-3-0]

Prerequisite: Three hours in Geography, or consent of instructor.

This course investigates geographic and geopolitical factors in the existence of states.

Emphasis is placed in the examination of exercise of national power in conducting operations on land, sea, in the air and in space.

375. Geography of Virginia [3-3-0]

Prerequisite: Three hours in geography, or consent of the instructor. Taught each fall semester.

A regional analysis of Virginia as a key state on the Eastern Seaboard. Chesapeake Bay, effects of sea level changes on the Tidewater region, landforms and physiographic characteristics, economic and cultural patterns are examined. (Overnight field trips involving fish and fall line, mud and mountains, scarps and spelunking are parts of the course.)

395. Topics in Geography [3-3-0]

Selected topics in geographic subjects.

396. Topics in Earth Sciences [3-3-0]

Selected topics in earth sciences subjects.

450. Maritime Geography [3-3-0]

Prerequisite: Geography 202 or 212, or consent of instructor.

The seas are examined as source of wealth, as means of transportation, and as seaward extensions of national interests. Special emphasis is placed on maritime activities and human occupancy of coastal areas.

Economics

Professors: Booker, Maniyar (Chairman)
Assistant Professors: Balan, Colonna

The Department offers the Bachelor of Arts Degree in Economics. The program leading to the B.A. in Economics offers an introduction to the fundamentals of business and economics, with a concentration in the third and fourth years on methods of economic analysis. The curriculum prepares students for positions in business and government and for graduate study.

The department provides theoretical and

analytical tools of economic analysis for the business major in six concentrations: accounting, finance, management, marketing, retailing, and real estate.

The department also offers the concentration in economics for the degree of Bachelor of Science in Business Administration. Even though the concentration in economics is parallel in content and requirements to the baccalaureate degree in economics offered at other institutions, the students in the concentration receive enough exposure to the study of the business world, and therefore they are prepared to seek jobs in business and government enterprises.

For a Bachelor of Arts degree in Economics, a minimum of twenty-seven hours in economics above the 200 level, including Economics 301, 303, 304 and 495 is required. A maximum of forty-two hours in economics above the 200 level may be applied toward the degree. Economics 201-202 are prerequisites for all upper-level courses.

To fulfill distribution requirements of the College, the department offers a basic course in economics designed to give the student understanding of economic systems. The Department also offers courses which complement and support other programs at the College. A minor is offered to students majoring outside the B.S.B.A. program. The courses required for a minor are Economics 201-202, 301, 303-304, and six additional hours above the 200-level economics courses.

For general distribution and basic core requirements, refer to the catalogue section on Requirements for Degrees (B.S.B.A.). The concentration in economics requires the completion of eighteen credits, including these required courses: Economics 301, Money and Banking; Economics 303, Intermediate Economic Analysis (Micro); Economics 304, Intermediate Economic Analysis (Macro). Nine credits are required from the following courses: Economics 302, Public Finance; Economics 351, Urban Development Economics; Economics 385, Comparative Economic Systems; Economics 391, Contemporary Economic Issues; Economics 420,

Business Conditions and Forecasting; Economics 435, History of Economic Thought; Economics 451, The Economics of Labor and Collective Bargaining; Economics 460, Economics of Transportation; Economics 470, International Trade and Finance; Economics 490, Managerial Economics; Economics 495, Topics.

Suggested Course Outline for BA in Economics

Course	Credit	
	Semester	Hours
Freshman Year	I	II
English 101 (Comp. Rhet. & Lit.)	3	3
English 102	4	3
Natural Sciences 101		4
Natural Sciences 102	3	4
Math 110		3
Math 125	3	3
Social Science 201		3
Social Science 202	4	3
Foreign Language 101		4
Foreign Language 102	17	17

Sophomore Year		
Humanities	3	3
Math 120 - Recommended	3	
Math 130 - Recommended		3
Social Sciences	3	3
Economics 301, Money & Banking	3	
Accounting 201 - Recommended		3
Accounting 202 - Recommended		3
Elective	2	2
Physical Education	17	17

Junior Year		
Economics 303, Inter. Micro Theory	3	
Economics 304, Inter. Macro Theory		3
Economics Electives	6	6
Business 408, Quantitative Analysis - Recommended	3	
Electives	3	6
	15	15

Senior Year		
Economics Electives	6	6
Economics 495, Topics		3
Electives	9	6
	15	15

Suggested Course Outline for Economics Concentration

Course	Junior Year	Hours
Economics 301		3
Economics Concentration		6
Business 311, 323		6
Math 125		3
Non-Business Electives		15
		33

Senior Year		
Economics Concentration		9
Business 408		3
Non-Business Electives		19*
		31

*Upon waiver by the Registrar, the student may take up to an additional eighteen hours in business by declaring introductory courses in business as general electives.

200. Consumer Economics [3-3-0]

A functional course designed to meet the needs of individuals and families in dealing with the recognition and solution of growing and complex financial decisions. A practical approach to judgment and decision-making regarding average daily and lifetime economic decisions.

201-202. Principles of Economics [3-3-0]

Taught both semesters.
An introduction to the analytical tools commonly employed by economists in determining the aggregate level of economic activity and the composition of output, prices, and the distribution of income. Problems related to these subjects are considered, and alternative courses of public policy are evaluated. First semester macroeconomics, second semester microeconomics.

225. Economics for Teachers [3-3-0]

Prerequisite: Economics 201-202 or consent of the instructor. Taught once a year.

A survey course in economic fundamentals designed to provide educators with the methodological skills to convey effectively economic principles and analysis to elementary and secondary students. Development of teaching strategies and techniques for maximizing the learning outcomes in the field of economics will be stressed.

301. Money and Banking [3-3-0]

Prerequisite: Economics 201. Taught both semesters.

An analysis of the monetary system with emphasis upon determinants of the money supply and the relationship between money and economic activity.

302. Public Finance [3-3-0]

Prerequisite: Economics 201-202. Same as Political Science 302.

The nature and application of the fundamental principles of obtaining, managing, and disbursing funds for governmental functions at the local, state, and federal levels. The American tax system is given detailed consideration.

303. Intermediate Economic Analysis [3-3-0]

Prerequisite: Economics 201-202. Taught fall semester.

A study of microeconomic theory as related to consumer behavior and demand, production and cost, market structures, distribution theory, and welfare economics.

304. Intermediate Economic Analysis [3-3-0]

Prerequisite: Economics 201-202. Taught spring semester.

A study of classical, neo-classical, and Keynesian Macroeconomics. Economics analysis of national income, output, employment, price level, consumption, investment, rate of interest, demand for money and supply of money, and a study of monetary, fiscal, and other economic policies.

340, 341. Economic History of the United States [3-3-0] [3-3-0]

Same as History 340, 341.

The study of America's economic growth and development from colonial times to the present. Includes the development of agriculture, manufacturing, trade and commerce, improved methods of transportation and communication, employer and employee organizations, governmental impact on the economy, and economic interdependence. Second semester begins with the late 19th Century.

351. Urban Development Economics [3-3-0]

Prerequisite: Economics 201-202.

The theories, problems, and policies of urban and regional development, with emphasis on metropolitan finance, local government organization, economic base, location theory, and manpower utilization. The application of economic theory toward a solution of the urban problems of unemployment, education and training, welfare, housing, health, and transportation.

385. Comparative Economic Systems [3-3-0]

Prerequisite: Economics 201-202.

A comparative analysis of economic systems and the performance of such economies as measured by growth, equity, and efficiency criteria. Theoretical and actual systems such as the U.S., West and East Europe, the Soviet Union, China, Cuba, Norway, Sweden, and Japan are examined.

391. Contemporary Economic Issues [3-3-0]

Prerequisite: Economics 201-202.

A course concentrating on economic analysis of socio-political problems rather than economic theories. It is intended to convey the breadth, scope, and relevance of economic analysis to both public and private decision making of various economic issues. Students will learn to apply specific analytical techniques to various socio-economic problems.

395. Economic Topics [3-3-0]

Topical seminars in economics to cover a variety of areas.

410. Business Conditions and Forecasting [3-3-0]

Prerequisite: Economics 201-202. Taught fall semester.

A study of the cyclical fluctuations in the U.S. economy, with stress upon their causes and measurement, and a survey of methods of business conditions analysis. Emphasis on short-term and long-term methods of forecasting.

435. History of Economic Thought [3-3-0]

Prerequisite: Economics 201-202.

The development of economic analysis with emphasis upon Classical, Marxian, and Keynesian economics.

451. The Economics of Labor and Collective Bargaining [3-3-0]

Prerequisite: Economics 201-202. Taught spring semester.

A study of labor force and the demand for and supply of labor, wage determination, the procedures, agencies, legal framework, and major issues involved in labor-management relations. Attention is also given to the problems of negotiating and implementing a collective bargaining agreement.

460. Economics of Transportation [3-3-0]

Prerequisite: Economics 201-202.

Economic analysis and understanding of transportation systems. Rail, motor, water, air, and pipeline carriers are examined for importance, cost, utility, and inherent comparative advantages. The economic basis for government regulation and for transportation pricing with emphasis on competition and coordination. Transportation policy as reflected in current studies and legislation.

470. International Trade and Finance [3-3-0]

Prerequisite: Economics 201-202. Taught fall semester.

An analysis of the development of international trade theory. A study of balance of payments equilibrium, foreign exchange, international finance, and especially international economic developments since World War II.

490. Managerial Economics [3-3-0]

Prerequisite: Economics 201-202. Taught spring semester.

Economic analysis of problems of particular importance for business firms. Emphasis on discovering policy criteria, identifying alternatives, and selecting and using economic, financial, and management information in decision theory.

495. Economic Topics [3-3-0]

Topical seminars in Economics to cover a variety of areas.

499. Independent Research

Prerequisite: Senior standing and approval of the department. Taught both semesters. Individual research on an approved subject.

Education

Professor: Friedman

Associate Professor: Daly (Chairman)

Assistant Professor: Jenkins

(Director of Student Teaching)

Instructors: Hornback, True

The Department of Education offers programs designed for the preparation of elementary and secondary teachers. Elementary teachers, both primary and upper grades, are prepared through the program leading to the Bachelor of Arts degree in Elementary Education. Secondary teachers, majoring in specific academic disciplines, are prepared through the program leading to a bachelor's degree with a Minor in Secondary Education.

Through these programs and other course offerings, the Department seeks to meet the unique needs of students at an urban, non-residential college and to serve the metropolitan area in the specific fields of undergraduate and in-service teacher education.

A liberal arts core is the basis of the teacher education programs. The professional education component of these programs involves the study of philosophical, cultural, and social

foundations of education; human behavior; curriculum and instructional strategies; and the structure and operation of American education. The teacher education programs include opportunities for practical observation and application of knowledge, theory, and concepts.

The overall objective of these programs is to prepare effective teachers who possess the knowledge, skills, and attitudes necessary to meet the diverse needs of today's students.

Elementary Teacher Education Programs

The program in Elementary Teacher Education, a Bachelor of Arts in Elementary Education, requires the following forty-two semester hours of education hours: Ed. 300, 320, 325, 330, 332, 334, 336, 401, 404, 405, 406, 414 and 420. Each student will be assigned an academic advisor.

Program for Majors in Elementary Education, NK-3 and 4-7.

Course	Hours
Freshman Year	
English 100 level sequence	6
Math 100 level	6
Laboratory Science	8
History 101-02	
(Social Science sequence)	6
Geography 100 or 200 level	3 or 4
Speech 201 or 203	3
	32-33

Sophomore Year	
Literature 200 level sequence	6
History 201 or 202	3
Psychology 201*	3
Economics 201* or 225	3
Social Science Sequence	(3-6)
(Psy. 201-02, Pol. Sci. 101, 102, Econ. 201-02, Soc. 200 and any other 200 level sociology course)	
P.E. 321	3
P.E. 100 level activities	4
**Electives	(6-3)
	31

Junior Year	
Psychology 307 or 308	3
Psychology 312	3
P.E. 318	3
Education 300	3
Education 320	3
Education 325	3
Education 332	3
Education 334	3
Education 336	3
**Elective	3
	30

Senior Year	
English 430	3
Education 330	3
Education 404	3
Education 420	3
**Elective	3
Student Teaching Block (NK-3)	
Education 414E	3
Education 405P	3
Education 406P	3
Education 401K	3
Education 401P	3
	30

Student Teaching Block (4-7)	
Education 414E	3
Education 405E	3
Education 406E	3
Education 401E	3
Education 401U	3

*This course may be used as part of the second social science sequence.

**Students in the Teacher Education Program grades (4-7) must develop an area of specialization in an academic discipline which is a part of the elementary school curriculum, i.e. math, science, language arts, social studies, art and music. Electives should be chosen appropriately so that the student will complete 18 semester hours in a particular curriculum area.

Secondary Teacher Education Program

Secondary Teacher education programs have been developed in cooperation with other academic departments of the College. Students may be prepared to teach in the following subject areas: art; biology; English; English and speech; journalism; or dramatics; French; government; history; music; social sciences; mathematics; and Spanish.

See appropriate teacher education programs in the departmental sections of the catalogue. Academic advisors are:

Art	Professor Rita Hubbard
Biology	Dr. Jean Pugh
English	Dr. Burnam MacLeod
French	Professor David King
Government	Dr. Robert Doane,
	Dr. William Winter
History	Dr. Mario Mazzarella
Music	Professor Rita Hubbard
Mathematics	Dr. John Avioli
Spanish	Professor David King

Secondary Teacher Education Program Advisors in the Education Department: Dr. Elizabeth Daly, Professor John Jenkins.

Secondary Student Teaching Semester

The secondary student teaching semester of twelve semester hours, Education 401, 403, and 414, is offered in the senior year. See Education 401 course description for the appropriate semester. Students must register for the entire student teaching semester and may register for one additional evening course if necessary.

Criteria for Admission to Teacher Education Programs

Students preparing to be teachers must be admitted by the Department of Education to a professional teacher education program. Students must meet the following criteria in order to be admitted:

- (1) an overall quality point average of at least 2.2,
- (2) personal and social fitness and demonstrated potential leadership, as evidenced by current references from three people who have known the

- applicant in different situations,
- (3) physical and mental health sufficient for the tasks to be performed as indicated in a report of a physical examination, (This examination must have taken place within one year prior to the date of application for admittance to the teacher education program)
- (4) competency in voice, speech, and oral and written English as evidenced by,

(A) a grade of at least a C in a speech course,

(B) an acceptable score on the English competencies test designated by the Department, and

- (5) related experiences as evidenced by data supplied by the applicant on the admission form.

If a student fails to meet any of the criteria for admission, he is encouraged to seek advice and counsel from the Admissions and Retention Committee concerning remediation.

Procedures for Application

The student must file an *Application For Admission to the Teacher Education Program* with the Admissions and Retention Committee of the Education Department. This form may be obtained from the Education Department.

The application for admittance must be filed after the successful completion of at least 30 semester hours of course work but prior to the completion of the last 30 semester hours.

A student possessing a bachelor's or graduate degree may seek admission to a Teacher Education Program upon admission to the College as an unclassified student.

Conditional admittance is possible until the semester of the supervised teaching when the student must possess unconditional admittance into a Teacher Education Program. This provides the student with an opportunity to meet admissions criteria while currently pursuing a course of study in a Teacher Education Program.

Retention in the Teacher Education Program

The performance of the student will be monitored throughout the Teacher Education Program by the Faculty of the Education Department. Any student whose performance falls below the level for admission to the Teacher Education Program as established by the criteria may be placed on provisional admittance. Such a change in status is made by the Education Department upon the recommendation of the Admissions and Retention Committee of the Education Department.

Admission to the Student Teaching Semester

Criteria for admission to the student teaching semester are:

1. An overall quality point average of at least 2.2 in all courses completed prior to the student teaching semester.
2. An earned grade of C or above in each of the following courses:
Major (Elementary):
Education 300, 320, 330, 420,
Psychology 307 or 308, and 312.
Minors (Secondary):
Education 300, 303, and 403,
Psychology 307 or 309, and 312.
3. Recommendation from the student's major department.
4. Completion of the *Audio-Visual Competencies Checklist*.

Procedure:

1. Completion of an *Application for Student Teaching* form must be filed with the Director of Student Teaching by March first for fall semester or by October first for spring semester.
2. The *Recommendation for Student Teaching* form will be requested from the student's major department by the Director of Student Teaching.

Certification and Placement

Graduates of teacher preparation programs may apply for a Virginia Teaching Certificate by filing Form T.C. No. 3 with the Director of Student Teaching. In order for a student to be

recommended for the certificate, a grade of at least a C must be earned in student teaching. Throughout the program the applicant must have demonstrated competencies necessary for successful teaching.

During the student teaching semester, the Director of Student Teaching assists students in teacher education programs in compiling a placement file.

Minor in Elementary Education

A student interested in education, but not desiring to teach, may declare a minor in elementary education. The eighteen hour course of study includes Education 300, 312, 320 and other education courses as selected in conference with an advisor.

300. Foundations of Education [3-2-3]

Taught both semesters.

This introductory course offers a theoretical and practical examination of American education through the perspectives of the historian, sociologist, and philosopher. A thirty-hour laboratory observation/participation experience in the public schools is an integral part of the course and is arranged for each student individually.

303. Instructional Materials and Methods—Secondary [3-3-0]

Prerequisite: Speech 201, Education 300; Psychology 307 or 309, and 312; and fifteen semester credits in the subject of teaching choice; or consent of the instructor. Taught both semesters.

An introductory course in the organization of instruction focusing on the application of basic concepts, skills, materials, and media.

312. Educational Psychology [3-3-0]

Same as Psychology 312.

320. Developmental Reading [3-2-1]

Prerequisite: Education 300, Psychology 307 or 308. Taught both semesters.

A basic course in the teaching of reading in the elementary schools. Emphasis is placed on helping children develop reading readiness, word recognition skills, comprehension skills, study skills, and skills needed for reading in the content areas. Reading materials and

methods currently being used in the elementary schools and evaluation are also examined. Supervised practicum experience in a public elementary school is an integral part of this course.

325. Children's Literature [3-3-0]

Prerequisite: English 101-102. Taught both semesters.

A study of children's literature for pre-school and elementary school age children. The course focuses on children's interests, the content of children's literature, ways to bring children and books together, criteria for evaluation, analysis, selection, and utilization of children's books in the total school curriculum. Opportunities are provided for oral interpretation of children's literature.

330. Math in Elementary School [3-3-0]

Prerequisite: six hours mathematics and an acceptable score on a basic mathematics inventory. Taught both semesters.

A course designed to emphasize key concepts, instructional materials, methods, and procedures for teaching elementary school mathematics. Field experience is an integral part of the course.

332. Science in the Elementary School [3-3-0]

Prerequisite: A two-semester laboratory science course. Taught both semesters.
Science instruction for elementary children focusing upon the methods teaching, materials, and literature of the sciences. Emphasis will be placed on the development of teaching skills using inquiry techniques and the processes of science.

334. Art in the Elementary School [3-3-0]

Taught both semesters.

A study of the principles, techniques, materials, and methods used in music programs in elementary school classrooms.

336. Music in the Elementary School [3-3-0]

Taught both semesters.

A study of the principles, techniques, materials, and methods used in music programs in elementary school classrooms.

395. Elementary Topics

A variety of topical courses in education

offered to satisfy changing needs and special interests of students.

401. Student Teaching

Prerequisite: Admission to Student Teaching Semester.

Elementary: Taught both semesters.

Secondary: fall semester: English, math, science
spring semester: foreign languages, social sciences, art and music.

A full-time supervised teaching experience in the public schools offered as part of the student teaching semester.

403. Methods of Teaching [3-3-0]

Prerequisite: Admission to Student Teaching Semester. Taught both semesters.

A study of the objectives, content, methods and materials of instruction relevant to the respective secondary school teaching fields. Curriculum trends in each teaching field will be studied.

404. Teaching the Exceptional Learner [3-3-0]

Prerequisite: 6 hours of 300 level Psychology. Taught both semesters.

A course focusing on the instructional programs and teaching techniques for educating learners who are retarded, emotionally disturbed, learning disabled, speech and/or language handicapped, multi-handicapped, gifted or talented. Characteristics of these exceptional learners and the definitions, procedures, and assurances established by Public Law 94-142 will be studied. The development, implementation, and evaluation of Individual Educational Programs will be emphasized.

405P (NK-3). Curriculum Organization and Instructional Procedures [3-3-0]

Prerequisite: Admission to Student Teaching Semester. Taught both semesters.

A study of curriculum organization, teaching techniques, instructional materials and classroom management appropriate for early childhood education. Instructional strategies will be developed using the elementary school curriculum with emphasis on the language arts. Field experiences included.

405E (4-7). Curriculum Organization and Instructional Procedures [3-3-0]

Prerequisite: Admission to Student Teaching Semester. Taught both semesters.

A study of curriculum organization, teaching techniques, instructional materials and classroom management appropriate for the upper elementary grade levels. Instructional strategies will be developed using the elementary school curriculum with emphasis on the language arts. Field experiences included.

406P (NK-3). Curriculum Organization and Instructional Procedures [3-3-0]

Prerequisite: Admission to Student Teaching Semester. Taught both semesters.

Procedures and techniques for developing an integrated curriculum for early childhood education are studied. Field experiences included.

406E (4-7). Curriculum Organization and Instructional Procedures [3-3-0]

Prerequisite: Admission to Student Teaching Semester. Taught both semesters.

A study of classroom organization, management, methods, and materials appropriate to the upper elementary grade levels. Instructional strategies will be developed using the elementary school curriculum with emphasis on social studies. Field experiences included.

410. Audio Visual Instruction [3-3-0]

Taught both semesters.

A course in the theory, production, and use of audio-visual materials for instruction. Stresses the design, development, and application of materials for various instructional strategies.

414. Educational Measurements and Evaluation [3-3-0]

Prerequisite: Admission to the Student Teaching Semester. Taught both semesters.

A study of the development of instructional objectives, construction and selection of measurement and evaluation instruments, and interpretation of test results.

420. Diagnostic Reading [3-2-1]

Prerequisite: Education 320. Taught both semesters.

A study of techniques for evaluation of read-

ing programs, difficulties experienced by children in learning to read, diagnostic techniques for the classroom teacher, methods of differentiation of instruction, and corrective classroom methods for all elementary school children. Supervised practicum experience in a public elementary school is an integral part of this course.

495. Advanced Topics

A variety of advanced topical courses in education will be offered to satisfy changing needs and special interests of students.

499. Independent Study

Prerequisite: Approval of advisor and instructor. Taught both semesters.

Independent study on an approved topic under the direction of a faculty member.

Engineering

The Physics Department, in cooperation with Old Dominion University, maintains a program in pre-engineering through which students may complete their first two years of engineering study at CNC. For further details of this program see the Physics Department listing.

English

Professors: Millar (Chairman), Sanderlin
Associate Professors: Chambers, Macleod,
Newell, Wolf, Wood
Assistant Professor: Paul

The study of literature holds many values for the student. Since man is concerned with such realities as life, love, the problem of evil, happiness, and death, literature enriches and clarifies life by contributing to an understanding of man's relationship to society, to his physical environment, to his inner self, and to God. Other studies seek similar ends, but in other ways. The method of philosophy and science is to abstract truth from experience; that of literature is to seize truth in

experience. By concentrating the multifarious aspects into a unity, literature offers an understanding of the human being in a deeper and fuller way than a lifetime of experience rarely, if ever, affords.

Recent studies show that, as a preprofessional major, English provides invaluable training in the preparation for four outstanding professional areas. The Department of English is determined that majors (1) reach that degree of mastery of advanced composition and rhetoric which is the *sine qua non* of a specialist in the language, (2) develop the analytical habit of mind characteristic of the liberal arts graduate who can succeed in many different professions, (3) master techniques of research and creative thinking which the study of literature provides, and (4) read judiciously and discriminately, realizing that the degree to which they invest time wisely and fruitfully will determine whether or not they will continue through the years to grow as persons, gaining in understanding of other people and of themselves and in capacity for significant pleasure.

English 101-102, English 103-104, or (if approved by the English Department) English 101-104 or English 103-102 is required of all students unless exempted by the English Department. Recommended placement of each student in English 101 or English 103 is done on the basis of precollege verbal scores and educational backgrounds as well as career interests and potential majors.

A major in English requires satisfactory completion of English 101-102 (or the equivalent as described in the preceding paragraph) and continued competence thereafter in written or oral expression (transfer students and others desirous of majoring in English, but weak in composition skills will be required to take English 309), English 201-202 and English 205-206, and at least twenty-four but not more than forty-two further credits in courses above the 200-level in the Department, with not more than nine credits in writing courses above the sophomore level and no more than three credits in English 395 (topics) courses. Transfer students who major

in English are required to complete both English 201 and English 202, but such students may be able to exempt themselves from either or both by taking CLEP tests or by taking the GRE special examination in the junior year and making a satisfactory score. Transfer students are also required to take the English 205, 206 sequence unless they bring credits for equivalent courses with them from their former colleges.

In addition, the student majoring in English is required to take six semester hours of *Shakespeare* (English 421, 422) or three semester hours of *Shakespeare* (either English 421 or 422) and three semester hours of either *Chaucer* (English 401) or *Milton* (English 426). English 490 *Senior Seminar*, is required of all majors; either English 430 or 431 is required for those who plan to teach English in Virginia secondary schools. *Shakespeare* and *Senior Seminar* will be offered every year; all other upper-level courses will be offered at least every other year except when emergency situations prevent such repetition. Two semesters of English 341, 342, 343 will be offered every year, since some American literature is required of those planning to teach in the Virginia secondary schools, and English 430 will be offered every semester because it is required of those planning to teach in the Virginia elementary schools.

A balanced program that takes into account the student's abilities and career objectives will be worked out with the department advisor, assigned when the student declares an intention to major in English, usually towards the end of the sophomore year. Supporting courses, including history, fine arts, modern and ancient languages, philosophy, speech, and classical studies, will be recommended by the advisor.

Students wishing to minor in English must take twenty-one hours of work in English, of which eighteen must include English 201, 202, two of the following, English 341, 342, and 343, one of the following, English 421 or 422, and one of the following, English 401 or 426.

Students who have had an unusually excellent background in literature and writing either in school or in life experiences may be able to arrange for advanced placement in English so as to be excused from English 101-102 or at least from English 101. The English Department provides three different methods by which individual students may seek advanced placement.

(1) The CLEP testing program. Beginning in October 1979, students may apply only the CLEP examination with essay toward credit at CNC. A student taking the CLEP examination without essay must submit a supplementary impromptu theme with the test, through the Counseling Center. (2) The Advanced Placement program. Successful completion of Advanced Placement in senior high school and a grade of 5 on the APE test of the College Entrance Examination Board will earn the student credit for 101-102. A student earning a grade of 3 or 4 may apply for credit or exemption under (4) below, or may take the CLEP examination. (3) A's and B's all the way through senior high school in a college-bound English section and a College Board verbal score of approximately 600 or above. The student must voluntarily submit to an advanced placement test given by the Department of English at Christopher Newport College, and the Chairman's Advisory Committee scores the test and decides upon advanced placement. (4) Upon application to the Chairman of the English Department and at the discretion of the department, a superior student may be allowed exemption and, in some cases, credit for 101-102. An advanced placement test is usually required. A student who gets a B or better in 101 or 103 may be allowed with the permission of the instructor and the Dean of Academic Affairs to take 102 or 104 and 201 (or 205 or 207) simultaneously.

Sample Program for English Majors

Course	Hours
Freshman year	
English 101-102 (or 103-104)	6
Laboratory Science	8
Ancient or Modern Foreign Language	8
Social Science requirement	6
Physical Education	4
	32

Sophomore Year	
English 201-202	6
English 205-206	6
Social Science requirement	6
Foreign Language	6
Philosophy 101-110 or Math. distribution requirement (Va. certification)	6
Communications 201	3
	33

Junior Year	
300-and 400-level English courses	15
300-and 400-level elective	15
	30

Senior Year	
English 421-422 or English 421 and English 401 or 426	6
English 490	3
300-and 400-level English electives	6
300-or 400-level electives	15
	30

Sample Program for English Majors in the Teacher Education Program (Minor in Secondary Education)

Freshman	
English 101-02 (or equivalent)	6
Laboratory Science	8
Psychology 201-02	6
Mathematics	6
Physical Education	4
	30

Sophomore	
English 201-02	6
English 205-06	6
History 201-02	6
Speech 201	3
Physical Education 321	3
Electives	8
	32

Junior	
Education 300, 303	6
Psychology 307 or 309, 312	6
English 309	3
Adolescent Literature	3
American Literature	6
English 326 or 327	3
English elective	3
	32

Elective	2
	32
Senior	
English 490	3
English 421-422 or 421 and English 401 or 426	6
English 430	3
Education 401, 403E, 414, 404	15
Electives	3
	30

101-102. Introductory Rhetoric and Composition [3-3-0]

Taught each semester. A study of the fundamental principles of composition and rhetoric, with paragraphs and themes arising from this study. A documented paper of approximately 1500-2000 words, related to the student's major or to a special subject of interest, is required of all 102 students. No student may take English 102 unless he or she has passed or earned credit for English 101 or its equivalent or has received the English Department's approval. In some cases, the English Department will allow a student who has successfully completed 101 to take English 104 in place of 102.

103-104. Composition, Rhetoric and Literature [3-3-0]

Taught each semester. A study of the principles of composition and rhetoric and an introduction to the major literary forms, with themes arising from this study. A documented paper of approximately 1500-2000 words related to a major literary genre is required of all students in English 104. No student may take English 104 or its equivalent unless he or she has passed or earned credit for English 103 or its equivalent or has received the English Department's approval. English 103-104 may substitute anywhere that English 101-102 is given as a prerequisite or requirement.

No student may take more than one six-hour sequence of 100-level English courses.

201, 202. English Literature [3-3-0] [3-3-0]

Prerequisite: 6-hr. freshman English se-

quence. Taught both semesters. A survey of English literature, emphasizing the major writers and dominant literary trends, first semester from Beowulf through Johnson, second semester from Blake to the present.

205, 206. Survey of World Literature [3-3-0] [3-3-0]

Prerequisite: 6-hr. freshman English sequence. Taught both semesters. A study of literary masterpieces of the Western and Eastern worlds from classical to modern times, with special emphasis on literary perspectives, epic, romantic, satiric, tragic, comic and ironic. All study will be based on English translations.

207, 208. Literature and Ideas [3-3-0] [3-3-0]

Prerequisite: 6-hr. freshman English sequence. Taught both semesters. A study of literature as it interprets man's understanding of himself and society. Focuses on ideas of recurring interest, such as love, justice, religion, and nature. Especially recommended to non-English majors as their Humanities distribution requirement.

300. The Bible as Literature [3-3-0]

Prerequisite: At least one course in the 201-208 sequence. Taught in fall semester. A literary study of the Old and New Testament with emphasis upon artistic and humanistic merits of these collections. Segments of the Apocrypha will be discussed as well.

301. English Literature of the Sixteenth Century [3-3-0]

Prerequisite: At least one course in the 201-208 sequence. A critical and historical study of the major prose, poetry, and drama of the sixteenth century, exclusive of Shakespeare.

302. English Literature of the Earlier Seventeenth Century [3-3-0]

Prerequisite: At least one course in the 201-208 sequence. A critical and historical study of the major prose, poetry, and drama produced in England between 1600 and 1660, exclusive of Shakespeare and Milton.

303. English Literature of the Restoration and Earlier Eighteenth Century [3-3-0]

Prerequisite: At least one course in the 201-208 sequence. Taught in fall semester. A critical and historical study of the major works of the Age of Dryden (exclusive of Milton) and the Age of Pope.

304. English Literature of the Later Eighteenth Century [3-3-0]

Prerequisite: At least one course in the 201-208 sequence. Taught in spring semester, 1978-79. A critical and historical study of the prose, poetry, and drama created in England between 1740 and 1798, with some emphasis on the novel.

309. Advanced Composition [3-3-0]

Prerequisite: 6-hr. freshman English sequence. Taught spring semester. Practice in writing prose non-fiction. Opportunity to develop skills for academic as well as other types of prose such as feature article and autobiographical essay. Especially recommended to liberal arts majors who completed their 101-102 requirement before coming to the College and to all students who need further training and practice in correct and effective writing.

311. English Literature of the Romantic Movement [3-3-0]

Prerequisite: At least one course in the 201-208 sequence. Taught in fall semester, 1979-80. A critical and historical study of the major Romantics (from Blake through Keats).

323. English Literature of the Victorian Age [3-3-0]

Prerequisite: At least one course in the 201-208 sequence. Taught in spring semester, 1979-80. A critical and historical study of the major works produced in England from 1832-1901.

324. Twentieth-Century British Literature [3-3-0]

Prerequisite: At least one course in the 201-208 sequence. Taught in spring semester, 1978-79. A critical and historical study of the major poetry, drama, and fiction produced in

Great Britain and Ireland from 1900 to the present.

326. Major World Fiction of the Twentieth Century [3-3-0]

Prerequisite: At least one course in the 201-208 sequence. Taught in fall semester, 1979-80. A critical study of the great fiction produced in countries of the Western World (including England and America) since the beginning of the century, with emphasis on the novel.

327. Major Dramas of the Modern World [3-3-0]

Prerequisite: At least one course in the 201-208 sequence. Taught in fall semester, 1978-79. A critical study of the great dramas produced in countries of the Western World (including England and America) from 1880 to the present.

339. Survey of British Drama [3-3-0]

Prerequisite: At least one course in the 201-208 sequence. A critical, analytical, and historical survey of the major British dramas (English and Irish) from the Renaissance (exclusive of Shakespeare) to the end of the nineteenth century.

340. Survey of the British Novel [3-3-0]

Prerequisite: At least one course in the 201-208 sequence. Taught in spring semester, 1978-79. A critical, analytical, and historical survey of selected British novels (English and Irish) from the middle of the eighteenth century to the end of the nineteenth century.

341. American Literature, I [3-3-0]

Prerequisite: At least one course in the 201-208 sequence. A critical and historical analysis of American writers from the beginning to Herman Melville.

342. American Literature, II [3-3-0]

Prerequisite: At least one course in the 201-208 sequence. A critical and historical analysis of American writers from Herman Melville to Edwin Arlington Robinson.

343. Modern American Literature [3-3-0]

Prerequisite: At least one course in the 201-208 sequence. Taught in fall semester, 1978-79. A critical and historical analysis of American writers from Edwin Arlington Robinson to the recent past.

351. Fiction Writing [3-3-0]

Prerequisite: English 101-102 and consent of instructor. Taught fall semester. Intensive exercises in the writing of fiction, with emphasis on the short story. Attention to selected examples by contemporary authors. Manuscripts read and discussed in class. Individual conferences.

352. Poetry Writing [3-3-0]

Prerequisite: English 101-102 and consent of instructor. Taught in 1979. Intensive exercises in the writing of poetry. Analysis of contemporary techniques. Manuscripts read and discussed in class.

353. Business and Technical Writing [3-3-0]

Prerequisite: English 101-102. Taught in fall semester. The principles and practice of writing for readers with business and technical backgrounds of varying degrees. Includes the preparation of reports, memoranda, letters, proposals, abstracts, resumes, supporting documentation, tables, graphs, and figures and the adaptation of written material for oral presentation. Valuable to majors in business, governmental administration, the sciences, and pre-engineering but also to humanities-area majors who may work as writers and editors in business, industry, or government.

395. Social Topics in British and American Literature [3-3-0]

Prerequisite: At least one course in the 201-208 sequence. Taught either semester. A seminar in major authors, literary concepts, or topics related to historical periods, with subject matter and instructor changing each time the course is offered. The seminar topic will represent both general student interest and the specialty (or research in progress) of an individual member of the department. Subjects will be chosen to appeal to students at

large as well as to English majors. English majors may enroll only once for credit.

401. Chaucer [3-3-0]

Prerequisite: At least one course in the 201-208 sequence. Taught in spring semester, 1978-79. A critical study of the works of Chaucer in the original Middle English with special emphasis on *The Canterbury Tales*.

421, 422. Shakespeare [3-3-0] [3-3-0]

Prerequisite: At least one course in the 201-208 sequence. Taught both semesters. A critical study of the major works of Shakespeare. At least one semester is required of all English Majors.

426. Milton [3-3-0]

Prerequisite: At least one course in the 201-208 sequence. A critical study of the major works of Milton with special emphasis on *Paradise Lost*, *Paradise Regained*, and *Samson Agonistes*.

430. Aspects of the English Language. [3-3-0]

Prerequisite: At least one course in the English 201-208 sequence. Taught both semesters. An introduction to all the major aspects of the English language (phonology, morphology, syntax, and semantics) considered in terms of the traditional, structural, and transformational-generative Schools of modern grammar study. Readings in and discussions of the historical development of language, vocabulary building and processes of word formation, and metalinguistics. An emphasis on the relation of all types of grammar study to writing and to the teaching of correct standard speech and writing.

431. Structural History of the English Language [3-3-0]

Prerequisite: At least one course in the 201-208 sequence. Taught in spring semester, 1978-79. An historical study of the development of the English language in England and the United States.

490. Seminar: Topic and Research [3-3-0]

Prerequisite: English 201-202 and junior or senior standing. Taught in spring semester.

Required of all English majors. An in-depth study of a particular writer, genre, or topic to be announced annually; study of research techniques and materials and general bibliographical sources; major documented paper required of each student.

Fine and Performing Arts

Fine Arts, Music, Theatre, Speech Communication, and Cinema

Professor Van Orden (Chairman)

Associate Professors: Hines, Koch

Assistant Professors: Brockett, Hubbard, Warren

The Department of Fine and Performing Arts views the arts critically and historically as they provide a living record of man's experiences and perceptions. The arts today represent a continuation of the past, and students working toward their chosen goals of artistic creation acquire both technical expertise and historical understanding of the framework of which present performance is a continuum.

The Department defines speech communication in its broadest sense as including all those verbal and nonverbal processes by which people influence one another.

The Department offers a **Bachelor of Arts Degree in Fine and Performing Arts** with a concentration in either art, music, or theatre. A minor in each of these areas is available also, and the department is planning to add a minor in speech communication.

In addition to the regular full-time faculty, the Department employs more than twenty professionals with expertise in various specializations in order to prepare students for the highly competitive professional world or graduate school.

The **Bachelor of Arts Degree in Fine and Performing Arts** requires that a student fulfill college distribution requirements and take a minimum of 30 hours in his concentration of art, music or theatre, and six hours in

each of the other two disciplines. Specifics for each program are given below. The student in planning his or her program should select a departmental faculty counselor during the freshman year. A minimal grade of C is required on all courses counted towards the student's major.

Art Concentration

The art program is essentially pre-professional, providing the student with a thorough liberal arts background while offering the fundamentals required in drawing, painting, design, ceramics, and sculpture. Each of these disciplines allows advanced work so that the student will be prepared to pursue a career in a chosen art specialty at graduate level.

A student concentrating in art for the

Bachelor of Arts Degree in Fine and Performing Arts must take Fine Arts 201 and 202 and a minimum of 24 additional hours in art plus 6 hours in music and 6 hours of theatre.

Art minor: A student may elect to minor in either studio art or art history. The student selecting studio as a minor must take Art 201 and 202 and twelve hours in studio classes, six of which must be at an advanced level. The student selecting art history must take Art 201 and 202, nine hours of advanced art history, and six hours in studio. It is equally necessary for the studio-oriented student to have a knowledge of the cultural heritage as it is for the art history student to have some experience in the problems of creating a particular art object.

201, 202. Introduction to the Arts [3-3-0]

201 taught fall semester; 202 taught spring semester.

The development of architecture, sculpture, and painting from pre-historic times to the present day. The first semester concludes at 1492. The second semester begins at this date and continues to the present.

Studio Art:

218, 219. *Basic Drawing and Design*. [3-2-4]
Taught both semesters.

218 is the prerequisite for all other studio courses, serving as a foundation course in the fundamentals of design and drawing. 219 is a continuation with special emphasis on individual design problems and advanced drawing techniques.

231. Fundamentals of Painting [3-0-6]

Prerequisite: Fine Arts 218 or consent of instructor. Taught both semesters.

A course in the problems of painting in various mediums.

241. Ceramics [3-0-6]

Prerequisite: Fine Arts 218 or consent of the instructor. Taught both semesters.

An introductory course in pottery with an emphasis on hand building.

251. Sculpture [3-0-6]

Prerequisite: Fine Arts 241 and consent of the instructor. Taught spring semester.

A basic course in the problems of three-dimensional design.

321. Life Drawing [3-0-6]

Prerequisite: Fine Arts 218 or consent of instructor. Taught fall semester.

An introduction to drawing the human figure with attention to design and anatomy.

323. Painting [3-0-6]

Prerequisite: Fine Arts 231. Taught both semesters.

A course in painting with particular emphasis on the student's development in design and competence in one medium.

325. Life Painting [3-0-6]

Prerequisite: Fine Arts 321 and consent of instructor. Taught spring semester.

A course in the problems of painting the human figure with attention to portraiture as well as the figure as a design element.

341. Advanced Ceramics [3-0-6]

Prerequisite: Fine Arts 241 and consent of the instructor. Taught both semesters.

The emphasis is on the individual student's competence and mastery of wheel techniques, green ware, and biscuit decoration.

351. Advanced Sculpture [3-0-6]

Prerequisite: Fine Arts 251 and consent of instructor. Taught fall semester.

The development of competence in one sculpture medium (e.g. clay or stone) and one end product (e.g. portraiture).

395. Special Topics (Credits vary)

Prerequisite: Consent of the instructor.

Studio work in such areas as advanced water color, serigraphy, layout, and others as determined according to special student needs and interests.

401. Individual Problems in Painting [3-0-6]

Prerequisite: Fine Arts 323 and consent of instructor. Taught both semesters.

Special individualized problems in painting.

Art History

371. Modern Art [3-3-0]

Prerequisite: History 101, 102; Fine Arts 201, 202, or consent of the instructor. Taught spring semester, 1980-81.

The development of modern art from the late 18th century to the present day. The course is concerned with art objects as they reflect the changing social, political and economic revolutions of the period as well as developments of different aesthetic theories and art criticism.

372. Arts in the United States [3-3-0]

Prerequisite: History 201, 202; Fine Arts 201, 202, or consent of the instructor. Taught spring semester, 1979-80.

A study of the arts in America from colonial times to World War II as they reflect upon the varieties of the American experience.

373. Arts of Humanism [3-3-0]

Prerequisite: History 101, 102; Fine Arts 201, 202, or consent of the instructor. Taught fall semester 1979-80.

A study in the development of art from the

early Renaissance through the 16th century. Special attention is given to the changing role of the artist, the effects of Roman and Greek archaeology, the effects of increasing nationalism as well as the establishing of our conceptual vision of the world.

374. Arts of the Non-Western World [3-3-0]
Prerequisite: Fine Arts 201, 202, History 101, 102, or consent of the instructor. Taught fall semester 1980-81.

A study of the arts of India, China, and Japan as well as the cultures of Africa, Oceania and pre-Columbian America. The emphasis is on the conceptual differences between these developed complex areas as they differ from our own.

395. Special Topics in Art History [3-3-0]
Prerequisite: Fine arts 201, 202, or consent of the instructor.

Art history courses in such areas as Baroque and Rococo, Classical and, Ancient, as determined according to special student needs and interests.

Independent Study:

499. Independent Study in Art History or Art Studio [Credits vary]

Offered at the discretion of the Department and with the consent of the instructor. Prerequisite for Art History. Six hours upper-level history course.

Prerequisite for Art Studio courses: Six hours of 300-level studio courses. The problems to be specialized according to student needs and instructor's judgement.

Note: In all studio courses, the student is responsible for the purchase of all personal and expendable art materials.

The department reserves the right to select a work from any student in studio classes for the college collection and/or for use in exhibition and teaching purposes.

Sample Program for a Concentration in Art

Course	Hours
Freshman Year	
English 101-102	6
Math or Philosophy	4-6
Social Science or Foreign Language	6-8
Art 218, 219	6
Electives	6
	28-32

Sophomore Year	
Art 201, 202	6
Studio elective	6
Intro. to Music 201-202	6
Social Science elective	6
Natural Science elective	6-8
	30-32

Junior Year	
Studio elective	6
Theatre 201, 211 or Theatre 212, 318	6
Electives	18
Physical Education	4
	34

Senior Year	
Studio electives	6-12
Electives	18-24
	30

Sample Program for Art Teacher Education Program (Minor in Secondary Education)

Course	Hours
Freshman Year	
English 101-102	6
Math	6
History 201-202	6
Art 218, 219	6
Natural Science	8
	32

Sophomore Year	
Art 201, 202	6
Art 241, 341	6
Music 201-202	6
Psychology 201-202 (or 203)	6
Speech 201	3
Education 300	3
	30

Junior Year	
Art 231, 323, 251, 351	12
Theatre 210-211	6
Physical Education	
Activities Courses	4
Psychology 312	3
Education 303	3
Physical Education 321	3
	31

Senior Year	
Psychology 307 (or 309)	3
Education 334, 404	6
Education 401, 403, 414	12
Electives	10
	31

Music Concentration

The music program balances a scholastic approach to music with high performance standards and prepares the student for either graduate study or professional career opportunities. The faculty is cognizant of the liberal arts emphasis on education today and of the technical knowledge expected of professional musicians. To that goal emphasis is placed on the traditional music courses, theory and history, and these are supplemented with advanced courses and independent study geared towards the students' own career objectives. The student constantly learns to relate knowledge learned in the classroom to his own musical performance.

Most students concentrate in musical performance. Students planning to pursue graduate study in theory, composition, or musicology can concentrate in those areas as an undergraduate. Advanced work in theory and musicology is done through independent study and culminates in the senior year with a major research project and thesis. Composition is taught as an applied music and culminates with a full concert of the student's

original compositions. Specific details on these special programs are available from the Director of Music.

An important aspect of a student's music education is his increasing familiarity with musical literature from various eras and in various genres. Students are expected to attend student recitals, concerts on the two CNC concert series, and various professional and quasi-professional concerts and productions presented throughout the Tidewater area.

Regular student recitals as well as studio recital are held throughout each semester. All students studying major applied music are expected to perform on at least one student recital each semester, although applied music teachers may waive this requirement for individual students during their first semester at CNC.

A senior recital is required of all performance majors. Senior recitals are presented at the completion of applied music 432. The recital must be a minimum of one hour in length not including the intermission, must represent a cross-section of the literature for the instrument, and must represent a level of difficulty appropriate to a college graduate with a degree in performance. Recital approval must be given by the examining jury in the semester preceding the semester in which the recital is to be presented. Approval is given on the basis of the suitability of the proposed program and the reasonable assumption that the student is technically capable of completing the program.

All music students other than keyboard majors must pass a piano-proficiency test prior to graduation. An acceptable level of proficiency requires the ability to read at sight a simple hymn, a chorale by J. S. Bach, an easy piano selection, and a simple vocal accompaniment. Proficiency tests are offered once each semester. Students who have declared music as a major can take the test at any time in their program but will be allowed to take it only twice without studying piano as an applied music for credit. There is no fee for the test. Students should notify the Director of Music of their intent to take the test during the first two weeks of the semester in which

they plan to take it.

The minor program in music performance consists of a minimum of eighteen credits above the 100-level. The following courses are required: Music 213-214, Advanced Theory of Music; Music 303-304, History of Western Music; and Applied Music 231-232. The student must present a minor recital (half-hour) as the completion of Applied Music 232 or of the highest level of applied music he undertakes. Approval of the recital program must be attained in the semester immediately preceding the semester in which the recital is given.

Students desiring to teach public-school music can prepare to do so by planning their program to include courses offered by the Department of Education. Owing to the comprehensive state teacher education requirements, it behooves the student to make his decision to follow the education track during his freshman year. Specific details are available from the Director of Music, and a sample program is given below.

Sample Program

Bachelor of Arts in the Fine and Performing Arts
Concentration in Music Performance

Course	Hours
Freshman Year	
Music 113-114	10
Applied Music 131-132	4
English 101-102	6
Philosophy 101-102	6
Physical Education	4
Music 100 (both semesters)	2
	32
Sophomore Year	
Music 213-214	8
Applied Music 231-232	4
Psychology 201-202	6
History 101-102	6
Fine Arts 201-202	6
Music 100 (both semesters)	2
	32

Junior Year	
Music 303-304	6
Applied Music 331-332	4
Modern Language 101-102	8
Theatre 201-202	6
Electives	6
Music 100 (both semesters)	2
	32
Senior Year	
Music (Conducting)	3
Music (20th Century)	3
Applied Music 431-432	4
Modern Language 201-202	8
Electives	9
Music 100 (both semesters)	2
	29

Sample Program

Music Concentration

Teacher Education Program
(Minor in Secondary Education)

Course	Hours
Freshman Year	
Music 113-114	10
Applied Music 131-132	4
English 101-102	6
History 201-202	6
Physical Education	4
Music 100 (both semesters)	2
	32
Sophomore Year	
Music 213-214	8
Applied Music 231-232	4
Psychology 201-202	6
Math 110-120	6
Fine Arts 201-202	6
Music 100 (both semesters)	2
	32
Junior Year	
Music 303-304	6
Music (Conducting)	3
Applied Music 331-332	4
Biology 101-102	8
Psychology 312	3
Education 300	3

Theatre 201	3
Music 100 (both semesters)	2
	32
Summer Session	
Physical Education 321	3
Speech 201	3
Education 404	3
	9
Senior Year	
Applied Music 431-432	4
Theatre 202	3
Psychology 307	3
Education 303	3
Education 336	3
Education 401	6
Education 403	3
Education 414	3
Music 100	1
	29

Music Courses

100. Mixed Chorus [1-0-3]

Taught both semesters.

Choral literature by major composers is studied through performance. Vocal emphasis is placed on diction, phrasing, breath control, dynamic expression and tone production. Works are performed in their original language. Auditions are required, and prospective chorus members are encouraged to contact the Director of Music before registering. Students can register for Mixed Chorus each semester, but no more than eight credits can be counted toward graduation.

201-202. Introduction to Music [3-3-0] [3-3-0]

201 is taught in the fall semester and 202 is taught in the spring semester, both 201 and 202 are taught in the summer.

A course that traces the stylistic development of music chronologically through historical periods from the Middle Ages to the present day. Students become familiar with major works of the most important composers from each period. The first semester includes periods before 1750, and the second semester continues to the present day. Concert attendance is required. This course fulfills CNC's humanities distribution requirement and is recommended for all non-music majors.

113/114. Elementary Theory of Music [5-3-3] [5-3-3]

Prerequisite: Consent of the instructor.

113 is taught in the fall semester and 114 is taught in the spring semester. A beginning course in the study of tonal harmony and ear training. Triads, seventh chords, non-harmonic tones, and simple modulation are studied through partwriting and analysis. Ear training is pursued through sight singing and melodic, rhythmic, and harmonic dictation.

213-214. Advanced Theory of Music [4-3-2] [4-3-2]

Prerequisite: Music 114.

213 is taught in the fall semester and 214 is taught in the spring semester. This course is a continuation of Music 113, 114, Elementary Theory of Music. Students deal with advanced harmonic techniques, including altered chords, chromatic harmony, and modulation. Formal and harmonic analysis is emphasized in the second semester. Ear training includes more difficult sight singing and melodic, rhythmic, and harmonic dictation. This course is required of all music majors.

295. Jazz

Taught summer 1979.

The course traces the development of jazz through its various phases. A historical background is identified through roots in Africa and then an examination of the nineteenth-century American environment that fostered the rise of jazz as a genre at that time. Movements studied include ragtime, blues, pre-World War I jazz, jazz in the 20's, the big band era, the swing era, and the later developments of bebop, cool jazz, third-stream jazz, and free jazz.

303-304. History of Western Music [3-3-0] [3-3-0]

Prerequisite: Music 114 or consent of the instructor.

303 is taught in the fall semester and 304 is taught in the spring semester. A course that surveys musical philosophy, style, and literature from the ancient world through the twentieth century. Although no written pa-

pers are required, the course requires a significant amount of outside reading and library work. This course is designed primarily for and is required of all music majors.

395. Conducting [3-2-2]

Prerequisite: Music 114 and 304 or consent of the instructor.

Taught in the fall semester.

A course in the basic problems of vocal and instrumental conducting of small and large groups. Baton techniques, score reading, rehearsal techniques, and musical interpretation of compositions from various style periods are studied. NOTE: This course may be renumbered to Music 414.

395. Music in America [3-3-0]

Taught summer 1980.

A course in which music is studied as a part of America's cultural history. Beginning with music transported to the New World by the Pilgrims, musical activity is traced chronologically into the twentieth century. Also the development of an indigenously American expression is identified.

495. Twentieth Century Music [3-3-0]

Prerequisite: Music 214 and 304 or consent of the instructor. Taught in the spring semester.

A course that traces the major developments of the twentieth century in musical composition and style. An analytical approach is utilized in the study of harmonic, melodic, and rhythmic usage in contemporary composition generally, as well as the newly developed techniques of serial and electronic composition. A historical approach is utilized in the examination of representative literature.

499. Independent Study

Prerequisite: Junior or senior standing.

Taught each semester and summer.

Independent study provides special opportunities for students to explore special areas of music and music research outside the limitations of regular music offerings. Students desiring to pursue independent study should first talk to the Director of Music and then

submit a proposal for his project. Subject to the acceptability of the project a faculty member will be assigned to work with the student. All independent study in the music program carries three credits per semester.

Applied Music

Applied music at CNC is not intended to serve only those students pursuing a major or minor in music. All students with a sincere interest in music can take applied music, subject to policies established by the Department of Fine and Performing Arts and the Dean of Academic Affairs.

Applied music is taught in private lessons for which additional fees are charged. Instruction is available in piano, organ, strings, woodwinds, brass, and voice. Music composition is also taught as an applied music.

Students considering applied music should first see the Director of Music. Registration is not allowed without his approval. Applied music is taught each semester and summer.

130. Applied Music. Piano, Strings, Woodwinds, Brass, Voice

Taught both semesters and summers.

Students receive one thirty-minute lesson per week and one credit per semester. Lessons can be taken by beginners or students at any level of advancement. Compositions studied are determined by the instructor according to the level and ability of the student, but only compositions in the classical tradition will be studied. Students are allowed to repeat Applied Music 130 up to eight times for credit toward graduation. An applied music fee of \$98.00 is charged each semester.

131, 132, 231, 232, 331, 332, 431, 432 Applied Music. Piano, Organ, Woodwinds, Brass, Voice, Composition.

Taught both semesters and summers.

Students receive one hour lesson per week and two credits per semester. Auditions are required for new students. Compositions studied are determined by the instructor according to the level and ability of the student, subject to standards as established by the

Department. Minimal levels of technical proficiency for each number are available from the Director of Music. A half-hour recital may be required of students as the completion of Applied Music 232. A one-hour recital is required of all students as the completion of Applied Music 432. None of the applied music numbers here can be repeated for credit counting toward graduation. An applied music fee of \$196.00 is charged each semester.

Theatre Arts Concentration

The theatre program is designed to prepare the student for graduate studies, teaching on the secondary level, and for professional careers. The program places emphasis on carefully prepared productions and innovative approaches to staging.

A student concentrating in Theatre Arts must take Theatre Arts 210, 211, Introduction to the Theatre, Theatre Arts 212, Introduction to Technical Theatre, Theatre Arts 213, Beginning Acting, Theatre Arts 318, Scenography, and Theatre Arts 323, Directing. In addition the student must take 12 hours in Theatre Arts above the 100-level, plus six hours in Art and six hours in Music.

Theatre Arts Minor:

A minor in theatre arts consists of twenty-one hours, including 210, 211, 212, and 213.

Sample Program for Theatre Arts Concentration

Course	Hours
Freshman Year	
English 101-102	6
Mathematics or Philosophy	4-6
Physical Education	4
Theatre 210, 211, 212, 213	12
Electives	3-6
	29-31
Sophomore Year	
Natural Science	8-10
Foreign Language	6-8
Social Science	6
Theatre	9
Electives	3-6
	31-39

Junior Year	
Social Science	6
Fine Arts	6
Theatre	9
Electives	12
	33

Senior Year	
Music	6
Theatre	6
Electives	25
	37

210, 211. Introduction to the Theatre [3-3-0]

210 taught fall semester, 211 taught spring semester.

A survey of the history of the theatre in conjunction with a study of major plays, ranging from antiquity to the present. The study of plays includes analysis from a dramatic viewpoint and analysis of the historical, social and philosophic forces that shaped the plays.

212. Introduction To Technical Production [3-1-5]

Taught spring semester.

The course includes scenery construction and painting, basic lighting design and execution as well as stage properties and special effects. In addition, the course includes individual assignments in construction of properties, operation of sound, lights and special effects, assistance in make-up and costume in connection with departmental productions. Five laboratory hours per week (to be arranged with instructor) are required during the semester.

213. Beginning Acting [3-2-2]

Taught both semesters.

Study of basic principles in acting.

214. Fundamentals of Voice and Diction [3-3-0]

Taught fall semester. (Same as Speech 214). Study of basic principles underlying the effective use of the voice and exploration of practical methods leading to acceptable standards in diction.

313. Intermediate Acting [3-2-2]

Taught both semesters.
Characterization and improvisation.

318, 319. Scenography [3-3-0]

318 taught fall semester, 319 taught spring semester.

A theoretical and practical study of unified production concepts. Emphasis is placed on scenery and lighting design, sound, properties, and special effects. Assignments may relate to student or departmental productions.

322. Music Theatre [3-3-0]

Prerequisite: Consent of instructor. Taught summer 1980-81.

Study and practice of performance techniques in opera, musical comedy and revue. Emphasis is placed on the special problems of staging musical performance, book execution and effective presentation of musical numbers.

323. Directing [3-2-2]

Prerequisite: 210, 211 or consent of instructor. Taught fall semester.

Study of basic principles in directing and their practical application in scenes and one-act plays.

324. Directing [3-2-2]

Prerequisite: 210, 211 or consent of instructor. Taught fall semester.

Application of advanced directing techniques in connection with studio productions.

326. Creative Dramatics [3-3-0]

Taught summer 1980-81. Same as Education 326.

Examination of special methods of constructing theatrical events for children. Emphasis is placed on development of the imagination and communication abilities of the child, both in the theatre and in the classroom.

395. Special Topics [Credits vary]

Prerequisite: Consent of the instructor.

Studies to be determined according to special needs and interests.

413. Advanced Acting [3-2-2]

Prerequisite: Six hours of acting or consent of instructor. Both semesters. Study and practice of advanced acting techniques. Emphasis is placed on ensemble performance.

414, 415. Theatre Practice: Styles of Acting, Directing and Design [3-3-0] [3-3-0]

Prerequisite: Consent of instructor.

Taught spring 1980-81.

In-depth study of the major styles of the Western theatre. Each student approaches the class work in terms of his or her major interest (styles of acting, directing, design). If suitable, projects may be executed in connection with actual productions.

458. Playwriting [3-3-0]

Prerequisite: Consent of instructor. Offered on a tutorial basis.

Study of traditional and contemporary modes of dramaturgy and their translation into one-act or full-length plays.

495. Special Topics [Credits vary]

Prerequisite: Consent of the instructor.

Studies to be determined according to special needs and interests.

499. Individual Projects [Credits vary]

Prerequisite: Consent of instructor.

Individual construction, performance or research projects under the guidance of a faculty member.

Speech Communication

Communication behavior is learned from families, friends, schools, the media. But our culture provides negative as well as positive models.

The college speech communication courses are important because they offer an opportunity to examine alternatives and to begin the task of eliminating negative patterns and replacing them with more satisfying behaviors.

The Department offers three speech communication courses regularly and special topics courses as determined by the interest of students and by the expertise of faculty members.

The following planned schedule of courses covers a two-year period, Academic Years 1979-80 and 1980-81.

201. Public Speaking [3-3-0]

Taught both semesters and summer.

Effective speech preparation and delivery with emphasis on the extemporaneous mode of natural and direct communication. Focus on verbal and nonverbal aspects of public address. Special attention given to audience analysis.

203. Oral Interpretation of Literature [3-3-0]

Taught fall semester.

Increased appreciation of literature and responsiveness to its intellectual and emotional content through training and practice in communicating it to others. Voice and speech improvement through practical exercises and drill. Attention given to Readers Theatre and to children's literature.

214. Fundamentals of Voice and Diction [3-3-0]

Taught fall semester. (Same as Theatre 214)
Study of basic principles underlying the effective use of the voice and exploration of practical methods leading to acceptable standards of diction.

Sample Special Topics Courses:

395. Nonverbal Communication [3-3-0]

Prerequisite: Consent of instructor.

A study of body language, facial expression, sound, symbolic interaction and cross-cultural similarities and differences in nonverbal communication.

395. Interpersonal Communication [3-3-0]

Prerequisite: Consent of instructor.

A study of face-to-face, two-way communication. Areas of consideration include attitude influence, primary and secondary breakdowns in communication, problem solving, therapeutic communication, and enhancing relationships.

395. Persuasion [3-3-0]

Prerequisite: Consent of instructor.

Course dealing with the tactics and ethics of persuasion. Designed for the persuader and the recipient of persuasive communication. Includes selected theories of persuasion and attitude modification as applied to interpersonal relations, advertising, politics, business, and science.

395. Organizational Communication [3-3-0]

Prerequisite: Consent of instructor.

Course designed to provide a theoretical framework that will guide the student in the analysis of specific organizational communication processes. Aim is to discover ways of avoiding communication problems without ever having to experience them and to devise ways of dealing with particularly difficult situations before such situations arise.

Cinema

336. The Cinema Since 1945 [4-3-2]

Taught summer only.

A study of the cinema as an art form and of its development since World War II. Films studied will vary from semester to semester and will be selected from the works of Welles, Hitchcock and Kubrick from America; Losey and Schlesinger from England; Ray and Kurosawa from Asia; Antonioni, Bergman, Fellini, Godard, Resnais and Truffaut from Europe.



History

Professors: Bostick (Chairman), Morris, Saunders
Associate Professors: Mazzarella, Morgan
Assistant Professor: Hall

The Department of History offers the Bachelor of Arts degree in history, a minor program, and general and specific history courses for all students interested in historical study for personal enrichment or for furtherance of their vocational needs. The study of history is recognized as an excellent background for work in teaching, public administration, business, journalism, law, and the military services. Students are taught historical analysis, factual and textual criticism, and the complexity of cultural, economic, and political forces present in human decision-making through analysis of varied historical eras and movements. In addition to detailed study in European and American History, courses in Latin American, Asian, and contemporary history are offered. The Department has also developed sample programs to prepare students for law school, graduate study in international studies, and for careers in secondary education and business administration.

For a Bachelor of Arts degree in History, a student must complete History 101, 102, 201, 202, and a minimum of twenty-four hours in history above the 200 level, including History 490 (Senior Seminar). A maximum of forty-two hours in history above the 200 level may be applied toward the degree. A maximum of nine hours in History 395 (Topics), no more than six of which may be courses taught in conjunction with Colonial Williamsburg, may be offered toward completion of major requirements. History majors are encouraged to diversify their programs by taking advanced courses in American, European, and non-Western History.

For a minor in history, a minimum of twenty-one hours, consisting of History 101, 102, 201, 202, and three courses of the student's choice at the 300 or 400 level, is required.

Students may complete the 100 and 200 level requirements through coursework or,

alternatively, through (1) the CLEP testing program, details of which can be obtained from the Counseling Center or (2) the successful completion of Advanced Placement History in high school and the earning of an acceptable score on the Advanced Placement Examination of the College Entrance Examination Board.

History majors desiring to teach history must take the courses required by the State of Virginia as outlined in the sample program for teacher preparation, including three hours in mathematics; three hours in economics; and Education 401s (six hours), Education 403h (three hours), and Education 414 (three hours) offered as a twelve-hour block in the spring semester each year.

Sample Program for History Majors

Course	Hours
Freshman Year	
English 101, 102, or 103, 104	6
Lab. Science	8
History 101-102	6
Foreign Language	8
Physical Education	2
	30
Sophomore Year	
History 201, 202	6
Humanities Electives	6
Social Science Requirements	6
Foreign Language	6
Math or Philosophy	6
	30
Junior Year	
History Electives	12
Electives	21
	33
Senior Year	
History Electives	9
History 490 (Senior Seminar)	3
Electives	18
	30

Sample Program for History Majors Teacher Education Program History (Minor in Secondary Education)

Course	Hours	Course	Hours
Freshman Year			
English 101-102 or 103-104	6	English 101, 102 or 103, 104	6
Lab. Science	8	Lab. Science	8
History 101, 102	6	History 101, 102	6
Foreign Language	8	Political Science 102	3
Physical Education	2	Sociology 200	3
(Activities courses)	4	Physical Education	4
	32		30

Course	Hours	Course	Hours
Sophomore Year			
History, 201, 202	6	History 201, 202	6
Humanities	6	Humanities	6
Mathematics	6	Mathematics	6
Economics 201	3	Psychology 201	3
Foreign Language	6	Political Science 221	3
P.E. 321	3	Economics 201-202	6
Psychology 201	3	Physical Education 321	3
	33		33

Course	Hours	Course	Hours
Junior Year			
History electives	12 ¹	History electives	12
Speech 201	3	Speech 201	3
Psychology 307 or 309, 312	6	Psychology 307 or 309 and 312	6
Education 300	3	Education 300	3
Electives	6	Geography 201 or 252 plus geography elective	6
	30	Political Science 201 or 321	3
			33

Course	Hours	Course	Hours
Senior Year			
History electives	12 ¹	History electives	12
Education 303, 404	6	Education 303, 404	6
Education 401S, 403H, 414	12 ²	Education 401S, 403H, 414	12
	30	Political Science 351 or 358 or 359	3
			33

¹A history major must present a minimum of 24 hours and a maximum of 42 hours above the 200 level; these must include History 490 (Senior Seminar). The History Department strongly recommends a balance between European and American history courses.

²Twelve-credit block to be taken in spring semester.

Note: The Department of History and Education strongly recommend that the student, in his own best interests, certify in both History and Social Science.

Sample Program for History Majors Teacher Education Program History and Social Sciences (Minor in Secondary Education)

¹A history major must present a minimum of 24 hours and a maximum of 42 hours above the 200 level; these must include History 490 (Senior Seminar). The History Department strongly recommends a balance between European and American history courses.

²Twelve-credit block to be taken in spring semester.

Sample Program for History Major Pre-Law Program (Minor in Political Science)

Course	Hours
Freshman Year	
English 101, 102 or 103, 104	6

Lab. Science	8
History 101, 102	6
Foreign Language	8
Physical Education	4
	32

Sophomore Year

History 201, 202	6
Humanities Requirement ¹	6
Social Science Requirement ¹	6
Foreign Language	6
Math or Philosophy ¹	6
	30

Junior Year

History Electives ⁴	12
Pol. Sci. Electives ⁵	9
Electives ⁶	12
	33

Senior Year

History Electives ⁴	9
History 490 (Senior Seminar)	3
Political Sci. Electives ⁵	9
Electives ⁶	9
	30

¹English 207, 208 (Literature and Ideas) recommended.

²Economics 201, 202 (Principles of Economics) recommended.

³Philosophy 101 (Elementary Logic) and 102 (Introduction to Philosophic Inquiry) recommended.

⁴A history major must present a minimum of 24 semester hours and a maximum of 42 hours above the 200-level; these must include History 490 (Senior Seminar). The following courses are recommended to pre-law history majors.

Hist. 321. The Revolutionary Era, 1763-1800 (3)
Hist. 340, 341. Economic History of the United States (3,3)
Hist. 343. Contemporary World (3)
Hist. 395. Topics: American Constitutional History (3)
Hist. 395. Topics: English Constitutional History (3)

Hist. 412, 413. Tudor and Stuart England (3,3)
Hist. 421, 422. Intellectual History of Europe (3,3)

⁵The following courses leading to a minor in Political Science are recommended.

Pol. Sci. 101 and/or 102. Understanding Public Affairs I and/or II (3)
Pol. Sci. 221. State and Local Government (3)
Pol. Sci. 346. Politics and Criminal Justice Admin. (3)
Pol. Sci. 363. Law and Public Policy (3)
Pol. Sci. 365. Civil Liberties Policy (3)

⁶The following courses are recommended.

Speech 201. Public Speaking (3)
Psych. 201. Principles of Psychology (3)
Soc. 200. Introduction to Sociology (3)
Accounting 201, 202. Principles of Accounting (3,3)
Accounting 301, 302. Intermediate Accounting (3,3)
Phil. 301. Intermediate Logic (3)
Econ. 302. Public Finance (3)
Engl. 353. Business and Technical Writing (3)

Sample Program for History Majors With Preparation in Business Administration

Course	Hours
Freshman Year	
English 101, 102 or 103, 104	6
Lab. Science	8
History 101, 102	6
Foreign Language	8
Physical Education	4
	32

Sophomore Year

History 201, 202	6
Humanities Requirement	6

Social Science Requirement ²	6
Foreign Language	6
Math or Philosophy	6
	30

Junior Year

History Electives	12
Bus. Admin. Electives ¹	9
Electives	12
	33

Senior Year

History Electives ²	9
History 490 (Senior Seminar)	3
Bus. Admin. Electives ³	9
Electives	9
	30

¹Econ. 201, 202 (Principles of Economics) recommended.

²A history major must present a minimum of 24 hours and a maximum of 42 hours above the 200-level; these must include History 490, Senior Seminar. The Department strongly recommends a balance between European and American history courses.

³The following courses are recommended although a student may select other courses in consultation with his advisor according to his interests and needs.

Hist. 340, 341 or Econ. 340, 341.
Economic History of the United States (3,3)
Bus. 311. Principles of Marketing (3)
Bus. 324. Principles of Management (3)
Bus. 412. Personnel Management (3)
Bus. 461. Public Policies (3)
Econ. 301. Money and Banking (3)
Comp. Sci. 220. Computer Structure and Programming (3)
or
Math 125. Elementary Statistics (3)

European History

101. History of Western Civilization to 1715 [3-3-0]

Taught in fall semester.

A survey of the history of culture of Western man. Beginning with the traditions of the ancient world, the course traces the major developments of Western Civilization to 1715.

102. History of Western Civilization, 1715 to the Present [3-3-0]

Taught in spring semester.

A survey of the major political, social, cultural, and intellectual developments of Western civilization from 1715 to the present.

301, 302. Greek & Roman Civilization [3-3-0] [3-3-0]

Prerequisite: History 101, 102, or junior standing, or consent of instructor. Taught fall and spring semesters, 1979-80.

First semester begins with the origin and nature of the great civilizations of the Near East and closes with the empire of Alexander the Great. Second semester begins with the early history of Italy and ends with the fall of the Roman Empire.

307, 308. Medieval History [3-3-0] [3-3-0]

Prerequisite: History 101, 102, or junior standing, or consent of instructor. Taught fall and spring semesters, 1979-80.

First semester deals with the decline of Rome, the Germanic invasions, Justinian, Islam, Charlemagne and the stabilizing of Europe. Second semester focuses on Medieval culture, the Feudal Kingdoms, clash of Empires and Papacy, the Hundred Years War, and the waning of the Middle Ages.

313. The Renaissance [3-3-0]

Prerequisite: History 101, 102, or junior standing, or consent of instructor. Taught fall semester, 1980.

A study of the history and civilization of the Renaissance in Italy and northern Europe. The course will consider the many facets of Renaissance life and activity.

314. The Reformation [3-3-0]

Prerequisite: History 101, 102, or junior standing, or consent of instructor. Taught spring semester, 1981.

A study of the background, history, and ideas of the Protestant Reformation and the Catholic Reformation through the early seventeenth century.

316. Early Modern Europe, 1600-1789 [3-3-0]
Prerequisite: History 101, 102, or junior standing, or consent of instructor. Taught fall semester, 1980.

A study of the development of absolutism and constitutionalism, the scientific revolution and Enlightenment, and the impact of political and scientific developments on social and cultural patterns in 17th and 18th century European society to the French Revolution.

317. The Age of Revolution, 1789-1850 [3-3-0]
Prerequisite: History 101, 102, or junior standing, or consent of instructor. Taught spring semester, 1981.

The French Revolution and Napoleon, Metternich and the Era of Reaction, the Industrial Revolution, Liberalism, Nationalism and the Revolutions of 1848.

318. The Rise and Clash of the National States, 1850-1919 [3-3-0]
Prerequisite: History 101, 102, or junior standing, or consent of instructor. Taught fall semester, 1980.

The unification of Italy and Germany, Darwin and Evolution, Marx and Socialism, Imperialism, the Descent into Violence, World War I, the Russian Revolution, and the Versailles Settlement.

319. Europe in the Fascist Era, 1919-1945 [3-3-0]
Prerequisite: History 101, 102, or junior standing, or consent of instructor. Taught spring semester, 1981.

Europe between the wars, establishment of communist Russia, the rise of fascism and nazism, the collapse of the Versailles Settlement, the Second World War.

411. Modern Russian History [3-3-0]
Prerequisite: History 101, 102, or junior standing, or consent of instructor. Taught spring semester, 1981.

A survey of Russian history beginning with the emergence of modern Russia during the

reign of Peter the Great and continuing to the present. Emphasis is placed on the rise of nineteenth century radicalism, the Revolutions of 1905 and 1917, the nature of Russian Marxism, and Russia under the Soviet system.

413, 414. England under the Tudors and Stuarts [3-3-0] [3-3-0]
Prerequisite: History 101, 102, or junior standing, or consent of instructor. Taught fall and spring semesters, 1979-80.

First semester begins with the establishment of the modern English state under the Yorkists and early Tudors and concludes with the Elizabethan Age. Second semester concentrates on the Stuart period through the Glorious Revolution.

415. History of Modern Britain since the 18th Century [3-3-0]
Prerequisite: History 101, 102, or junior standing, or consent of instructor. Taught fall semester, 1980.

After a brief consideration of the eighteenth century background, the course focuses on British history and civilization during the nineteenth and twentieth centuries.

American History

201. American History to 1865 [3-3-0]
Taught both semesters.
A survey of the historical development of the United States from early colonial times through the Civil War including social, cultural, economic, and political movements through these years of earlier growth.

202. American History since 1865 [3-3-0]
A survey of the historical development of the United States from the Civil War through the present time. The course emphasizes social, cultural, economic, and political developments during the later years of America's growth.

201A, 202A. American History [3-3-0]
Taught fall and spring.
An examination of the history of the United States emphasizing social and cultural developments. The growth of American society and culture will be the focal points for the

TWO COURSES.

320. Colonial North America [3-3-0]
Prerequisite: History 101, or History 201, or junior standing, or consent of instructor. Taught fall semester 1979.
An examination and analysis of the English, French, Spanish, and Dutch colonial experiences in the sixteenth, seventeenth, and eighteenth centuries to 1760.

321. The Founding of the United States, 1760-1840 [3-3-0]
Prerequisite: History 201, or junior standing, or consent of instructor. Taught spring semester, 1980.
An examination of the birth and early growth of the American Republic, concluding with the advent of democracy in the Age of Jackson.

323. Civil War and Reconstruction [3-3-0]
Prerequisite: History 201, 202, or junior standing, or consent of instructor. Taught fall semester, 1980.
An intensive study of slavery and expansion, social and intellectual developments of the era, the Civil War and Reconstruction.

324. Twentieth Century America [3-3-0]
Prerequisite: History 201, 202, or junior standing, or consent of instructor. Taught spring semester, 1981.
A study of the major political, social, intellectual and economic developments in the United States and an analysis of American foreign policy in the twentieth century.

341, 342. American Economic Institutions [3-3-0] [3-3-0]
Prerequisite: History 201, 202, or junior standing, or consent of instructor. Taught fall and spring semesters, 1979-80.
The study of America's economic growth and development from colonial times to the present. Includes the development of agriculture, manufacturing, trade and commerce, improved methods of transportation and communication, employer and employee organizations, governmental impact on the economy, and economic interdependence. Sec-

ond semester begins with the late 19th century.

431. Modern American Diplomatic History [3-3-0]
Prerequisite: History 201, 202, or junior standing, or consent of instructor. Taught spring semester, 1981.
An examination of American relations with the rest of the world.

434. Urban History of the United States [3-3-0]
Prerequisite: History 201, 202, or junior standing, or consent of instructor. Taught fall semester, 1979.
A study of the political, social, and intellectual impact of the city upon American history from the seventeenth to the twentieth century.

441, 442. American Maritime and Naval History [3-3-0] [3-3-0]
Prerequisite: History 201, 202, or junior standing, or consent of instructor. Taught fall and spring semesters, 1980-81.
A survey of the maritime development of the United States and its relationship to the Western world from the founding of the colonies to the present time. Emphasis is on the growth of American merchant shipping and naval power and their relationship to American political, military, economic, and cultural history. First semester concludes with the Civil War. Second semester covers the modern period from the Civil War to the present.

Asian History

461. History of Modern Asia [3-3-0]
Prerequisite: History 101, 102, or junior standing, or consent of instructor. Taught fall semester, 1979.
A history of Asia in the modern world, beginning with the opening of Asia to Western influences in the 19th century and concluding with the modernization of Asia and the development of Asian Communism.

Latin American History

331. History of Modern Latin America [3-3-0]
Prerequisites: History 201, 202, or junior standing, or consent of instructor. Taught in fall semester.

After a brief consideration of the early development of Latin America, the course examines the independence movements and Republican institutions to the present.

Contemporary History

343. The Contemporary World [3-3-0]
Prerequisite: History 101, 102, or 201, 202, or junior standing, or consent of instructor. Taught spring semester, 1980.

An historical analysis of world developments since World War II, with particular emphasis on the development of ideological and regional tensions. The goal of the course is to place the major concerns of the present in their proper historical perspective.

Topics Courses

295. Topics [3-3-0]

This course will offer topics at the introductory level of special interest in various areas and periods of history.

395. Topics [3-3-0]

Prerequisite: History 101, 102, or 201, 202, or junior standing, or consent of instructor.

A thorough analysis of a particular phase, movement, or subject area of history with emphasis on its impact upon the larger historical scene. Topics and instructors vary each semester according to departmental assignment. A maximum of nine hours in History 395 may be offered toward completion of major requirements.

Seminar

490. Senior Seminar [3-3-0]

Prerequisite: Six credit hours in history above the 200 level. Required of all history majors. Taught both semesters.

A seminar dealing with selected problems in history and an examination of historiography, methodology, and philosophy of history. The focus, form, and content of each seminar will

be determined by the instructor. The nature of the seminar will be announced well in advance after consideration of student interest and staff availability.

Humanities

Interdisciplinary courses involving two or more departments from among the following: Classical Studies, English, Fine and Performing Arts, History, Modern Foreign Languages and Literatures, and Philosophy, are taught under the Humanities title.

The Humanities Department offers neither a major nor a minor program. Students seeking a list of those courses which satisfy the Humanities distribution requirement are referred to the section describing requirements for the degree in question.



Management and Marketing

Professor: A. King

Associate Professors: Bankit, Boyd, Coker (Chairperson), Van Pelt

Assistant Professors: Doleac, *Ferry, Tsao

The Department of Management and Marketing, a member of the American Assembly of Collegiate Schools of Business, offers the Bachelor of Science Degree with concentrations in three specified areas: management, marketing, and real estate.

The concentration in management provides an overview of management theory and practice as it relates to all of the specific business functions, e.g., production, finance, accounting, marketing, and purchasing. The curriculum assumes a degree of universality and transferability with respect to management skills. The management concentration offers an exceptional variety of courses to prepare the student for all types of managerial positions and perspectives. For instance, a student interested in a more general approach to this field might select as his or her management electives such courses as *Personnel Management*, *Human Relations in Organizations*, *Industrial Psychology*, *Economics of Labor and Collective Bargaining* and a Topics course such as *Case Studies and Decision-Making Simulation in Organizations*. On the other hand, a student who desires more mathematical or quantitative managerial training might elect as management electives a package of such courses as *Managerial Economics*, *Business Conditions and Forecasting*, *Managerial Accounting*, and *Production Management*.

The marketing concentration involves the planning of business activity from the completion of production to the final consumer. This includes such interrelated activities as product planning, advertising strategy, distribution and logistics management, pricing policy, and marketing promotion. Salesmanship and merchandising techniques, store operations and buying procedures are also included.

*On Leave for Academic Year.

The Department of Management and Marketing is administratively directing a developing concentration in real estate. This concentration will prepare students for careers in real estate. A student who elects this concentration will take all of the courses required by the State of Virginia to become eligible to sit for the Virginia Real Estate Brokers' Examination.

For general distribution and basic core requirements, refer to the catalog section on Requirements for Degrees (B.S.R.A.).

Management

(Eighteen Credits Required)

The following courses are required: *Business 412, Personnel Management, Accounting 401, Taxation, Business 400, Organization Theory*. Select nine additional hours from any of the following courses: *Business 325, Small Business Administration; Business 331, Statistical Methods in Business and Economics; Accounting 410, Managerial Accounting; Business 414, Case Studies in Decision Making; Economics 420, Business Conditions and Forecasting; Business 431, Production Management; Business 450, Marketing Management; Economics 451, Economics of Labor and Collective Bargaining; Economics 490, Managerial Economics; Business 495, Topics in Business; Psychology 313*, Human Relations in Organization; and Psychology 303*, Industrial Psychology.*

*From Psychology 303 and Psychology 313, only one course may be elected. Either Psychology 303 or Psychology 313 may count toward the forty-five hours required in business if this concentration is elected.

Suggested Course Outline for Management Concentration

Course	Hours
Junior Year	
Business 311, 323, 331, 361	12
Economics (300-400)	
Level Core Requirement)	3
Management Concentration	6
Non-Business Electives	12
	33

Senior Year	
Business 408, 418	6
Non-Business Electives	16*
Management Concentration	12
	34

*Upon waiver by the Registrar, the student may take up to an additional eighteen hours in business by declaring the introductory business courses as general electives. In electing the management concentration, the student must declare one (three-hour) introductory course as an elective.

Marketing

(Eighteen credits required)

The following courses are required, *Business 300, Salesmanship; Business 450, Marketing Management; Business 452, Marketing Research; and Business 454, Consumer Behavior*. Select six additional hours from any of the following courses: *Business 315, Principles of Transportation; Business 331, Statistical Methods in Business and Economics; Business 336, Retail Store Organization and Operation; Business 338, Buying Procedures and Problems; Business 350, Sales Management; Business 395, Topics in Retailing; Business 415, Traffic Management; Business 416, Transportation Regulation and Law; Business 453, Marketing Promotion; Business 457, Channels of Distribution; Business 458, International Marketing; and Business 495, Topics in Business*.

Suggested Course Outline for Marketing Concentration

Course	Hours
Junior Year	
Business 311, 323, 331, 361 Economics (300-400)	12
Level Core Requirement)	3
Marketing Concentration	9
Non-Business Electives	9
	33
Senior Year	
Business 408, 418	6
Non-Business Electives	18*
Marketing Concentration	9
	33

*Upon waiver by the Registrar, the student may take up to an additional eighteen hours in business by declaring introductory business courses as general electives. In electing the marketing concentration, the student must declare one three-hour introductory course as an elective.

Real Estate

(Fifteen credits required)

The required course is *Business 322, Principles of Real Estate*. Twelve credits are required from the following courses: *Business 470, Real Estate Law; Business 471, Real Estate Appraisal; Business 472, Real Estate Brokerage; Business 473, Real Estate Finance; and Business 474, Real Estate Investment*.

Suggested Course Outline for Real Estate Concentration

Course	Hours
Junior Year	
Business 311, 323, 331, 361 Economics (300-400)	12
Level Core Requirement)	3
Real Estate Concentration	6
Business 322	3
Non-Business Electives	9
	33
Senior Year	
Business 408, 418	6
Real Estate Concentration	9
Non-Business Electives	16*
	31

*Upon waiver by the Registrar, the student may take up to an additional eighteen hours in business by declaring introductory business courses as general electives.

Business 108, Mathematics of Business Finance [3-3-0]

Prerequisite: Mathematics 110.

Emphasizes such practical business problems as simple interest and discounts, averaging methods, inventory evaluation, compound interest, annuities, and perpetuities.

Business 300, Salesmanship [3-3-0]

Taught both semesters.

A study of effective selling techniques emphasizing planning a sale, qualifying the customer, the importance of product knowledge, handling objections, multiple closings, effective use of buying signals, suggestive selling and prospecting. The student is required to give a number of sales demonstrations in class in order to show ability to conduct a sales interview.

Business 311, Marketing Theory and Analysis [3-3-0]

Taught both semesters.

Study of the activities which direct the flow of goods and services from producer to consumers in modern economic systems. Emphasis is placed on developing the student's ability to analyze and evaluate marketing problems and policies.

Business 315, Principles of Transportation [3-3-0]

Prerequisite: Business 311.

This course is designed to give the student an overview of the transportation field to include: transportation development, freight rate differential, transportation and the industrial pattern, valuation and rate making.

Business 322, Principles of Real Estate [3-3-0]

Taught both semesters.

A survey of the role and importance of real estate in the economy, legalities, financing, investment, and appraisal. Involves problems of obtaining, owning, and transferring real estate.

Business 324, Administrative Theory and Practice [3-3-0]

Taught both semesters.

The fundamental principles of administration underlying the operation of any type of organization. Emphasis will be placed on such basic functions of management as planning, organizing, staffing, leading, and control. These functions will be viewed from the human relations and quantitative aspects.

Business 325, Small Business Management [3-3-0]

Prerequisite: Junior or Senior standing or consent of instructor.

This course is designed to give the student or student-businessman specific information concerning all aspects of small business. Major areas of study will be marketing, financing, recordkeeping for small businesses.

Business 331, Statistical Methods in Business and Economics [3-3-0]

Prerequisite: Mathematics 110, 125.

Emphasis is placed on applications of statistical techniques to practical business and economic problems. Topics include classical hypothesis testing, non-parametric tests, one-way analysis of variance, time series analysis, and linear regression and correlation analysis.

Business 336, Retail Store Organization and Operation [3-3-0]

The importance, problems and requirements of retail stores are explored; the financing, organizing, location selection, building, layout, pricing, promotion, credit, control, and recordkeeping. Students work in all stages in the planning and operation of a retail store.

Business 338, Buying Procedures and Problems [3-3-0]

A study of problems involving initial markup, maintained markups, retail methods of inventory, turnover, profit, stock to sales ratios and their application to the buyers job. Dollar and unit planning, unit control, model stocks, merchandise selection, pricing, and market procedures are emphasized and practiced with projects.

Business 350, Sales Management [3-3-0]

Prerequisite: Business 311 or consent of instructor.

This course examines the management of a company's personal selling component(s). The sales manager will be studied as a profit manager of a market area and as an administrator involved in sales planning, forecasting, budgeting, staffing (selecting, training, compensation, supervising and stimulating), quota setting, sales force operations, sales analysis and performance evaluation. Sales executive's ethical and social responsibilities will be reviewed.

Business 361. Legal Environment of Business [3-3-0]

Prerequisite: Accounting 201-202, Economics 201-202, Junior or Senior standing. Taught both semesters.

A study of legal, economic and political aspects of Government regulations of business. Emphasis is placed on the powers of the Federal and State Governments under their Constitutions, the Anti-Trust laws; regulatory agencies and their regulations; and administrative rule-making by Governmental agencies and how they affect decision-making and the operations of businesses.

Business 395. Topics in Retailing [3-3-0]

Presentation and discussion of recent trends in current problems of the retail industry. The seminar topics will reflect student interest.

Business 400. Organization Theory [3-3-0]

Prerequisite: Business 324

A detailed investigation into contemporary organization theory and problems. The determinants of organization design, the structural and process components of an organization, determinants of organization performance, and interrelationships between organization context, structure, process, and ends. Alternative theories and models of organizations will be compared and contrasted.

Business 408. Quantitative Analysis for Business and Economics [3-3-0]

Prerequisite: Mathematics 110, 125; Accounting 201-202; Computer Science 220; Business 311, 324. Taught both semesters.

An analysis of the quantitative operations, research, and management science approach to decision theory and the use of information systems by business management. Business simulation models and computer information systems will be considered.

Business 412. Personnel Management [3-3-0]

Prerequisite: Business 324. Taught both semesters.

A study of the principles and problems involved in personnel administration. Topics include job analysis, recruiting, and selection and training of personnel. The course will

also include a discussion of collective bargaining and an introduction to wage and salary administration.

Business 414. Case Studies and Decision-Making Simulations in Organizations [3-3-0]

Prerequisite: Junior or Senior standing.

Students will analyze cases describing complex problems in human and group interactions in organizations. Students will interact for decision-making in two computer simulated games and sim-soc (a simulated society). Students will receive reactions on the effects of their decisions. The only grades given will be pass/fail.

Business 415. Traffic Management (Transportation). Practices and Procedures [3-3-0]

Prerequisites: Business 311, 315, 324; Math 110; Computer Science 220.

A study of the management function of a traffic department in the movement and routing of raw material or finished goods in intrastate or interstate commerce; application of freight rates, rules, and regulations of tariffs to specific commodity groups; preparation of transportation documents; auditing of freight charges.

Business 416. Transportation Regulation and Law [3-3-0]

Prerequisite: Business 415.

A study of transportation regulations and law including the Interstate Commerce Act; nature of interstate commerce; franchises, combinations of carriers, finance rates and service, procedures, loss and damage and related statutes.

Business 418. Business Policy and Strategy [3-3-0]

Prerequisites: Accounting 201-202, Business 311, 323, and 324. Senior standing. Taught both semesters.

Case analysis of the principles and techniques of formulating management policies. Utilizes analytical techniques in solving problems in management, finance, marketing, production, personnel, and accounting.

Business 431. Production Management [3-3-0]

Prerequisites: Math 110, Accounting 201-202, Business 324.

An analysis of production, with concentration on the method, design, and operation of production systems.

Business 450. Marketing Management [3-3-0]

Prerequisite: Business 311. Taught both semesters.

An intensive analysis of major marketing decisions facing the firm, such as level mix, allocation, and strategy of marketing efforts. Specific decision areas investigated include market determination, buyer behavior, product policy, channel management, physical distribution, promoting and pricing. Competitive, political, legal, and social factors that may affect such areas are discussed. Cases, models, and problems are used heavily.

Business 452. Market Research [3-3-0]

Prerequisite: Business or consent of instructor. Taught spring semester.

The application of analytical tools in the investigation of marketing problems. Emphasis on the development of sound policies in the systematic selection, gathering, and interpretation of marketing information.

Business 453. Marketing Promotion [3-3-0]

Prerequisite: Business 311 or consent of instructor. Taught fall semester.

Course examines rationale and strategies behind the managing, planning, creating, using, researching and evaluating of radio, television, print, outdoor, direct mail, specialty and P.O.P. advertising. Determining objectives, making budget decisions, preparing advertisements, selecting media, and monitoring environmental constraints on advertising is stressed.

Business 454. Consumer Behavior [3-3-0]

Prerequisite: Business 311 or consent of instructor. Taught spring semester.

A study of the motivation and behavior of the consumer in the marketplace. The course draws on such disciplines in the behavioral sciences as psychology, sociology, and anthro-

pology and provides students with insight into the dynamics of the consumer's way of thinking.

Business 457. Channels of Distribution [3-3-0]

Prerequisite: Business 311 or consent of instructor.

The course deals with the different types of channel organizations and structures. Economic and behavioral dimensions of channels are also discussed. Effectiveness of different channel combinations is analyzed as it applies to product areas, geographical environments, and economic environments.

Business 458. International Marketing [3-3-0]

Prerequisite: Business 311 or consent of instructor.

Marketing problems and practices faced by national and multi-national corporations are analyzed. Specific types of marketing policies and strategies are examined as they relate to different product areas, and different international geographical areas.

Business 470. Real Estate Law

Prerequisite: Business 322 or consent of instructor.

A detailed and comprehensive survey of state and local laws which pertain to real estate: the laws of contracts, deeds, mortgages, leases, liens, and property taxes.

Business 471. Real Estate Appraisal [3-3-0]

Prerequisite: Business 322 or consent of instructor.

A detailed and comprehensive survey of specific principles and techniques of appraising the value of residential and commercial property. Intrinsic structural and engineering values are viewed as well as market considerations.

Business 472. Real Estate Brokerage [3-3-0]

Prerequisite: Business 322 or consent of instructor.

A survey of principles and techniques involved in the ownership or managership of a real estate agency. Involves the issues of

agent and agency, employment contracts, title of contracts, and commissions.

Business 473. Real Estate Finance [3-3-0]

Prerequisite: Business 322 or consent of instructor.

A survey of the principles and techniques of financing residential and commercial property. Involves bank and savings and loan regulations, veterans administration regulations, interest rates, and computation of installment payments.

Business 474. Real Estate Investment [3-3-0]

Prerequisite: Business 322 or consent of instructor.

Course is for the real estate major or person pursuing a career in real estate. Subjects stressed include: the knowledge and use of pertinent information that is necessary for the marketing of income-producing and/or speculative real estate to clients; techniques and tools used in providing professional counsel to real estate investment clients; and, the broker's role as either the seller's agent, the buyer's agent, or as one only providing counseling services.

Business 495. Topics in Business [3-3-0]

Topical seminars or experiment of courses in business in a variety of areas: comparative systems, organizational analysis, case work in human relations in organizations, and financial analysis possibilities.

Business 499. Independent Study or Research.

Junior or Senior status and consent of instructor.

An opportunity for independent study or research with guidance of faculty advisor. From one to three credits.

Mathematics

Associate Professors: Avioli (Chairman),

Bartelt, Collins

Assistant Professors: Hamilton, Peraky, Weber

Instructors: Pao, Pearson

The Mathematics Department offers a variety of courses for those who wish to develop general or specific skills in mathematics, to satisfy the core distribution requirements, to study mathematics for esthetic reasons, or who wish to major or minor in Mathematics. With the cooperation of the Basic Studies Department, the Mathematics Department has established five different levels of courses for entering students. Consequently an entering student is advised to take the placement test in the Counseling Center before deciding which course to take; students are encouraged to consult with the Department when they are unable to take the placement test. The Department also encourages students who have had more advanced mathematics (either in high school or in some other college) to consult with the Department so that a suitable program may be planned.

Requirements for a Major

A major must choose one of the following three tracks.

1. A major choosing the first track must satisfactorily complete *Mathematics 250, 260, 360, and 370*, one 400 level course, and at least nine additional credits in courses at the 300 or 400 level. Moreover, he must follow one of three plans: a) three 300- or 400-level courses in mathematics in addition to the basic 24 credits stated above; b) a teacher education program in secondary teaching of mathematics; or c) three 300- or 400-level courses in another discipline chosen by the student in consultation with his or her advisor. Acceptable disciplines are Physics, Computer Science, Chemistry, or Biology. All other disciplines must be approved in advance by the Department.
2. Mathematics with a concentration in Computer Science.

This program is for mathematics majors who have a strong interest in both mathematics and computer science. The

requirements for the concentration are:

- a. *Mathematics 250, 260, 360, 370, 380, 390, and 470*. In addition, a student must select one of 400 or 480 and one other course on the 300-400 level.
 - b. *Computer Science 310, 330, and 360*. In addition, a student in consultation with the student's advisor, must take 15 more credits in computer science, at least 9 of which are at the 300-400 level.
3. Mathematics with a concentration in Physics.

This program emphasizes practical scientific, mathematical, and engineering research. The requirements are:

- a. *Mathematics 250, 260, 320, 360, and 420*. In addition, the student must choose at least nine credits of 300-400 level mathematics courses. These courses are recommended: 335, 380, 440, and 480.
- b. *Physics 201-202, 301, 302 or 351, & nine additional hours chosen from the following list of courses in consultation with the student's advisor: (Physics 299, 302, 304, 311, 351, 362, 395, Fluid Dynamics (3 credits), 395, Thermodynamics (3 credits), 402, 495, Solid State Physics (3 credits), 495, Continuum Mechanics II. (3 credits), 499, Research Project (at least 3 credits).*

All mathematics majors must satisfy the general requirements for graduation and the distribution requirements for the Bachelor of Arts and Bachelor of Science Degrees. A major desiring a Bachelor of Science Degree must take *Physics 201-202* as a partial fulfillment of the natural science distribution requirement.

A minor concentration in mathematics requires satisfactory completion of *Mathematics 250, 260, and 320*, and at least six additional credits in courses at the 300 or 400 level.

Because of the complexity of planning a long-term program for those who intend to major in mathematics (and especially for those who seek a teacher education program the secondary teaching of mathematics), it is strongly urged that any student with possible

interests in a major or minor concentration in mathematics consult with the Mathematics Department before registering for any courses. This applies to both classified and unclassified students in any year.

The Mathematics Department strongly recommends that any prospective mathematics major take *Physics 201-202* in order to satisfy the Natural Science Division distribution requirement or an elective. Since calculus is a prerequisite for *Physics 201-202*, it may be advisable to take *Physics 201-202* in the sophomore year. The Department also recommends that a prospective major take *Computer Science 220*.

Sample Program for Mathematics Majors

Course	Hours
Freshman Year	
English 101-102	6
Math 130, 140, or 240	6-7
Computer Science 220	2
Distribution	18-19
	34
Sophomore Year	
Physics 201-202	8
Math 240, 250, 260, or 320	6-12
Distribution	10-16
Second Area	0-8
	30
Junior Year	
Math 320 or 335, 360, 370, and others	9-15
Second Area	6-9
Electives	6-15
	30
Senior Year	
Math	6-12
Second Area	6-15
Electives	3-18
	30

110. Algebra [3-3-0]

Prerequisite: One year of high school algebra and appropriate score on placement test. Taught both semesters. This course is intended to serve as a prerequisite for *Math*

130 or 135.

Topics include properties of real numbers, polynomials, rational expressions, exponents, equations and inequalities, functions, logarithms, and systems of equations.

120. Finite Mathematics [3-3-0]

Prerequisite: One year of high school algebra and acceptable score on placement test, or two years of high school algebra, or *Math 110*. Taught both semesters. Suitable for those students already having a knowledge of elementary algebra as described under *Math 110*. Topics include logic sets, trees, combinatorics, permutations, elementary probability, finite sample spaces, Markov chains, matrices and matrix games, linear programming, graphs, or digraphs or other topics in discrete mathematics.

125. Elementary Statistics [3-3-0]

Prerequisite: One year of high school algebra and acceptable score on placement test, or two years of high school algebra, or *Math 110*. Taught both semesters.

A general survey of descriptive and inferential statistics. Descriptive analysis of uni- and bivariate data, probability, standard distributions, sampling, hypothesis testing, estimation, linear regression, and non-parametric testing.

130. Elementary Functions and Analytic Geometry [3-3-0]

Prerequisite: Two and a half years of high school mathematics, acceptable score on placement test, or *Math 110*. Taught both semesters.

Designed for the student planning to take calculus but who has little or no knowledge of analytic geometry, trigonometry, and functions. Real numbers, inequalities, analytic geometry, linear and quadratic functions, polynomials and rational functions, trigonometric identities, and exponential and logarithmic functions.

135. Calculus for Business and Social Sciences. [3-3-0]

Prerequisite: Two and one half years of high

school math or acceptable score on placement test or *Math 110*.

An introduction to the calculus of functions arising in business and the social sciences. Exponential and logarithmic functions, differentiation, and integration. Modeling and applications will be stressed.

140. Calculus and Analytic Geometry [4-4-0]

Prerequisite: Three and a half years of high school mathematics, acceptable score on placement test, or *Math 130*. Taught both semesters.

An introduction to the calculus of elementary functions. Analytic geometry, functions, continuity, derivatives, methods of differentiation, the Mean Value Theorem, curve sketching, applications of the derivative, the definite integral, the Fundamental Theorems of Calculus, indefinite integrals, logarithmic and exponential functions, and applications of the integral.

235. Applied Matrix Techniques. [3-3-0]

Prerequisite: *Math 140* or *Math 135*. Taught spring semester.

Topics in applied linear algebra such as systems of linear equations, Gaussian elimination, matrix algebra, determinants, Cramer's rule, eigenvalues and vectors. Also applications in some of these areas: linear programming, game theory, Markov chains, input/output models, graph theory, and genetics.

240. Intermediate Calculus [3-3-0]

Prerequisite: *Math 140* or consent of the instructor or chairman. Taught both semesters.

Techniques of integration, L'Hospital's Rule, approximations, Taylor's Theorem, sequences and limits, series of numbers and functions, power series, and Taylor series.

250. Multivariable Calculus [3-3-0]

Prerequisite: *Math 240* or consent of the instructor or chairman. Taught both semesters.

An introduction to the calculus of real-valued

functions of more than one variable. The geometry of 3-space, partial and directional derivatives, multiple and iterated integrals, and applications.

260. Linear Algebra [3-3-0]

Prerequisite: *Math 140*.

Systems of linear equations, matrix operations, vectors and vector spaces, independence, bases and dimension, coordinates, linear transformations and matrices, determinants, eigenvalues and vectors, and inner products.

295. Elementary Topics [1-3, 0-3, 0-3]

Prerequisite: Announced at the appropriate time. Taught when appropriate.

This course is a mechanism for constructing non-permanent courses for specific purposes during or between semesters. Courses can range from one credit laboratories in, say, solving equations with Cramer's rule to three credit courses on topics of immediate importance.

320. Ordinary Differential Equations [3-3-0]

Prerequisite: *Math 240* and *250*. Taught both semesters.

An exposition of the theory and methods of solution of elementary differential equations along with applications. Topics include first order equations, n -th order linear equations with constant coefficients, series solutions of second order linear equations, Laplace transforms, systems of first order equations, and an introduction to two point boundary value problems.

335. Applied Probability [3-3-0]

Prerequisite: *Math 240* and *250* or consent of instructor. Taught fall semester 1980-1981.

Elementary probability theory including combinatorics, distributions of random variables, conditional probability and moment generating functions. Examples of stochastic processes such as Markov chains, random walks, reliability theory, Brownian motion, renewal process, branching process and queueing theory.

360. Advanced Calculus [3-3-0]

Prerequisite: *Math 250* and *260*. Taught fall

semester.

A one-semester course covering various topics in advanced calculus and elementary analysis. Topics may include the definition of the real numbers, topology of the real numbers, functions of bounded variation, Riemann-Stieltjes integration, sequences of functions, series of functions, Taylor and Fourier series, or uniform convergence.

370. Abstract Algebra [3-3-0]

Prerequisite: *Math 250* and *260*. Taught spring semester.

An introduction to algebraic structures, elementary number theory, groups, rings, homomorphism theorems, quotient structures, polynomial rings, and fields.

380. Numerical Analysis I [3-3-0]

Prerequisite: *Math 240* and *260*; *Computer Science 250* or equivalent. Taught fall semester 1979-80.

A survey of numerical methods of scientific and engineering problems. The course will include such topics as: roots of linear and nonlinear systems of equations, integration, differentiation, interpolation and approximation, ordinary differential equations and eigenvalue problems. Consideration will be given to theoretical concepts and to efficient computational procedures.

390. Mathematical Methods of Operations Research I [3-3-0]

Prerequisite: *Math 250* and *260*. Taught fall 1980-81.

Properties of convex sets in Euclidean spaces. Extreme values of linear functionals on convex polyhedra. The general linear programming problem. The simplex algorithm, theoretical and computational aspects. Duality and its relationship to game theory. Case studies.

395. Elementary Topics [3-3-0]

Prerequisite: Consent of the instructor or the chairman of the department unless otherwise listed. Taught when appropriate.

The exact course(s) to be offered in any one semester and a description of the course(s) will be found in the pre-registration schedule

for that semester.

400. Mathematical Methods of Operations Research II [3-3-0]

Prerequisite: *Math 390 and 360* or permission of the instructor. Taught spring 1980-1981. Mathematical theory and techniques such as network algorithms, integer programming, sequencing and scheduling, dynamic programming, and nonlinear programming. Case studies.

420. Methods of Applied Mathematics - Continuous Models [3-3-0]

Prerequisite: *Math 320 and 360*. Taught spring semester 1979-80.

Mathematical modeling and solution of some problems that arise in the natural sciences. Areas may include Fourier series, advanced ordinary differential equations, partial differential equations, special functions, Laplace transforms, calculus of variations, tensor calculus, and control theory.

435. Mathematical Statistics [3-3-0]

Prerequisite: *Math 335 and 360* or permission of the instructor. Taught spring semester 1980-1981.

A study of the nature, scope, and theoretical basis of methods of estimation, hypothesis testing, and statistical decision making. Descriptive statistics, quality of estimators and best tests, techniques of estimation and hypothesis testing, and regression analysis. Additional topics such as analysis of variance, nonparametric procedures, sampling techniques, and SPSS.

440. Advanced Vector Calculus [3-3-0]

Prerequisite: *Math 360* or consent of instructor or chairman. Taught fall semester 1979-80.

Differential geometry of curves and surfaces, vector differential calculus, the implicit and inverse function theorems, vector integral calculus in two and three dimensions, Green's, Stokes', and Gauss' Theorems, and line and surface integrals.

470. Applied Modern Algebra [3-3-0]

Prerequisite: *Math 370*. Computer Science

250 or equivalent. Taught fall semester 1980-81.

An introduction to applications of algebra and discrete mathematics to machine and systems theory. Set and graph theory, semigroups, finite state machines, boolean operations, turing machines, machine homomorphisms and decompositions, circuits optimization, machine products and other topics in discrete mathematics.

480. Numerical Analysis II [3-3-0]

Prerequisite: *Math 360 and 380*. Taught spring semester 1979-80.

A continuation of *Math 380*. Topics will be chosen from partial differential equations, eigenvalue problems and approximation techniques and other topics.

495. Advanced Topics [3-3-0]

Prerequisite: Consent of the instructor or the chairman of the department, unless otherwise listed. Taught when appropriate.

This course will usually consist of one or more of these topics: advanced differential equations, advanced numerical methods, modeling, complex variables, geometry, optimization, real analysis, or topology. The exact course(s) to be offered in any one semester and a description of the course will be found in the pre-registration schedule for that semester.



Military Science [Army]

General

A unit of the Reserve Officers' Training Corps was established at the College of William and Mary on July 1, 1947, with an assigned mission to qualify students for positions of leadership and management in the Armed Forces. By participating in the ROTC Program, a student can earn a commission as a 2nd Lieutenant in the Regular Army or the United States Army Reserve, while pursuing his or her degree. A general military science curriculum is offered which enables a cadet to qualify for assignment into any one of the 13 branches of the Army.

Available by arrangement with the Department of Military Science of the College of William and Mary, certain courses are offered at Christopher Newport College while others are offered only on the Williamsburg campus.

MS 101, 102, 103 and 104 are taught on campus at Christopher Newport College. MS 301, 302, 401, and 402 are available only at the College of William and Mary campus.

What ROTC Offers

1. A minimum of \$2,000 in scholarship money to each cadet during his junior and senior years.
2. A guaranteed job with a starting salary in excess of \$10,000 per year.
3. A commission as a 2nd Lieutenant in the United States Army.
4. Extensive leadership and management courses which are applicable to both civilian industry and the military service.
5. An opportunity to participate in such activities as Orienteering, Mountaineering, Survival Training and Marksmanship.

Scholarships

Four-, three-, two-, and one-year Army ROTC scholarships are available to outstanding high school seniors and applied for in the junior or senior year. Three-, two-, and one-year scholarships are available to college freshmen, sophomores and juniors respectively who are already participating in the ROTC Program. The scholarship will pay for the following.

1. Tuition
2. Books
3. Lab Fees
4. \$100.00 per month (tax free)

In addition, all non-scholarship cadets enrolled in the Advanced ROTC Program receive scholarship monies of \$100 per month (tax free) during the junior and senior years with no additional obligation.

Books and Uniforms

All books, uniforms and materials needed for participation in the ROTC programs are furnished by the Military Science Department at no cost to the student.

Requirements for Commissioning

4-year program:

1. Completion of all Military Science courses listed in this catalog.
2. Between the junior and senior years a cadet must attend a 6-week ROTC Advanced Camp.

2-year program:

1. Between the sophomore and junior years a cadet must attend ROTC Basic Camp for 6 weeks.
2. During the junior and senior years a cadet must take MS 301, 302, 401, and 402.
3. Between the junior and senior years a cadet must attend a 6-week ROTC Advanced Camp.

Requirements for Enrollment

Any full-time college student who is a citizen of the United States, physically qualified, and not already holding a commission in any of the Armed Forces may, when he matriculates, enroll in Basic Military Science. Those meeting the above qualifications, but who have had prior military experience, whether in the Armed Forces or in another college, or in Junior ROTC in high school, may, commensurate with the degree of such experience, enroll in Military Science at a higher level.

101. Military Science I & II [2-2-0]

Taught fall semester.

This semester will consist of two basic phases. Phase one will be studies on the topic of National Security Policy. The course presents the theory of the formation and execution of American National Security Policy and will include an appraisal of such problems as the

use of nuclear weapons, ideological and psychological conflict, and the role of the military in national policy. Emphasis will be placed on the major ideological, technological and political factors which have shaped existing policy and which will determine future trends in policy. Phase two of the instruction will be taught outdoors and will teach students orienteering skills. During the class, cadets will learn basic map reading, use of the compass and techniques of land navigation. They will combine these skills in timed exercises designed to locate designated markers in wooded terrain.

102. Military Science I & II [2-2-0]

Taught spring semester.

This semester will consist of two basic phases. Phase one will be studies on the basic theory underlying modern revolutionary warfare using case histories from Cuba, China and the Philippines. Phase two of the instruction will deal with the subject of patrolling. In this phase cadets will receive instruction on recon and combat patrols. They will learn to plan, organize and conduct patrols by participation in actual patrols.

103. Military Science I & II [2-2-0]

Taught fall semester.

This semester will consist of two basic phases. Phase one will be studies on the topic of basic leadership and management. The scope of the instruction will include an in-depth study of leadership traits and principles, an introduction to management theory, and a detailed study of the basic management functions as they are applied to managing organizations within the framework of the new volunteer Army concept. Phase two of the instruction will be practical in nature and develop basic tactical skills such as planning and controlling squad-sized operations in a tactical environment. Phase two will be oriented toward outdoor-type of instruction.

104. Military Science I & II [2-2-0]

Taught spring semester.

This semester will consist of two basic phases. Phase one will be studies on the topic of American Military Development. The scope of the course will include the historical growth and development of the American Armed Forces with principal emphasis on

military theory and doctrine, the principles of war, military professionalism, strategy, tactics, and logistics. Areas examined include. Battle and operational history and the interrelationships between the military and society. Phase two of the instruction will be practical in nature and will cover techniques of survival. Students learn and practice building survival shelters, identifying and collecting survival foods and many other keys to successful survival.

301. Military Science III [2-2-0]

Taught fall semester.

Studies of advanced leadership and management. The scope of the course will cover in detail the decision-making process, situational estimates, styles of leadership, and authority relationships. Also covered will be the structure and functioning of both the formal and informal organization, to include topics, such as span of control, information feedback, chain of command, goals and motivation related to the military organization.

302. Military Science II [2-2-0]

Taught spring semester.

Instruction given during this semester will be directed toward the reinforcement of prior military skills and developing new skills in preparation for advanced camp. Subjects covered will be marksmanship, weapons, physical training, map reading, and navigation, tactics and patrolling.

401. Military Science IV [2-2-0]

Taught fall semester.

Studies in Civil-Military Relations. The scope of the course will present a theory of civil-military relations and their impact on the contemporary world scene. Emphasis is placed on the extent to which these relations tend to affect the military security of society. The relationship of civil law and military law will also be examined in detail.

402. Military Science IV [2-2-0]

Taught spring semester.

Studies in organizational management. The scope of the courses will include an analysis of both the classical and behavioral theories of organizational structure, staff and line relationships of complex organizations, and the determinates of effective leadership and

management in higher level organizations. Also investigated will be the relationship between individual and organizational motivation, line versus staff functions and the structure of higher level, complex organizations of a military force.

Modern Foreign Languages and Literatures

Associate Professors: Reppen, Guthrie
Assistant Professors: King, St. Onge
(Chairman), Scheiderer

The Department of Modern Foreign Languages and Literatures offers courses and programs that are designed to teach the student to understand and to speak a foreign language with facility, to develop skill in reading and writing, and to promote understanding and appreciation of foreign cultures and literatures. The Department also helps students to prepare for the teaching profession, the domestic and international business world, government work, social and welfare work, careers in science and medicine, work in and relating to the fine and performing arts, and research leading to advanced degrees. Thus, modern foreign languages and literatures are both an integral part of the liberal arts program and of many different career-oriented programs at the college. Major and minor programs are offered in French and in Spanish, and a minor is offered in German.

The study of a foreign language is one of the Distribution Requirements at the College. There are four courses in French, German, and Spanish, designed to satisfy this requirement; they are listed as 101-102 and 201-202 for each language. A student who has had no previous experience in foreign languages must take the four course sequence in one of the three modern foreign languages offered by the Department.

The results of a placement examination will determine where the student with previous language experience will begin his or her course work. Wherever the student begins, he or she must complete the sequence through the 202 course. Upon completion of 202, the foreign language requirement will be

satisfied. Many students will earn up to fourteen credits for courses in the basic sequence they did not have to take as a result of advanced placement. Students scoring beyond the 202 level on the placement examination satisfy the distribution requirement and receive fourteen credits (this new policy is not retroactive). Consult any member of the Department for further information.

Students with French, German, or Spanish as their native language may not take the 101 or 102 course in that language for credit. These students must, however, take the placement examination; the results will be evaluated for appropriate placement by the Department.

The Department of Modern Foreign Languages and Literatures offers four courses in English designated as ML 205, ML 206, ML 308, and ML 395. The first two ML courses (205, 206) will satisfy the Humanities Distribution Requirement for all degree-seeking students at the college. These courses are not sequential; a student may take them in the order most convenient to his or her schedule. ML 395 is a topics course which may be taken as an elective. ML 308 may also be taken as an elective.

Modern Language

ML 205. *The Novel of the French, German, Spanish, and Italian Speaking Worlds in English Translation* [3-3-0]

Taught fall semester.

A course team-taught by members of the Department of Modern Foreign Languages and Literatures designed to acquaint the student with masterpieces of foreign literature through English translation. Material drawn from selected works of prose narrative from the French, German, Spanish, and Italian worlds. Texts chosen to provide a critical-historical perspective of major literary theme.

ML 206. *The Drama of the French, German, Spanish, and Italian Speaking Worlds in English Translation* [3-3-0]

Taught spring semester.

A course team-taught by members of the Department of Modern Foreign Languages

and Literatures and designed to acquaint the student with masterpieces of foreign literature through English translation. Material drawn from selected works of drama from the French, German, Spanish, and Italian worlds. Texts chosen to provide a critical-historical perspective of a major literary theme.

ML 308. Contemporary Culture of the French, German, and Spanish-Speaking Worlds [3-3-0]

Prerequisite: Junior or Senior Standing or consent of the instructor. ML 308 is a cross-cultural course team taught in English by members of the Department of Modern Languages. The goal of the course is to familiarize the student with current cultural phenomena, institutions, and patterns outside of his own frame of reference. General anthropological orientation will be presented as a departure for the discussion of the particular social, political, and national characteristics of the language areas involved.

ML 395. Elementary Topics in English Translation [3-3-0]

Prerequisite: Completion of Humanities Distribution Requirement or consent of instructor. Courses for majors and non-majors in cross cultural topics, comparative literature, and French, German, Italian, Spanish, and Latin-American literature in translation. No student may enroll more than twice for credit.

French

A major program in French consists of twenty-seven semester hours above the 202 level and must include French 251, 252, and French 301 or 303. The remaining eighteen hours of major electives are left to the discretion of the student so that each individual can create a major program emphasizing either literature or language and civilization courses according to his or her career objectives. The Department recommends that cognate courses in English, history, philosophy, music, and art be studied to support the major. The study of a second language is strongly recommended. Unless otherwise specified, the prerequisite for all 300- and 400-level courses is 251-252 or consent of the instructor.

A minor program in French consists of eighteen hours of course work above the 100

level and must include French 251 and 252. The minor program in French is a valuable complement to many concentrations, particularly biology, business administration, chemistry, economics, elementary education, English, history, philosophy, political science, psychology, sociology, and theater arts.

In conjunction with the Education Department, the Department of Modern Foreign Languages and Literatures offers a teacher education program which prepares students to teach French in intermediate and secondary schools.

Program for French Majors with Secondary Teacher Preparation (Minor in Secondary Education)

Course	Hours
Freshman Year	
English 100-level sequence	6
French 101-102	8
Social Science (Psychology 201-202)	6
Laboratory Science	8
Physical Education	4
	32
Sophomore Year	
French 201-202	6
Social Science (History 201-202)	6
Humanities (French 251-252)	6
Mathematics 100-level	6
Physical Education 321	3
Speech 201	3
Elective	3
	33
Junior Year	
Psychology 307 or 309	3
Psychology 312	3
Education 300	3
French 302	3
French 304 or 306	3
French 301 or 303	3
French 310	3
French Elective	3
Electives	9
	33
Senior Year	
Education 303 (fall semester)	3
Education 404 (fall semester)	3
Education 401S (spring semester)	6
Education 403L (spring semester)	3
Education 414 (spring semester)	3
French 311	3

French 403
Electives (Major or Minor)

3
3
27

Sample Program for French Majors

Course	Hours
Freshman Year	
English 101-102	6
French 101-102	8
Social Science	6
Humanities	6
Math	6
	32
Sophomore Year	
French 201-202	6
Social Science	6
Lab Science	8
Second Language or Minor	8
Physical Education	4
	32
Junior Year	
French 251-252	6
French 301 or 303	3
French Electives	6
Second Language or Minor	6
Electives or Education	9
	30
Senior Year	
French Electives	12
Second Language or minor	6
Elective or Education	12
	30

101, 102. Elementary French [4-3-1][4-3-1]

Taught both semesters.

Establishment of a basic foundation in the French language. Emphasis on the acquisition of practical vocabulary and structure through oral usage in the classroom and laboratory. Reading and writing skills based on the same material are developed simultaneously.

103. Accelerated Elementary French [3-3-0]

Prerequisite: Placement examination.

An accelerated review of French grammar. Structure and vocabulary-building exercises.

201. Intermediate French [3-3-0]

Prerequisite: French 101-102, or 103, or by placement examination. Taught fall semester.

A review of basic vocabulary and structures, emphasizing increased oral fluency and

further development of reading, writing, and listening comprehension skills.

202. Intermediate French [3-3-0]

Prerequisite: French 201 or by placement examination. Taught spring semester.

More advanced work in all areas of the language. Material equally divided between practical conversation and selected readings from modern French literature. Compositions of both a practical and literary nature. Lectures, discussions, reports. Conducted chiefly in French.

251. Introduction to French Literature [3-3-0]

Prerequisite: French 202 or the equivalent. Taught fall semester.

A survey of French literature emphasizing the major authors and principal literary movements from the Middle Ages through the seventeenth century. Some study of genres as an introduction to general techniques of literary analysis. Materials treated from both an historical and a thematic approach. Concurrent development of language skills through lectures, discussions, and short themes in French.

252. Introduction to French Literature [3-3-0]

Prerequisite: French 202 or the equivalent. Taught spring semester.

A survey of French literature emphasizing the major authors and principal literary movements from the eighteenth century to the present. Some study of genres as an introduction to general techniques of literary analysis. Material treated from both an historical and a thematic approach. Concurrent development of language skills through lectures, discussions, and short themes in French.

301. Grammar and Composition [3-3-0]

Prerequisite: French 202 or the equivalent. Offered in alternate years.

Review of the main principles of syntax, composition and translation. Conducted chiefly in French.

302. Practical Conversation [3-3-0]

Prerequisite: French 202 or the equivalent. Offered in alternate years.

The aim of this course is to develop greater

fluency in speaking and writing idiomatic French. Intensive oral-aural training. Conducted chiefly in French.

303. Advanced Grammar and Composition [3-3-0]

Prerequisite: French 202 or the equivalent. Study of syntax and style through composition and translation. Conducted chiefly in French.

304. Conversational Approach to Society and Institutions [3-3-0]

Prerequisite: French 202 or consent of the instructor. Conversations emphasizing social phenomena and institutions serve as the format for improving general fluency and developing a more abstract vocabulary than in 302. Stress will be placed on vocabulary related to French society and social situations.

306. Facets of a Changing France [3-3-0]

Prerequisite: French 202. The focus of the classroom work will be conversational. Newspapers, magazines, and films will be used to present the various facets of change in contemporary France and will serve as the basis for discussions. The primary goal of French 306 will be to improve the student's ability to express himself in a loosely-structured context on topics of current import. Techniques will include reports, group discussions, and interview situations.

310. Practical French Phonetics [3-3-0]

Prerequisite: French 202 or equivalent. An intensive study of pronunciation, rhythm, intonation, and the international phonetic alphabet designed to increase oral proficiency. Extensive use of programmed laboratory materials.

311. French Civilization [3-3-0]

Prerequisite: French 201 or equivalent. A study of French society and culture from their origins to W.W.I, encompassing geography, history, art, and social customs.

312. Contemporary France [3-3-0]

A study of French culture and society from WW I to the present, encompassing social and political trends, art, architecture, and historical events.

361. Seventeenth-Century French Literature [3-3-0]

Prerequisite: French 251-252 or consent of instructor. A survey of the major authors and genres of the seventeenth century, including the dramatists, the moralists, and the baroque poets. Emphasis on the theatre through selected plays of Corneille, Moliere, and Racine. Conducted chiefly in French.

371. Eighteenth-Century French Literature [3-3-0]

Prerequisite: French 251-252 or consent of instructor. Reading and analysis of the major works of the French Enlightenment. Developments in the novel and the theatre of the period.

381. Nineteenth-Century French Literature [3-3-0]

Prerequisite: French 251-252 or consent of instructor. A survey of the major authors and works of nineteenth century prose, poetry, and drama. Organization of the material by genre within the context of the principal literary movements of the period from Romanticism to Symbolism.

395. Elementary Topics [3-3-0]

Prerequisite: French 251-252 or consent of instructor. A seminar in major literary periods or topics related to historical and cultural developments. Emphasis on research methods. No student may enroll more than twice for credit.

403. Advanced Writing and Stylistics [3-3-0]

Prerequisites: French 301 or 303 or consent of the instructor. French 403 is directed toward the student who is already familiar with the basic principles of French grammar and composition. The emphasis at this level is on increasing the student's facility in writing French and on helping him develop appropriate levels of style. These goals will be implemented through a variety of written work, including free and guided compositions, translation, and business correspondence.

491. Twentieth-Century French Novel [3-3-0]
Prerequisite: French 251-252 or consent of instructor.

A critical and historical study of prose fiction in the twentieth century, emphasizing the development of the genre as seen in the novels of Proust, Gide, Malraux, Mauriac, Sartre, Camus, and other major authors.

492. Twentieth-Century French Poetry and Drama [3-3-0]

Prerequisite: French 251-252 or consent of instructor. A critical and historical study of the major poetic trends of the twentieth century as seen in the works of Apollinaire, Peguy, Claudel, Valery, the Surrealists, and Prevert. Accompanying study of the drama of the period through the works of Apollinaire, Claudel, Giraudoux, Anouilh, Cocteau, Sartre, Ionesco, and Becket.

495. Advanced Topics in French [3-3-0]

Prerequisite: Senior standing or consent of instructor. A seminar in major authors or topics related to historical and cultural periods with subject matter and instructor changing each semester. The seminar topic will represent both student interest and the specialty (or research in progress) of an individual member of the department. No student may enroll more than twice for credit.

499. Independent Study [3-3-0]

Prerequisite: Upperclass standing. A course for upperclassmen in French studies. The area of study and number of credits may vary each time the course is taken.

German

A minor program in German consists of eighteen hours of course work above the 100-level. No specific courses are required. The minor program in German is a valuable complement to most concentrations, particularly biology, business administration, chemistry, economics, elementary education, English, French, history, philosophy, political science, psychology, sociology, Spanish, and theater arts.

In conjunction with the Education Department, the Department of Modern Foreign Languages and Literatures offers a program

leading to preparation for the teaching of German in intermediate and secondary schools.

Unless otherwise noted, all German courses will be conducted chiefly in German.

101, 102. Elementary German [4-3-1][4-3-1]
101 taught in fall semester and 102 taught in spring semester.

An introduction to understanding, speaking, reading, and writing German. The student uses the language in practical situations while acquiring a basis for reading and writing the language in his area of interest. May not be taken by a native speaker of the language. First semester may not be taken for credit by students with two or more years of high school German.

103. Accelerated Elementary German [3-3-0]

Prerequisite: Placement Examination. A special course in German language for students who have been exposed to the language through formal study or foreign experience. Emphasis is placed on active use of the language in practical situations, with exercises on structure and vocabulary providing a basis for the use of reading and writing in the student's area of interest.

201. Intermediate German I [3-2-1]

Prerequisite: 102 or 103 or Placement Examination. Taught fall semester. A course reviewing the major grammatical structures of the language and further developing the student's ability to understand, speak, read, and write German. Emphasis is placed on use of the language.

202. Intermediate German II [3-3-0]

Prerequisite: 201, by placement or by consent of instructor. Taught spring semester. Readings and discussions in modern German literature, culture, and civilization. Emphasis is placed upon the expansion of the student's active and passive vocabularies toward the goal of using a knowledge of German for leisure, vocational, or professional purposes. Alternate independent reading and translation projects are available within the course for students in business and the social and natural sciences.

251, 252. Introduction to German

Literature [3-3-0] [3-3-0]

Prerequisite: German 202 or the equivalent. 251 taught fall semester; and 252 taught spring semester.

A survey of German literature emphasizing major writers and literary trends, first semester from the beginnings through the Age of Goethe, second semester from 1800 to the present.

301. Grammar and Composition [3-3-0]

Prerequisite: German 201 or the equivalent. A course dealing with the chief difficulties of grammar and the main principles of syntax, focusing on the development of skill in writing and translating. Included is an individualized writing and translating track determined by the student's expressed interest or major field.

302. Conversation and Comprehension [3-3-0]

Prerequisite: German 201 or the equivalent. A course to develop greater fluency in speaking idiomatic German and greater ability to comprehend the language in a variety of practical situations. Phonology, intensive training in speaking and listening, extensive use of recorded and filmed materials and native speakers, discussions.

303. Usage and Stylistics [3-3-0]

Prerequisite: German 202 or the equivalent. A course in usage and prose style through composition and translation. The student is introduced to the major reference works in usage and diction and for translation. Essay topics and translation projects to be determined by the area of interest or concentration of the student.

311. German Civilization [3-3-0]

Prerequisite: German 202. A study of the German-speaking area of Europe, encompassing art, music, philosophy, history, geography, and social customs. Emphasis on the contributions of the German-speaking societies to Western civilization. Guest lecturers in the above subjects will be invited whenever possible.

395. Topics [3-3-0]

Prerequisite: Junior standing or consent of instructor.

Courses in major literary periods and genres, in practical aspects of the language, in German civilization, and in German literature in translation. Courses in translation may not be counted toward a minor in German. No student may enroll more than twice for credit.

490. Seminar in German Literature [3-3-0]

Prerequisite: Senior standing or consent of instructor.

Topics in major authors or specific literary themes. The seminar topic will represent both student interest and the specialty or research in progress of individual members of the department. No student may enroll more than twice for credit.

499. Independent study

Prerequisite: Senior standing or consent of instructor. Taught upon request and at the discretion of the department.

Projects for upperclassmen in German language, literature, and civilization.

Spanish

A major program in Spanish consists of a minimum of twenty-seven semester hours above the 202 level and must include nine hours selected from the following courses: Spanish 251, 252, 301, 303, 351, or 352. The remaining eighteen hours of major electives are left to the discretion of the student in consultation with his or her advisor, so that each individual may create a major program emphasizing his or her particular career objectives. The Department recommends that cognate courses in English, history, philosophy, music, and art be studied to support the major. Unless otherwise specified, the prerequisite for all 300- and 400-level courses is the successful completion of Spanish 251 or 252 or the consent of the instructor.

A minor program in Spanish consists of eighteen hours of course work above the 100-level and Spanish 251, 252, or Spanish 351, 352 are recommended. The minor program in Spanish is a valuable complement to most majors, particularly biology, business administration, chemistry, economics, elementary education, English, history, philosophy, political science, psychology, sociology, and theater arts.

In conjunction with the Education Department, the Department of Modern Foreign Languages and Literatures offers a teacher education program which prepares students to teach Spanish in intermediate and secondary schools.

Program for Spanish Majors with Secondary Teacher Preparation (Minor in Secondary Education)

Course	Hours
Freshman Year	
English 100-level sequence	6
Spanish 101-102	8
Social Science (Psychology 201-202)	6
Laboratory Science	8
Physical Education	4
	32

Sophomore Year	
Spanish 201-202	6
Social Science (History 201-202)	6
Humanities (Spanish 251-252)	6
Mathematics 100-level	6
Physical Education 321	3
Speech 201	3
Elective	3
	33

Junior Year	
Psychology 307 or 309	3
Psychology 312	3
Education 300	3
Spanish 301 or 303	3
Spanish 302 or 304	3
Spanish 311 or 312	3
Spanish Electives	6
Electives	9
	33

Senior Year	
Education 303 (fall semester)	3
Education 404 (fall semester)	3
Education 4015 (spring semester)	6
Education 4031 (spring semester)	3
Education 414 (spring semester)	3
Spanish Electives	6
Electives (Major or Minor)	3
	27

Sample Program for Spanish Majors

Course	Hours
Freshman Year	
English 101-102	6
Spanish 101-102	8
Social Science	6

Humanities	6
Math	6
	32

Sophomore Year	
Spanish 201-202	6
Social Science	6
Lab Science	8
Second language or minor	8
Physical Education	4
	32

Junior Year	
Spanish 251, 252	6
Spanish 301-303	3
Spanish Electives	6
Second language or minor	6
Elective or Education	12
	30

Senior Year	
Spanish Electives	12
Second language or minor	6
Elective or Education	12
	30

101, 102. Elementary Spanish [4-3-1][4-3-1]

Taught both semesters. An introduction to the Spanish language, with emphasis on reading, writing, speaking, and listening comprehension. Accompanying laboratory practice.

103. Accelerated Elementary Spanish [3-3-0]

Prerequisite: Placement examination. Taught each fall semester. An accelerated review of elementary Spanish grammar with emphasis on speaking and listening skills.

201. Intermediate Spanish [3-3-0]

Prerequisite: Spanish 101-102, 103, or placement examination. Taught fall semester. A review of grammatical structure, with further development of reading, writing, speaking, and listening comprehension skills.

202. Intermediate Spanish [3-3-0]

Prerequisite: Spanish 201 or placement examination. Taught spring semester. Further development of reading, writing, speaking, and listening comprehension skills. Conducted chiefly in Spanish.

251, 252. Introduction to Spanish Literature [3-3-0] [3-3-0]

Prerequisite: Spanish 202 or consent of

instructor.

A survey of Spanish literature, emphasizing the major writers and the dominant literary trends. First semester from *El Cid* through the Golden Age; second semester from 1700 to the present.

301. Grammar and Composition [3-3-0]

Prerequisite: Spanish 202 or the equivalent. Taught fall semester.

Review of main principles of syntax. Composition and translation. Conducted chiefly in Spanish.

302. Conversation [3-3-0]

Prerequisite: Spanish 202 or the equivalent. The aim of this course is to develop the ability to speak Spanish with greater fluency. Intensive oral-aural training. Conducted chiefly in Spanish.

303. Advanced Grammar and Composition [3-3-0]

Prerequisite: Spanish 202 or the equivalent. Taught in 1978-79.

Study of syntax and style through composition and translation. Conducted chiefly in Spanish.

304. Practical Conversation and Diction [3-3-0]

Prerequisite: Spanish 202 or consent of instructor. Taught in 1978-79.

A course designed to increase the speaking ability of the students through the use of live radio and interviews of native speakers on topics of current interest. Emphasis will be placed on proper and accurate pronunciation as well as fluency.

311. Spanish Civilization [3-3-0]

Prerequisite: Spanish 202 or consent of instructor. Taught fall semester, 1978-79.

A study of contemporary society and culture of Spain encompassing geography, history, art, music, and social customs.

312. Spanish-American Civilization [3-3-0]

Prerequisite: Spanish 202 or consent of instructor.

A study of contemporary society and culture of the Spanish-American countries encom-

passing geography, history, art, music, and social customs.

351, 352. Introduction to Spanish-American Literature [3-3-0] [3-3-0]

Prerequisite: Spanish 251, 252, or consent of instructor.

A survey of Spanish-American literature, emphasizing the major writers and the dominant literary trends. First semester from the colonial period to Modernism. Second semester from Modernism to the present.

363. Drama of the Golden Age [3-3-0]

Prerequisite: Spanish 251, 252, or consent of instructor.

Detailed study of the drama of the Golden Age. Lope de Vega, Cervantes, Tirso de Molina, Ruiz de Alarcón and Calderón de la Barca.

364. The Novel and the Poetry of the Golden Age [3-3-0]

Prerequisite: Spanish 251, 252, or consent of instructor.

Major emphasis on the picaresque novel and the development of poetic expression from Garcilaso to Gongora.

391. The Generation of '98 [3-3-0]

Prerequisite: Spanish 251, 252, or consent of instructor.

Representative figures include Unamuno, Azorín, and Baroja.

392. Twentieth-Century Spanish Literature [3-3-0]

Prerequisite: Spanish 251, 252, or consent of instructor.

Contemporary studies in the genres of poetry, drama, and the novel.

393. Modernismo [3-3-0]

Prerequisite: Spanish 251, 252, or consent of instructor. Taught fall semester, 1978-79.

A critical and historical study of the poetry and prose of the Modernistas and successors.

394. Twentieth-Century Spanish-American Literature [3-3-0]

Prerequisite: Spanish 251, 252, or consent of instructor. Taught spring semester, 1978-79.

Critical and historical study of representative

works of the twentieth century.

495. Elementary Topics [3-3-0]

Prerequisite: Spanish 251, 252, or consent of instructor. Taught both semesters.

A seminar in major literary periods or topics related to historical and cultural developments. Emphasis on research methods. No student may enroll more than twice for credit.

463. Cervantes [3-3-0]

Prerequisite: Spanish 251, 252, or consent of instructor. Taught spring semester, 1978-79.

A seminar on Cervantes, his life and works. Major emphasis on *Don Quixote*.

495. Advanced Topics in Spanish [3-3-0]

Prerequisite: Senior standing or consent of instructor. Taught both semesters.

A seminar in major authors or topics related to historical and cultural periods, with subject matter and instructor changing each semester.

The seminar topic will represent both student interest and the specialty (or research in progress) of an individual member of the department. No student may enroll more than twice for credit.

499. Independent Study [3-3-0]

Prerequisite: Upperclass standing. Taught both semesters upon request and at the discretion of the Department.

A course for upperclassmen in Hispanic Studies. The area of study and number of credit hours may vary each time the course is offered.

Philosophy and Religious Studies

Associate Professors: Hoaglund (Chairman), Nauman

Assistant Professors: Powell, Teschner

The philosophy program at the College is liberal in its orientation in that it aims to free the mind of prejudice and dogma to prepare the way for a critical stance that produces affirmative beliefs. It focuses on two areas of general human interests: methods of correct thinking and the values people live by. The

Department affirms that every human being has a responsibility to himself to develop his native abilities in order to lead a full and satisfying life. Clear thinking and a sharpened sense of values contribute significantly to this end. A democratic form of government such as ours can flourish only when its citizens are aware of the value implications of proposed policies and can logically weigh and rationally debate their merits. Courses in logic, the theory of knowledge, the philosophy of language, and the philosophy of science are designed to improve the student's ability to think critically and reason incisively. Courses in ethics, aesthetics, social and political philosophy, and the philosophy of religion are designed to sharpen the student's awareness of values in several main areas of human endeavor; these courses encourage the student to weigh competing values against each other as the foundation of intelligent decision-making. Other courses combine these two aims.

To major in philosophy the student must take at least thirty hours in philosophy or philosophy and religious studies. No set sequence of courses is prescribed, although Philosophy 101-102 should be taken at an early stage. Students should work out a specific program with their advisor. The main goal of philosophy is to prepare people for an enriched life. Philosophy is also an excellent preparation for specific professions, and many philosophy majors enter careers in publishing, journalism, broadcasting, business, marketing, or governmental administration at the local, state, or national levels. A number of philosophy majors enter graduate school for advanced degrees in the humanities and then go into college-level teaching. Others enter graduate programs in business administration or law school, for which their training in logical techniques and value-awareness provides them an excellent background. Combined with the proper courses in the natural sciences, the B.A. in Philosophy can provide an excellent undergraduate foundation for those who want to enter a college of medicine or veterinary medicine. Philosophy majors are encouraged to broaden their acquaintance with ancient and recent thinkers and with current issues by independent reading. They are also encouraged to take one or two years of

a foreign language. The requirement for a minor in philosophy is fifteen hours of philosophy or philosophy and religious studies courses above the 100-level.

Philosophy supports other programs at the College wherever critical thinking and a sharpened sense of values are important. The general area of ethics, philosophy and the fine arts, and social, political, and religious values will be of special interest to students concentrating in the humanities and the social sciences. The area of logic, theory of knowledge, philosophy of science and philosophy of language, with its stress on reasoning and analysis, will be of interest to students concentrating in the natural sciences, mathematics, and computer science.

Courses in the *Religious Studies Program* involve the empathetic and critical analysis of religious traditions in order to understand their development and their present character. As an academic discipline, Religious Studies does not seek to promote or to condemn any particular creed, institution, or way of life. Rather the goal is the exploration and clarification of diverse religious traditions and consideration of their similarities and differences.

As a part of a liberal education, this study fosters an awareness of one's own religious and cultural heritage through knowledge of the religious traditions influencing one's own personal life and culture and through knowledge of other traditions having comparable influence in the lives of other persons and in other cultures. Such awareness should aid in understanding and articulating personal convictions in relation to matters of religious concern. In addition to the personal enrichment that this ability can provide, this reflective capacity can benefit those responsible for instructing others in religious matters (whether as paid professionals or as volunteers). Generally, in fact, any person responsible for dealing with other persons in counseling and healing roles should have some knowledge of the function of religion in the lives of individuals and cultures. Sensitive understanding of these matters can only enhance one's effectiveness.

Courses in Religious Studies count as humanities electives and as credits within a philosophy minor or major.

Sample Program for Philosophy Majors

Course	Hours
Freshman Year	
English 101-102	6
Philosophy 101-102	6
Laboratory Science	8
Social Science requirement	6
Physical Education	4
	30
Sophomore year	
Philosophy 201-202	6
Philosophy 307-308	6
Social Science requirement	6
Foreign Language	8
Electives	6
	32
Junior year	
Philosophy 304-305	6
Philosophy electives	6
Foreign Language	6
Electives	12
	30
Senior year	
Philosophy 301, 310	6
Philosophy 490	3
Philosophy electives	9
Electives	15
	33

Philosophy

101. Elementary Logic [3-3-0]

Taught both semesters. This course is designed to impart the basic skills of logical reasoning, techniques of drawing a conclusion from premises, establishing whether certain groups are members of other groups or not, judging whether several statements are consistent or not, recognizing fallacies and avoiding them in one's own reasoning, defining words with precision, establishing relations between evidence and a hypothesis, or between facts and possible explanations. The areas treated are the logic of categorical statements, the syllogism, elementary propositional logic, and some inductive reasoning.

102. Introduction to the Logic of Philosophic Inquiry [3-3-0]

Taught both semesters. The application of

logical techniques of reasoning to some of the basic problems of philosophy that arise in everyone's experience: freedom, alienation, and personal identity; the enigma of being; moral values and the aim of life; ethical relativity and egoism; the justification of religious belief; and the problem of evil.

201. History of Ancient Philosophy [3-3-0]

Taught both semesters. An historical introduction to philosophy with special readings in the presocratics, Plato, Aristotle, the Stoics and Epicureans, St. Thomas Aquinas, and others. The nature of philosophy and basic philosophic problems will be discussed through these writers.

202. History of Modern Philosophy [3-3-0]

Prerequisite: Philosophy 201 or consent of instructor. Taught both semesters. An historical introduction to modern philosophy with readings from Descartes, Spinoza, Locke, Berkeley, Hume, Kant and others. These philosophical writings will be studied not only for their own worth, but also as a means of acquainting the student with the nature of philosophy and the basic philosophical quest. Some time will be given to the political and cultural milieu out of which these philosophies came.

295. Elementary Topics in Philosophy. [3-3-0]

In this course elementary topics in philosophy will be treated on the basis of student interest.

301. Intermediate Logic [3-3-0]

Prerequisite: Philosophy 101 or its equivalent. The purpose of this course is to increase, strengthen, and refine the student's skills in translating complex arguments into symbolic notation and testing them for validity. There is an optional review of truth-functional arguments with stress on deductive rather than truth-table tests of validity. The type of argument treated ascends in complexity from those involving simple quantification to those with more complex multiple quantification and then to relational arguments. Natural deduction techniques will be

used, and the student will work with rules of inference, conditional proofs, and indirect proofs.

302. Advanced Logic [3-3-0]

Prerequisite: Philosophy 301 or its equivalent. Beginning with an examination of some properties of formal deductive systems, this course proceeds to develop axiom systems for both propositional and predicate logic, and to prove the consistency and completeness of each.

304. Ethics and Current Value Questions [3-3-0]

Prerequisite: Junior or Senior standing or consent of the instructor. Taught annually. A systematic study of the central problems of right action, stressing value and decision in the individual, the distinction of facts from values, rules versus ends, generalization and moral rules, the ground and nature of moral obligation, freedom, moral responsibility, and the justification of punishment, the viability of egoism, the relativity of moral values. At every stage the student is provided opportunities to bring his new theoretical and conceptual material to bear on the analysis of moral problems in real-life situations.

305. Theory of Knowledge [3-3-0]

Prerequisite: Philosophy 101 or consent of instructor.

A rigorous examination of the main problems of knowledge designed to aid the student in thinking clearly and precisely; the meaning and reference of words; theories of truth; universals and particulars; theories of perception; the justification of induction; memory or knowledge of the past; knowledge of other minds; empirical and a priori knowledge; the relation of knowledge to belief.

306. Philosophy and the Fine Arts [3-3-0]

Taught annually. This course confronts the student with the artwork and its elementary descriptive terminology and then considers the general significance of the fine arts and beauty or aesthetic value in the life of man by a systematic treatment of these problems: expression, creativity, the objectivity of the

aesthetic judgement; the nature of the aesthetic experience, aesthetic qualities and the aesthetic object; the analysis of aesthetic value, art and morality.

307. Contemporary Philosophy [3-3-0]

Taught annually. An examination of the most important topics and theories of the leading philosophers of the twentieth century. Major British and Continental philosophers will be treated as well as American.

308. Philosophy of Religion [3-3-0]

Taught annually. An analysis of the nature and attributes of God (such as omnipotence and benevolence) with special reference to the problem of evil; statement and criticism of the arguments for the existence of God; the problems of religious language, such as whether religious statements are symbolic, analogical, or meaningless; the relation of reason to revelation, faith, and miracles.

310. Social and Political Philosophy [3-3-0]

Taught annually. An examination of attempts to provide a philosophical foundation for political authority, focusing on such problem areas as traditionalist, contractarian, and utilitarian theories of authority; natural rights; legal positivism; negative and positive political freedom; civil disobedience; distributive justice or equality; retributive justice or punishment; the public interest.

317. Existentialism [3-3-0]

Prerequisite: Junior or Senior standing or consent of instructor.

A study of Existentialism from its 19th-century beginnings with Kierkegaard and Nietzsche to the work of Jaspers, Heidegger, and Sartre. Topics that will be treated include the existentialist view of man's predicament, the concepts of anxiety, dread, and the absurd, the will to power, and man as a being toward death. Both the methodological foundations of Existentialism in the phenomenology of Husserl and its literary roots in such writers as Dostoevsky, Tolstoy, and Camus will be treated.

320. Philosophy of Science [3-3-0]

Prerequisite: Junior or Senior standing or consent of the instructor.

An analysis of scientific thought in the

natural as well as social sciences through a study of its historical development and method. Topics to be discussed will be the nature of observation and its relation to theoretical frameworks, abstraction, generalization and concept formation, measurement, hypothesis and experiment, induction and probability, deductive models of explanation, and reduction.

374. Business Ethics [3-3-0]

Prerequisite: Junior or Senior standing or consent of the instructor.

The course consists in the application of ethical theory to contemporary moral decisions in the field of business. Actual cases from business are analyzed and discussed against the background of a survey of the major traditions in moral philosophy.

384. Medical Ethics [3-3-0]

Prerequisite: Junior or Senior standing or consent of the instructor. Taught annually.

The focus is on value issues in medicine. The aspects of moral theory relevant to problems in medicine are treated, and recent biomedical technology is examined briefly to discover where value issues arise. The moral problems attending birth and death are treated: abortion and the beginning of human life, severe congenital defects, rights of the dying, the definition and determination of death. Moral issues in the physician-patient relation are treated: confidentiality, informed consent, how much the patient should be told, screening for genetic disease, etc., experimenting with human subjects. Also covered are the moral problems of behavior modification and control, genetic engineering, psycho-surgery, the insanity plea, involuntary commitment. Finally, attention is also devoted to problems of social justice and healthcare delivery, medicine in the market place, the health maintenance organization, the putative right to health care, the allocation of scarce medical resources.

395. Special Topics in Philosophy [3-3-0]

Prerequisite: Three hours of philosophy or consent of the instructor.

The following topics or similar ones will be offered on the basis of student interest: epistemology, British Empiricism, elementary logical theory, methods of inductive reason-

ing, philosophy of science, philosophy of law, business ethics.

421. Eastern Philosophy [3-3-0]

Taught annually.

A study of oriental philosophies using source materials from China, India, Japan, Tibet, Korea, and Persia. Both ancient and modern Asian authors will be studied, including the I-Ching, Bhagavad-Gita, Zen Buddhism, and the Tibetan Book of the Dead.

440. American Philosophy [3-3-0]

Prerequisite: Philosophy 201-202 or consent of instructor. Taught annually.

A history of American philosophical thought from colonial times to the present day, from Ames to Hoffer, concentrating on those traits distinctive in American philosophers. Included will be figures from the Golden Age of American philosophers such as William James and George Santayana.

451. Great Philosophers (Ancient) [3-3-0]

Prerequisite: Junior or Senior standing or consent of the instructor. Taught annually.

A comprehensive examination of the writings of one of the major thinkers of the ancient or medieval period. Philosophers such as Parmenides, Plato, or Aristotle will be treated.

452. Great Philosophers (Modern) [3-3-0]

Prerequisite: Junior or Senior standing or consent of the instructor. Taught annually.

A comprehensive examination of the writings of one of the major thinkers of the period from the Renaissance to the present. Philosophers such as Descartes, Spinoza, Locke, Hume, or Kant will be treated.

490. Senior Seminar [3-3-0]

Prerequisite: Open only to philosophy majors with Senior standing. Taught annually.

A seminar course concentrating on one philosopher or concept. A major research paper is required from each student. Recommended for all philosophy majors.

495. Advanced Topics in Philosophy [3-3-0]

Prerequisite: Six hours of philosophy or consent of instructor.

The following topics or similar ones will be offered on the basis of student interest: epistemology, presocratic philosophy, modal logic,

philosophy of language, philosophy of mind, action theory, decision theory, theories of justice.

499. Independent Research [3-3-0]

Prerequisite: Philosophy major, Senior status. A research project involving substantial reading on a specific problem, theme, or the work of an individual philosopher. The research is supervised by a staff member who must approve the project before registration. A research paper is required.

Religious Studies

231. Introduction to World Religions [3-3-0]

Taught annually.

This course involves a consideration of the external history and inner dynamics of diverse religious traditions. Prehistoric and primal religions will be considered alongside such traditions as Judaism, Christianity, Islam, Hinduism, Buddhism, Confucianism, Taoism and Shinto. Questions regarding the general nature of religious belief and practice will also be discussed. What is religion? What is a myth? What is the relation of religion and society?

232. Christianity [3-3-0]

Taught annually.

An introduction to major events, persons, issues, and ideas within the development of the Christian tradition. Special attention is given to the early years of formation within the worlds of Palestinian Judaism and of the Roman Empire and to modern tensions with science and secularism.

361. Old Testament [3-3-0]

Taught annually.

This course concerns the writings of the Old Testament and their role in the development of Hebrew religion. Archaeological, literary, and cultural backgrounds are used to illumine the historical, legal, prophetic, and poetic sections of the writings. An exploration of the meaning of "covenant" provides a continuing focus within the diversity of materials considered.

362. New Testament [3-3-0]

Taught annually.

This course explores the life and teachings of Jesus found in the four gospels and the contributions of Paul to the development of early Christian thought and practice as reflected in his letters and in the Acts of the Apostles. The additional books of the New Testament including non-Pauline epistles and Revelation to St. John will also be considered.

395. *Topics in Religious Studies* [3-3-0]

Taught annually.

The following topics or similar ones will be offered on the basis of student interest: individual religious thinkers such as Maimonides, Augustine, Pascal, and others; periods and schools of thought such as Medieval Scholasticism, modern critics of religion, mysticism, Religion in America.

495. *Advanced Topics in Religious Studies* [3-3-0]

Taught annually.

Prerequisite: Six hours of Religious Studies or consent of Instructor.

The following topics or similar ones will be offered on the basis of student interest: the nature of religious experience; religious language; contemporary religious issues and writers; problems in the study of religion.

Physical Education

Associate Professors: Cummings

(Chairman), Hubbard, Sholtis

Assistant Professor: Vaughan

Instructor: Riley

The Department of Physical Education provides a wide variety of activities courses designed to fulfill the physical education distribution requirement. The Physical Education department is committed to education through a sound mind and a sound body, and to the development of the total individual through participation in physical activity.

Activities Program

In the activities courses, the student learns motor skills valuable for recreational use throughout his or her lifetime. The activities

program stresses such components of physical fitness as cardiovascular and muscular endurance, agility, and coordination. An understanding and appreciation of movement and the scientific principles related to movement exploration are developed through games, activities, and sports. Emphasis is placed upon knowing "how" and "why" an activity or skill should be performed. Moreover, through these activities, the student is encouraged to develop desirable social standards, ethical concepts, and safety skills and habits. The Department also offers individualized programs for students who are handicapped or who are restricted in their physical activity in conjunction with any regular physical activity class. Any applicant, regardless of status, who plans to take a Physical Education activity course, must submit a completed medical examination form every two years. This form will be provided at the time of admission and will be filed with the Physical Education department.

The following activities courses carry two credits each and may be used to satisfy the physical education requirement. *Physical Education 102, Beginning Soccer, 103, Basketball and Volleyball, 111, Lacrosse, 112, Intermediate Soccer, 155, Field Hockey and Basketball, 156, Softball and Volleyball, 170, Beginning Modern Dance, 171, Intermediate Modern Dance, 172, Beginning Tennis, 175, Archery and Badminton, 179, Beginning Swimming, 180, Beginning Fencing, 181, Physical Conditioning, 182, Volleyball, 183, Intermediate Swimming, 184, Beginning Gymnastics, 186, Beginning Golf, 189, Intermediate Gymnastics, 193, Intermediate Tennis, 195, Beginning Bowling, 196, Intermediate Bowling, 197, Beginning Karate, 198, Intermediate Karate, 199, Badminton and Volleyball.*

291. *Personal and Community Health* [3-3-0]

Designed to develop knowledge, understanding, and desirable attitudes related to personal and community health.

305. *Outdoor Education and School Camping* [3-3-0]

A study of the skills and leadership techniques employed in planning outdoor education and recreational school camping

activities. Participation in field trips and overnight camping experiences will be course requirement.

308. *Safety Education* [3-3-0]

This course is designed to develop a knowledge of and attitudes concerning the safety aspects of all areas of activity in the home, school, and community. The course should be taken along with Physical Education 317 for driver training certification in the State of Virginia.

309. *History and Principles of Physical Education and Sport* [3-3-0]

A study of the basic biological, psychological, and sociological contributions of physical education, health and recreation in various societies. The development of physical education, health, recreation and sport from primitive times to the present will be traced.

315. *Officiating Team Sports* [3-3-0]

A study of the official in relation to the mechanical and theoretical application of the rules of football, basketball, soccer, baseball, field hockey and volleyball.

316. *Officiating Individual Sports* [3-3-0]

A study of the official in relation to the mechanical and theoretical application of the rules of badminton, tennis, swimming, wrestling, gymnastics, golf, and track and field.

317. *Driver Education and Traffic Safety* [3-3-0]

Classroom instruction combined with road training, observation, traffic safety, and teaching of driving to beginners on a multiple car range. Knowledge and experience in the use of a simulator and other audio-visual aids will be required.

318. *Physical Education in the Elementary School* [3-3-0]

The study of various techniques, methods and knowledges employed by the elementary school classroom teacher in conducting physical education activities for K-6. Included are: movement exploration, games, exercises, recreational activities and others that are

suitable for the elementary school child.

321. *Foundations of Health* [3-3-0]

The study of the development of a desirable school health program. Emphasis will include: the historical development, pre-school introductions to health practices, the healthful school environment, school health services, health education instruction and first aid and safety.

395. *Topics in Health, Physical Education and Recreation* [3-3-0]

Prerequisite: Upper-level standing or consent of instructor.

395. The student may offer no more than nine credits toward graduation. Topics not included in the regular curriculum will be selected for advanced treatment or to fit special needs.

409. *Human Kinetics: From Theory to Practice* [3-3-0]

Prerequisite: Biology 101-102 and 213.

An analysis of the interaction of psychological and physiological principles related to the study of kinesiology. Course content will be specifically related to the application of knowledge to teaching in physical education and athletic coaching situations.

415. *First Aid, Care and Prevention of Athletic Injuries* [3-3-1]

This course is designed to give the student a background in the prevention of athletic injuries; to instruct the student in various techniques of first aid; and to familiarize the student with rehabilitation techniques and types of equipment.

417. *Organization and Administration of Programs in Sport, Physical Education and Aquatics* [3-3-0]

A study of the nature and function of administration as it relates to physical education, sport, and aquatics. The course provides the student with specific tasks and problems of administrators in schools and colleges.

Physics

Professors: Buonerisiani (Chairman),
G. Webb
Assistant Professors: Al-Salam, J. Webb

The Physics Department offers a core of traditional courses in physics for students in science, mathematics, and engineering. These courses will make it possible for students to develop any one of the following concentrations in physics: (1) a two-year basic pre-engineering program; (2) a degree in mathematics with a concentration in physics that emphasizes practical research; (3) a minor in physics for science and mathematics majors; (4) a pre-professional physics program; and (5) a program of recertification for science teachers. Because the Physics Department combines an emphasis on research with the active service of the community, there are usually several on-going projects involving faculty members in both of these areas. Students who would like to work with the community in the realm of science and society or to assist with research projects will find departmental members able to provide challenging opportunities for independent study.

In addition to its commitment to serve the science student, the department has two special goals: to increase the understanding of the uses of science and technology for solving contemporary problems and to increase public awareness of relations between Science and Technology and the realm of human values. Because of these special goals, the department offers several courses designed to interest students in the liberal arts and in business. The current class schedule or the department chairman should be consulted for special topics courses offered from time to time that may be of interest to students in the humanities and in business as well as in science and mathematics. The overall orientation of the department is the use of physics in the study of the modern world.

A Minor Program in Physics

A minor concentration in Physics requires satisfactory completion of Physics 201-202

and at least fifteen additional credit hours in physics courses above the 200 level. These additional hours must include one course in classical physics and one course in modern physics. Persons who are majoring in Chemistry, Biology, Computer Science, and Mathematics are especially suited for such a minor program.

Mathematics with a concentration in Physics.

This program emphasizes practical scientific, mathematical, and engineering research. During studies the student will work on problems drawn from various areas of physics and mathematics. The requirements for this program are described in the mathematics section of the catalogue. Interested students should consult with members of the Physics and Mathematics Departments.

Pre-Engineering Program

The Physics Department with the cooperation of Old Dominion University has designed a pre-engineering program in which Peninsula students can complete their first two years of engineering study. Persons who finish the program at CNC will begin their studies at ODU contingent upon admission to this school. The program is also suitable for transfer to most other engineering schools in the country.

Christopher Newport's program is ideal for those students who want to try their skills in a personal program that can be individually tailored to their needs, who want to prepare for the large state universities with a high-quality beginning at a moderate-sized college that is near their homes.

An important feature of the program is its flexibility. With a careful choice of electives, the student is prepared for further study as a mechanical, electrical, or civil engineer or for study and research in engineering science. Students who would like more freedom in the courses that they take or who would like a more leisurely pace in order to develop their maturity in the engineering sciences can take three years to complete the program.

The courses in the Pre-Engineering Program are listed below.

Course	First Year	
	Fall	Hours
Chemistry 121		3
Chemistry 125		2
Physics 201		4
Math 140		4
English 101		3
Physics 121		2
		18
	Spring	
Chemistry 122		3
Chemistry 126		2
Physics 202		4
Math 240		3
English 102		3
Physics 122		2
		17

Second Year

Course	Second Year	
	Fall	Hours
Math 250		3
Technical Elective*		3
Physics 301		4
Physics 351		3
Humanities Elective		3
		16
	Spring	
Math 320		3
Math 260		3
Physics 302		4
Computer Science		3
Technical or Humanities Elective		3
		16

*Elective courses within the Physics Department may include Fluid Mechanics, Thermodynamics, Introduction to Electricity and Electronics, Materials Science, Solid State Physics, and Electricity and Magnetism.

103, 104. Elementary Physics [4-3-3]

Taught both semesters.

A survey of classical and modern physics with discussions of their implications to society. Analysis of problems in mechanics, heat, sound, electromagnetism, and modern physics. Influence of physics on art, literature, and values. Satisfies distribution requirements in the field of science.

121, 122. Introduction to Engineering and Technology [2-2-0]

Co-requisite: Math 130 or equivalent.

An introduction to the methods of modeling, analysis, and design in the solution of simple problems from the major disciplines of engineering. A consideration of the impact of engineering artifacts on society. The application of the computer language BASIC and the use of library programs in other computer languages in the solution of engineering models.

201-202. General Physics [4-3-3]

Prerequisite: Mathematics 140 (may be co-requisite with permission of the instructor. Taught both semesters.

A presentation of the major concepts of physics from a contemporary point of view, using vector algebra and calculus. For students in the physical and life sciences, mathematics, or engineering. Topics covered include mechanics, heat, sound, electromagnetism, and optics.

299. Independent Study in Physics, I [Maximum credit: 3 hours]

Prerequisites: Enrollment in a college science course and the approval of the department. An opportunity for reading and research on topics in physics under the direction of a faculty advisor.

301. Classical Mechanics I. Statics and Dynamics [4-3-3]

Prerequisite: Mathematics 240. Physics 201-202 is desirable, but not mandatory. Taught fall semester.

A vector space approach to the study of classical mechanics in the Newtonian, Lagrangian, and Hamiltonian formulations. Extensive applications to problems in biophysics, space science, engineering, and transportation. Laboratory emphasis on the computer solution of these problems.

302. Classical Mechanics II: Mechanics of Solids [4-3-3]

Prerequisite: Mathematics 240. Mathematics 250 and Physics 201 are desirable, but can be waived with consent of instructor. Taught spring semester.

The continuum mechanics and thermodynamics of elastic solids presented in terms of vectors, tensors, and linear transformations. Applications in biophysics and engineering.

Laboratory emphasizes experimental stress analysis (strain gages, photoelasticity, Moire fringes) and computer solutions.

304. Electromagnetism [4-3-3]

Prerequisite: Mathematics 240. Mathematics 250 and Physics 201-202 are desirable but can be waived with consent of instructor.

The electrostatics and electrodynamics of lumped and continuous systems. Electrostatics, magnetostatics, solutions of Maxwell's equations, AC circuits, relativistic electrodynamics, reflection and refraction. Laboratory stresses computer solutions and experimental analyses of electromagnetic phenomena.

311. Introduction to Electric Circuits and Electronics [3-3-0]

Prerequisite: Physics 202.

A study of the basic experimental laws of electrical circuits, Ohm's Law and Kirchhoff's Laws of voltage and current. Analysis techniques for DC circuits. Properties of the basic circuit elements, resistors, inductors, capacitors. AC circuits, sinusoidal AC circuits, and their solution by phasor methods. Introduction to the operational amplifier.

321. Transportation Technology [3-3-0]

Prerequisites: Math 125, Computer Science 220.

This course will provide an introduction to the technological aspects of transportation and logistics. It begins with a survey of various modes of transporting material, emphasizing new and developing methods. It will discuss in detail the physical characteristics - load, energy and power requirements, aerodynamic effects, propulsion efficiency, packaging - of various modes. Models of traffic movement will be described and problems of control and distribution of traffic examined. Finally, generalized models, developing integrated transportation systems, will be introduced.

322. Exploration of the Universe, Astronomy [2-2-0 or 3-3-0 by contract]

Prerequisite: Junior standing or consent of instructor. Taught spring semester.

A survey of the history and methods of astronomy, including the solar system, planetary motion, stellar evolution, theories of

cosmology, and such recent developments as quasars, pulsars, and black holes. A 16 inch telescope, a radio telescope, and a planetarium are available.

351. Modern Physics I: Atomic Physics [3-3-0]

Prerequisite: Physics 201-202 or consent of instructor. Taught fall semester.

A survey of the developments in atomic physics. An introduction to quantum mechanics and its application to current technology such as health sciences and atomic and molecular chemistry.

352. Modern Physics II: Solid State Physics [3-3-0]

Prerequisite: Physics 201-202 or consent of instructor.

A survey of the developments in solid state physics: crystal structure, thermal, mechanical and electromagnetic properties of materials. Applications to semi-conductors, lasers and masers, superconductors, and material science.

362. Material Science [3-3-0]

Prerequisite: Physics 351.

The study of the microscopic and macroscopic characteristics of materials with an emphasis on the basic principles that describe material behavior in these two realms. The application of the basic principles in the understanding of the large-scale behavior of materials; the determination of the thermal, mechanical, and electrical properties of solids. Discussion of examples that illustrate the theory.

395. Topics in Physics

Prerequisite: Junior standing or consent of instructor. Taught both semesters.

Topics of special interest to both science and non-science majors in the areas of solar energy, technology assessment, science and questions of values, methods of teaching physical science, physics and photography, physics and art. Check the current list of courses each semester to determine when a course will be offered. Credits will vary.

402. Quantum Mechanics [3-3-0]

Prerequisite: Physics 201-202, Mathematics 240. Taught spring semester.

Review of the crucial ideas and experiments leading to the development of quantum theory. Axiomatic formulation of the theory with applications to simple systems.

499. Independent Study in Physics, II

Prerequisite: Junior standing and approval of the department.

Independent study of topics in physics under the direction of a faculty advisor.

Political Science and Governmental Administration

Associate Professors: Killam (Chairman),

Moore, Williams, Winter

Assistant Professor: Doane

Instructors: Greenough, Miller

The objectives of the Department of Political Science and Governmental Administration are reflected in the purposes of the two degree programs administered by the Department. Through the Bachelor of Arts program in Political Science, the Department assists students in developing their ability to maximize their personal goals within the political and social environment, enables students to identify and classify types of political behavior and to evaluate the consequences of that behavior for civilization, and encourages qualified students to pursue graduate study in related fields of study.

The Teacher Education Program is a special curriculum within the general Political Science Degree Program, and is designed to prepare students for the teaching of Political Science in the public schools.

Through the Bachelor of Science program in Governmental Administration, the Department offers a multidisciplinary approach to the study of governmental administration in its social, psychological, economic, political, and physical contexts, prepares students for careers in the public service in such special areas as public management, community planning, law enforcement, and corrections, equips students with analytical and quantitative skills necessary for careers in the observation and measurement of the community

environment, encourages students to identify and to appreciate values related to the formulation and implementation of public policy; and encourages qualified students to pursue graduate professional studies in public administration, urban planning, criminal justice administration, and law.

To earn a degree with a major in political science, students are required to take a minimum of thirty credit hours in Political Science, including the following courses: Political Science 101, 102, and either Political Science 491 or 499. The remaining courses should be selected in consultation with the student's advisor.

When there is sufficient enrollment demand, the Department has frequently offered courses to in-service students on and off campus both day and evening.

For a minor in Political Science, a minimum of eighteen credit hours is required, including Political Science 101 or 102.

The inter-disciplinary Bachelor of Science in Governmental Administration degree includes four professional specialties, one of which must be completed by the student who seeks the BSGA degree. The student may choose either Urban Management, Community Planning, Criminal Justice Administration, or Corrections. For further information on this degree program, see "Bachelor of Science in Governmental Administration."

B.A. in Political Science Sample Program

Course	Hours
Freshman Year	
English Composition	6
Mathematics or Philosophy	6
Political Science	6
Natural Science	8
Physical Education	4
	30
Sophomore Year	
Humanities or Foreign Language	6-12
Economics	6
Political Science	12
Sociology of Psychology	6
	30-36

Junior Year	
Political Science	12
Electives	20
	32
Senior Year	
Political Science	12
Electives	14-20
	26-32

**B.A. in Political Science
Teacher Education Program in
History and Social Sciences**

(Minor in Secondary Education)

Course	Hours
Freshman Year	
English Composition	6
Mathematics	6
Political Science 101, 102	6
Natural Science	8
Physical Education	4
	30
Sophomore Year	
Humanities	6
Economics 201, 202	6
Speech 201	3
Psychology 201	3
Political Science 221 or 451, 201, 321	9
History 201, 202	6
	33
Junior Year	
Education 300, 303	6
Geography 201 or 252 plus elective	6
Psychology 307 or 309, and 312	6
Political Science 359, 363 or 365, 357	9
General Elective	3
	30
Senior Year	
Education 401S, 414S, 403H, 404	15
Physical Education 321	3
Political Science electives	6
Sociology 200	3
General Electives	4
	31

In order to fulfill requirements of the Teacher Education Program in History and Social Sciences, requirements for the Teacher Education Program in Political Science and credit in History 101-02 (6 hrs.) and History electives (6 hrs.) must be completed.

**101. Understanding Public Affairs I:
Public Issues and Controversies [3-3-0]**

Taught both semesters.

An examination of major domestic and foreign issues, such as urban problems, the role of bureaucracy in contemporary American society, oil crises, detente, hunger and economic development. Emphasis is placed on the influence of ideologies on American views of public issues and controversies.

**102. Understanding Public Affairs II: The
American Political Process [3-3-0]**

Taught both semesters.

Examination of how issues are resolved within the American Political system. Consideration is given to American Political institutions, such as the Presidency, Congress, Judiciary, political parties, interest groups, state and local governments.

221. State and Local Government [3-3-0]

Taught spring semester.

A survey of the structure, functions, and issues of state and local governments in the United States, such as problems of distribution of power within the federal system. Includes an examination of revenue sharing, systems of power within and between state and local governments, and problems and programs of local governments.

302. Public Finance [3-3-0]

Prerequisite: Economics 201-202. Same as Economics 302. Taught spring semester. The nature and application of the fundamental principles which apply to the obtaining, managing, and disbursing of the funds necessary for the performance of governmental functions at the local, state, and federal levels. The American tax system is given detailed consideration.

311. Comparative Politics [3-3-0]

Taught fall semester.

A comparative study of the governmental processes of selected nations in terms of their ideologies, institutions, political organizations, and policies such as social welfare, crime control, urbanization, economic management, and foreign affairs.

321. International Relations [3-3-0]

Taught spring semester.

Fundamental elements of international politics and an examination of the structure of the international system. Includes the role of the state as a political actor, their interrelationships with one another and the major problems of the contemporary period.

**331. Introduction to Community Planning
[3-3-0]**

Taught both semesters.

Examines the general nature of community planning and its development in the United States, including a survey of the problems with which planning seeks to cope.

334. Theory of Planning [2-2-0]

Prerequisite: Political Science 331. Taught spring semester, alternate years.

An examination of theories of the planning process - both technical and political - and the policy implications of alternate theories. Substantial use is made of case studies in order to reveal the practical uses of the theories.

335. Site Planning and Design I [3-3-0]

Taught fall semester.

An accelerated introduction to some major topics and skills of site planning and plan presentation. Includes isometric and perspective drawing, introduction to topography and grading, principles and practice in esthetic design of sites.

336. Site Planning and Design II [3-3-0]

Prerequisite: Political Science 335. Taught spring semester, alternate years.

Exercises in and analysis of large scale site planning. For students in the planning programs the major projects will concern apart-

ment developments and residential subdivisions. For those in the program in Parks, Open Space, Recreation and Natural Resource Management the major project will be a park design. Other students may choose either of the two project groupings.

**337. Techniques of Community Planning
[4-3-1]**

Prerequisite: Political Science 331 or consent of instructor. Taught spring semester.

Thorough survey of several planning techniques for the preparation of such preliminary studies as population analysis and land studies, and for the planning and programming of land use and public facilities. Exercises in the use of sources and techniques. Computer applications in planning.

**342. Crime Control and Community
Relations [3-3-0]**

Prerequisite: Political Science 101 or 102 or consent of instructor. Taught fall semester.

Examines the factors which bear on community support of public agencies responsible for crime control and the correction of offenders. The roles of the police administrator, prosecutor, judge and corrections administrator are treated as well as the effects of civil rights and antiwar movements and instances of civil disobedience.

**346. Politics and Criminal Justice
Administration [3-3-0]**

Prerequisite: Political Science 101 and 102 or consent of instructor. Taught spring semester.

Analysis of the major issues related to the criminal justice process: law enforcement versus order maintenance; local control of law enforcement; limits of the criminal sanction; control of organized crime; the legitimacy of public protest; administrative efficiency versus the rule of law; selective enforcement and prosecution; plea bargaining; the symbolic nature of the criminal trial; capital punishment; community-based corrections; and employment of ex-offenders.

**352. Quantitative Techniques in Political
Analysis [3-3-0]**

Taught fall semester.

Fundamentals of statistical techniques used in the analysis of political, administrative and community behavior. Includes an examination of descriptive and inferential statistics, hypotheses testing and correlation. Introduction to the construction, delivery, and analysis of surveys.

357. Theories of Democracy [3-3-0]

Prerequisite: Consent of instructor.

A survey of various contemporary positions concerning the nature of democratic government. Particular emphasis will be placed on revisions of the democratic ideal and challenges to those revisions. Concepts to be considered include elite competition, oligarchy, polyarchal democracy, pluralism, apathy, participation, party systems, political stability, and the effect of technological change on representative institutions.

358. Political Thought and Criticism [3-3-0]

Taught fall semester.

A critical analysis of the central and pervasive issues of normative political theory with the view of clarifying such concepts as natural law, the state, freedom, social contract, equality, and the nature of history in the political philosophy of representative thinkers of the pre-contemporary period.

359. Recent Political Ideas and Values [3-3-0]

Taught spring semester.

An analysis of such contemporary ideologies as Capitalism, Liberalism, Democratic Socialism, Marxism, Fascism, Conservatism, and Nationalism in relation to their significance for contemporary political movements and policies.

361. Public Policy Analysis [3-3-0]

Taught both semesters.

An examination of various conceptual frameworks within which policy analysis can be located, the selection and measurement of relevant variables in policy analysis, a treatment of research designs appropriate for organizing research problems into a coherent set of testable propositions, and a review and application of survey research techniques.

363. Law and Public Policy [3-3-0]

Taught spring semester.

A treatment of the relationship among law, legal research, and public policy analysis with focus on such policy areas as energy, environment, land use and housing, education, and transportation.

365. Civil Liberties Policy [3-3-0]

Taught fall semester.

An examination of the emergence, development, and implementation of civil liberties in the United States in terms of constitutional interpretation and the political tensions of a competitive society.

371. Public Administration [3-3-0]

Introduction to the field of public sector management covering such topics as organizational behavior, politics and administration, personnel, budgeting, administrative ethics and responsibility, and contemporary issues. The course design juxtaposes the theory and practice of administration.

381. Public Personnel Administration [3-3-0]

An analysis of the present methods and theories of personnel administration including hiring, performance evaluation, promotion, discipline, motivation, compensation, and employee relations. Critical issues such as reverse discrimination, merit, equity, affirmative action, unions, collective bargaining and productivity are reviewed to assess their impact upon individuals, selected population groups and organizations.

391. Public Budgeting [3-3-0]

A critical study of the theories of budgeting. Particular emphasis will be directed toward the role of politics and program evaluation in resource allocation, value issues in tax policy, and contemporary issues in tax policy, and contemporary issues in the field.

395. Elementary Topics in Political Science [3-3-0]

Prerequisite: Junior standing or consent of instructor. Taught both semesters.

An examination of problems, issues, practices

or recent developments in Political Science and Governmental Administration. A maximum of nine credits may be counted toward a degree.

401. Public Management [3-3-0]

A study of modern management strategies and their applicability to the public sector. The course covers such topics as employee and client alienation, management stress, women in management, leadership and human relations theories, democratic management, management by objective, and organizations development.

406. Trial Court Administration [3-3-0]

Prerequisite: Political Science 100 or consent of instructor. Taught spring semester.

A consideration of judicial responsibility for management and the duties of the trained court executive, including budget execution, management of physical court facilities, information service, intergovernmental relations.

414. Case Studies and Decision-Making Simulations in Organizations [3-3-0]

Prerequisite: Junior or Senior standing.

Students will analyze cases describing complex problems of human and group interactions in organizations. Students will interact for decision-making in two computer simulated games and Sim-Soc (a simulated society). Students will receive reactions of the effects of their decisions. The only grades given will be Pass/Fail.

440. Planning Law and Administration [3-3-0]

Prerequisite: Political Science 331 or consent of instructor. Taught fall semester.

Investigation of the range of legal tools for land use planning and of the various political and administrative levels of planning. Includes a brief consideration of types of planning administration. Special attention is given to zoning as a land use control.

442. Planning of Open Space and Recreation Areas [3-3-0]

Prerequisite: Physical Education 190, or Bio-

logy 306, or Political Science 331, or consent of instructor. Taught fall semester, alternate years.

Principles of planning for open space and recreation areas. The course examines the principles employed in serving suburban and rural populations and those emerging principles proposed for serving inner city populations. It includes the identification of goals, needs and resources; the standards of space and location design; and the laws and financing methods available for plan implementation. Attention is given also to the range of public administrative agencies responsible for recreation area planning. The course concludes with some discussion of site design.

451. Urban Government and Politics [3-3-0]

Taught fall semester.

Examination of modern urban governments, including urban reform movements, community control, regionalism, city-suburban conflicts, super-cities, major urban problems, and the future of urban areas.

461. The Politics of Urban Planning [3-3-0]

Taught spring semester.

The emergence of urban planning, its theoretical base; analysis of the planning process as a part of the urban political milieu; the range and form of urban planning, including pollution control, new towns, comprehensive planning and advocacy planning, and the problems and potential of planning in democratic political systems.

468. Criminal Justice Planning [3-3-0]

Prerequisite: Political Science 346 or consent of instructor.

Analysis of the impact of federal aid to state and local criminal justice agencies and the responses of the American states and localities to this aid. Focus is on the systems approach to planning in accordance with state and federal procedures and guidelines. Program evaluation is dealt with.

490. Senior Seminar in Political Science [3-3-0]

Prerequisite: Senior standing, Departmental Major. Taught each spring semester.

A seminar course in which each student is expected to master research skills, present a formal paper, and participate in the discussion and analysis of presentations by other members of the seminar.

491. Practicum in Governmental Administration [3-3-0]

Prerequisite: Senior standing or consent of instructor. Taught both semesters.

Part-time internship with a governmental agency in law enforcement, corrections, planning, or general administration. Periodic conferences, written evaluations, and research project. A maximum of six credits may be counted toward a degree.

495. Advanced Topics in Political Science [3-3-0]

Prerequisite: Senior standing or consent of instructor. Taught both semesters.

An examination at an advanced level of problems, issues, practices or recent developments in Political Science and Governmental Administration. A maximum of nine credits may be counted toward a degree.

499. Independent Studies in Political Science [3-3-0]

Prerequisite: Senior standing or consent of instructor. Taught both semesters.

Individual study on an approved project with discussion and critique on methods of research. A formal paper is required.

Psychology

Professors: Bauer, Spuires, Windsor
Associate Professors: Doerries (Chairman),
Dooley, Herrmann, Hoiberg, Lopater
Wildblood
Assistant Professors: Slocumb, Tseng
Instructor: Bogart

The aims of the psychology program are to enable students to learn facts, principles, theories, and methods in psychology and how to apply this knowledge usefully and responsibly. The department is organized so that the

major student may survey the entire field of psychology and learn to use the tools of psychological research.

Some students majoring in psychology will go on to graduate study; others will find opportunities to work in other areas such as personnel, as case workers in welfare departments, as probation officers, as teachers in the areas of early childhood education, or in special education.

To satisfy the general requirements for the B.A. and B.S. degrees in Psychology, all majors are required to complete at least thirty-six credit hours in psychology above the 200-level. (Psychology 201 is the prerequisite for all psychology courses except Psychology 203.) Included among these hours, the student is required to complete the following:

Psychology 300 *Statistical Applications in Social Science Research* (formerly 321) 3 hrs

Psychology 301-302 *Experimental Psychology* 8 hrs

Psychology 304 *Social Psychology* 3 hrs
Psychology 305 *Psychology of Learning* 3 hrs

Psychology 401 *History of Psychology* 3 hrs

Psychology 410 *Introduction to Tests and Measurement* 4 hrs

Psychology 490 *Senior Seminar* 3 hrs

Psychology majors will be required to have completed Psychology 300, 301, and 302 within their first ninety hours of course work.

Special requirements for the B.S. degree in Psychology include one additional semester course in a laboratory science of the student's choice beyond the requirements for the B.S. degree in the section of Distribution Requirements. (Psychology 404, *Physiological Psychology*, will fulfill this special requirement.)

A minor in Psychology requires eighteen hours above the 200-level, including at least one 400-level course and one Senior Seminar. Psychology 300 is highly recommended.

Writing is a recommended elective for

psychology majors.

Options for Psychology Majors

1. Graduate School Concentration

Students planning to attend graduate school should have the broadest possible preparation. To that end, in addition to the courses required of all majors, those students who choose this option will be required to select additional courses from the following groups.

(Select at least one course from each of the following groups).

1. Psychology 303 *Industrial and Organizational Psychology* Psychology 313 *Human Relations in Organizations* Psychology 314 *Introduction to Personality*

Psychology 403 *Abnormal Psychology*
Psychology 440 *Group Processes*

2. Psychology 404 *Physiological Psychology* Psychology 405 *Psychology of Motivation* Psychology 406 *Psychology of Sensation and Perception*

*3. Psychology 307 *Developmental Psychology* Psychology 311 *Psychology of Early Childhood* Psychology 308 *Child Psychology* Psychology 309 *Psychology of Adolescence and Young Adulthood* Psychology 340 *Psychology of Adulthood and Aging*

*It is recommended that the student take either Psychology 307 or a two-course sequence, choosing one from 311, 308 and one from 309, 340.

2. Psychological Technician

With the increased emphasis on para-

professional training in the field of mental health, the Psychology Department has instituted a concentration for students interested in becoming psychological technicians. In addition to the requirements for the major, the core courses required for the concentration are:

Psychology 316 *Principles of Interviewing*
Psychology 440 *Group Processes*
Psychology 491 *Field Placement*

Recommended electives to support this concentration are:

Psychology 303 *Industrial and Organizational Psychology*
Sociology 220 *Social Problems*
Sociology 225 *Minorities in Society*
Sociology 321 *Sociology of Crime*
Sociology 324 *Sociology of Juvenile Delinquency*

It is also recommended that students in the psychological technician concentration choose Spanish as their language requirement.

For those students from other disciplines who are interested in choosing this concentration for their minor, the required courses in psychology are:

Psychology 304 *Social Psychology*
Psychology 316 *Principles of Interviewing*
Psychology 410 *Introduction to Tests and Measurement*
Psychology 440 *Group Processes*
Psychology 490 *Senior Seminar*
Psychology 491 *Field Placement*

3. Organizational Psychology Concentration

This concentration is designed for students

who desire to pursue interests in psychology as applied to organizations, agencies, and businesses in the areas of management, administration, and personnel.

For the psychology major or those from other disciplines who wish to have a double major, the courses required for this concentration, in addition to the requirements for the major, are:

Psychology 303 *Organizational Psychology*
 Psychology 313 *Human Relations in Organizations*
 Psychology 333 *Personnel Psychology*
 Psychology 413 *Job Satisfaction and Work Motivation*
 Psychology 491 *Field Placement*

Business 324 *Administrative Theory and Practice*

**Sociology 200 *Introduction to Sociology*

**Sociology 210 *Social Organization*

Pol. Sci. 381 *Public Personnel Administration*

Comp. S. 220 *Computer Structure and Programming*

Recommended electives to support this concentration are:

Business 412 *Personnel Management*
 Business 452 *Market Research*
 Business 454 *Consumer Behavior*
 Sociology 332 *Industrial Sociology*
 Sociology 404 *Community Organization*
 Sociology 461 *Program Evaluation*
 Pol. Sci. 371 *Public Administration*
 Pol. Sci. 401 *Public Management*

**Indicates that the course also satisfies distribution requirement.

For those students from other disciplines who are interested in choosing this concentration for their minor, the required courses in psychology are:

Psychology 303 *Organizational Psychology*
 Psychology 304 *Social Psychology*
 Psychology 333 *Personnel Psychology*
 Psychology 490 *Senior Seminar*

The remaining 6 hours in psychology will be selected from the following group of courses. At least one of these must be a 400-level course.

Psychology 313 *Human Relations in Organizations*

Psychology 316 *Principles of Interviewing*

Psychology 410 *Tests and Measurement*

Psychology 413 *Job Satisfaction and Work Motivation*

Recommended electives include all of the remaining courses required for the major in this concentration as well as the recommended electives for the major.

4. Social Welfare Option

Psychology majors who elect to earn certification in Social Work should refer to the description of the program by the Sociology Department. The student must coordinate his or her program with the Social Work advisor in that department as well as with the major advisor.

It should be pointed out that, with the increasing demands for certification in Social Work, a combination of a Psychology major and Social Work certification is an extremely rigorous and demanding program. Careful coordination with both advisors must be exercised.

5. Corrections Option

A major who wishes to develop a specialty in Corrections (Criminal Justice) should coordinate his/her program with the Corrections program director in the Political Science department as well as with the major advisor. Refer to the description of the program in the Political Science department listings.

Sample Program for Psychology Majors [B.A.]

Course	Hours
Freshman Year	
English 101-102 or 103-104	6
Foreign Language	8
Lab. Science (Bio. or Chem. recommended)	8
Math	4-6
Physical Education	4
	30-32

Sophomore Year

Foreign Language	6
Humanities	6
Psychology 201-202	6
Psychology 300	3
Social Science (Sociology recommended)	6
Electives	3
	30

Junior Year

Psychology 301-302	8
Psychology electives	3
Electives	18-20
Psychology 305	3
	32-34

Senior Year

Psychology 490	6
Psychology Electives	6
Electives	17
Psychology 401	3
	30

Sample Program for Psychology Majors [B.S.]

Course	Hours
Freshman Year	
English 101-102	6
Foreign Language	8
Laboratory Science (Biology or Chemistry recommended)	8-10
Math	4-6
Physical Education	4
	30-34

Sophomore Year

Foreign Language	6
Humanities	6
Psychology 201-202	6
Psychology 300	3
Social Science (Sociology recommended)	6
Electives	3
	30

Junior Year

Psychology 301-302	8
Psychology Electives	3
Electives	10-12
Laboratory Science	8
Psychology 305	3
	32-34

Senior Year

Psychology 490, 490	6
Psychology Electives	6
Electives	12
Fifth Semester of Lab Science	4
Psychology 401	3
	31

201. Principles of Psychology [3-3-0]

Basic principles of behavior according to the categories of general psychology: motivation, learning, maturation, emotion, thinking, perception, intelligence, and the organization of personality. This course is prerequisite to all courses in Psychology except Psychology 203.

202. Contemporary Psychology [3-3-0]

Prerequisite: Psychology 201.
 A continuation of the introduction to psychology through the study of original literature in various fields.

203. Psychology of Adjustment [3-3-0]

An examination of research and literature concerning the interaction between the individual and persons and events in his or her bio-social environments. The problems of daily living will be emphasized.

295. Topics in Contemporary Psychology

Prerequisite: Psychology 201.
 This course will offer topics of special interest in areas of contemporary psychology. These topics may be suggested by students or by faculty. Only one 295 may be offered toward a degree in Psychology.

300. Statistical Applications in Social Science Research [3-3-2]

(formerly 321)
 Prerequisite: A minimum of three hours of college mathematics and Psychology 201.
 Descriptive and inferential statistics, including a brief introduction to probability theory, parametric tests, correlation, analysis of variance, and the use of distribution free measures. The number of laboratory hours will vary.

301-302. Experimental Psychology [4-3-4]

Prerequisite: Psychology 201 and 300.

A comprehensive study of the scientific method and different approaches to behavioral research. Collateral readings and experiments, emphasizing experimental analysis of behavior principles, will be assigned. Each student is responsible for designing and conducting research under the direction of the instructor. Use of standard psychological methods of reporting scientific research will be emphasized.

303. Industrial and Organizational Psychology [3-3-0]

Prerequisite: Psychology 201.

An examination of the dynamics of organizational life from a psychological perspective. Motivation, leadership, communication, intra- and inter-group functioning, power relationships, and the more traditional functions of recruitment, selection, training, placement, evaluation, safety, and human engineering are studied.

304. Social Psychology [3-3-0]

Prerequisite: Psychology 201.

A study of the individual in group situations and the interaction of the individual and his environment in a great variety of circumstances. Emphasis on psychology of prejudice, attitudes, and groups.

305. Psychology of Learning [3-3-0]

Prerequisite: Psychology 201.

A study of the principles of human and animal learning, retention, and problem-solving with consideration also given to methods of investigation and recent theories of learning.

307. Developmental Psychology [3-3-0]

Prerequisite: Psychology 201

A study of data and theory concerning the development of the individual through the life span, including mental, physical, and emotional processes. Students may take only two of the following five courses for credit: 307, 308, 309, 311, and 340.

308. Child Psychology [3-3-0]

Prerequisite: Psychology 201

The biological, social, and emotional factors influencing the normal growth and development of the child from birth to adolescence. Students may take only two of the following five courses for credit: 307, 308, 309, 311, and 340.

309. Psychology of Adolescence and Early Adulthood [3-3-0]

Prerequisite: Psychology 201

This course examines the psycho/socio/biological development of humans from preadolescence through early adulthood. Theories, research, and problems in the developmental process are studied. Students may take only two of the following five courses for credit: 307, 308, 309, 311, and 340.

311. Psychology of Early Childhood [3-3-0]

Prerequisite: Psychology 201.

General principles of early childhood development, factors influencing pre-natal development of motor abilities, emotion, intelligence, and social interaction, covers changes in behavior that occur between conception and entrance to school. Students may take only two of the following five courses for credit: 307, 308, 309, 311, and 340.

312. Educational Psychology [3-3-0]

Prerequisite: Psychology 201. Same as Education 201.

The application of psychological facts, principles, and methods to learning in the classroom, including skill development in evaluation of student performance as an aid to learning and teaching.

313. Human Relations in Organizations [3-3-0]

Prerequisite: Psychology 201

An experiential approach to skill training in leadership, decision-making, communication, problem-solving, conflict-resolution, creativity, and other issues faced by task-oriented groups and organizations. May only be taken as Pass/Fail.

314. Psychology of Personality [3-3-0]

Prerequisite: Psychology 201.

An examination of historical and contemporary psychological theories relating to the development, functioning, and modification of personality. A comparative approach is used, focusing upon the different perspectives of Psychoanalysis, Behaviorism, and Humanistic Psychology.

316. Principles of Interviewing [3-3-0]

Prerequisite: Psychology 201, Junior standing or permission of instructor.

This course provides the student with the theory and skills necessary to observe, record, summarize, and communicate information obtained in the interview process. This process will be studied as it relates to gathering information, persuasion and salesmanship, employment and appraisal, and counseling situations. Communication theory and the theoretical concepts underlying the interview process, including reliability and validity, are emphasized. Students will be required to conduct interviews both in role-play and actual interview situations. Behavioral techniques, support systems, and environmental changes are presented.

333. Personnel Psychology [3-3-0]

Prerequisite: Psychology 201.

The focus of this course, which has a heavily "applied accent," is on the application of psychological principles and methods on the assessment of personnel techniques and programs. Specifically, the objectives of this course are to enable students to: 1) become aware of personnel problems and be able to identify the need for personnel programs, 2) develop skills in implementing and evaluating programs of personnel selection/placement, performance appraisal, and training, and 3) analyze the impact of social movements on personnel programs (i.e., the issues of sex, age, and racial discrimination will be examined.)

340. Psychology of Adulthood and Aging [3-3-0]

Prerequisite: Psychology 201 and permission of instructor.

A treatment of the biological, psychological, and social characteristics of adult develop-

ment with emphasis on the dynamic nature of self-examination and evaluation during this life stage. Aging is discussed as both a consequence of adulthood and a separate life-span stage in which biological limitations adversely prejudice psycho-social potential.

395. Elementary Topics [3-3-0]

Prerequisite: Psychology 201

This course will present from time to time topics of special interest to the students and faculty of the department. Students who are interested in having a topics course in a certain area should make their suggestion to the Department Chairman. Students should also check the current list of courses taught to determine what topics will be offered in any given semester. Only one Elementary topics course may be offered towards a degree in psychology.

400. Advanced General Psychology [3-3-0]

Prerequisite: Psychology 201, completion of all required 300-level courses, and senior standing.

A detailed presentation of the major areas of psychology emphasizing principles and theories. Critical issues are identified and discussed. The purpose of the course is to provide senior majors with a systematic review of the discipline prior to entering graduate school or taking qualifying examinations. The course content is primarily determined in accordance with professional criteria at the national level and thus provides the student with a standard against which he may judge his performance and knowledge.

401. History of Psychology [3-3-0]

Prerequisite: Psychology 201 and completion of required 300-level courses. A survey from Aristotle to the present with special emphasis on the nineteenth and twentieth centuries.

403. Abnormal Psychology [3-3-0]

Prerequisite: Psychology 201 and 307, or its equivalent, or consent of instructor. A survey of behavior pathology emphasizing the neuroses and the functional psychoses and their relationship to current conceptions of normal personality functioning.

404. *Physiological Psychology* [4-3-4]

Prerequisite: Psychology 201 and completion of all required 300-level courses or consent of instructor.

A critical analysis of the physiological mechanisms controlling behavior. Lecture topics include neuroanatomy, the biochemical bases of behavior, homeostatic control mechanisms, emotion, and the neurophysiology of learning. The laboratory work centers around the techniques of brain stimulation, ablation, and electrical recording.

405. *Psychology of Motivation* [3-3-0]

Prerequisite: Psychology 201 and completion of all required 300-level courses or consent of instructor.

A study of the energizing factors in behavior, including such concepts as instincts, drives, homeostatically regulated systems, the emotions, stress, anxiety, and aggression. Both theoretical and experimental arguments are considered.

406. *Psychology of Sensation and Perception* [3-3-0]

Prerequisite: Psychology 201 and completion of all required 300-level courses or consent of instructor.

Sensory and perceptual processes presented in the framework of both theoretical and experimental issues.

407, 408. *Psychology of the Exceptional Child* [3-3-0] [3-3-0]

Prerequisite: Psychology 201 and 307 (or its equivalent).

The psychological development of children with physical, emotional, educational, social and intellectual deviation, and communication problems. During the first semester, emphasis will be on psychological aspects of giftedness, physical disability, and mental retardation. During the second semester, learning disabilities and the problem of the emotionally disturbed child will be stressed. The laboratory section is optional.

407A, 408A. *Psychology of the Exceptional Child*

The laboratory experience enables the student to gain practical knowledge in the real-

life experience, either in a school, home, or recreational setting. Placement will be made in community agencies working with exceptional children. This laboratory section is optional.

410. *Introduction to Tests and Measurements* [4-3-3]

Prerequisite: Psychology 201 and 300 or consent of the instructor.

Psychometric principles of test construction, development, validation, and utilization are examined. Practice in test administration, interpretation and evaluation are part of the classroom and laboratory experience. Current psychological instruments are studied in depth.

413. *Job Satisfaction and Work Motivation* [3-3-0]

Prerequisite: Psychology 201 and 303 or consent of the instructor.

An examination of contemporary theories of job motivation and research applications to worker satisfaction and work behavior (such as productivity, turnover, and absenteeism), including the relationship of motivational processes to other organizational variables.

420. *Human Sexuality* [3-3-0]

Prerequisite: Psychology 201 or consent of instructor.

Biological, psychological, and social aspects of human sexual behavior throughout the life span.

440. *Group Processes* [4-2-4]

Prerequisite: Psychology 201 and consent of instructor. Psychology 304 and/or 313 are recommended.

The course is based on the "Laboratory Education" model developed by Kurt Lewin and others. This model enables participants to learn in three modes: emotional, rational, and behavioral. Group theory and research will be presented and discussed in the didactic portion of the class. The central objectives of the laboratory will be an understanding and application of group theory through participation in an actual group experience. This group experience relies heavily upon the involvement of each member in the learning process.

A major purpose of this class is to allow the participant to understand how he/she affects and is affected by others; therefore, the primary content of the course is the ideas, concerns, and feelings of each member. May only be taken as Pass/Fail.

490. *Senior Seminar* [3-3-0]

Prerequisite: Psychology 201 and completion of all required 300-level courses or consent of the instructor.

Topical seminars to cover a variety of areas. These seminars are limited to senior students. One seminar is required for a minor, two for a major.

491. *Practicum in Applied Psychology* [3-1-8]

Prerequisite: Psychology 201, 313, or 440 and consent of the instructor.

Part-time placement in an organization or agency appropriate to the needs and educational and professional goals of the individual student. There will be periodic conferences and a written evaluation required.

495. *Advanced Topics* [3-3-0]

Prerequisite: Psychology 201, completion of all required 300-level courses or consent of the instructor.

This course will present from time to time advanced topics of special interest to the students and faculty of the department. Interdepartmental topics courses will be offered under this course number. Students should suggest possible topics to the Department Chairman and should check the current list of courses offered to determine what topics will be offered in any given semester. This course does not count as one of the required 400-level courses, and a student may not count for credit more than two Advanced Topics courses toward graduation in psychology.

499. *Research*

Prerequisite: Psychology 201 and senior psychology major standing. Independent study which may consist of bibliographic or experimental research.

Sociology and Social Work

Associate Professors: C. Chang, Durel, Healey (Chairman), Kernodle.

Assistant Professors: Christ, Fernald, Pellett.

The Department of Sociology and Social Work provides an educational program which integrates a theoretical orientation and its application with various social issues and community problems. Sociology students are encouraged to develop a broad background in the social and behavioral sciences in a liberal education setting. The Department seeks to teach students to examine and analyze society and social institutions from a sociological perspective; to prepare students for effective community participation as citizens and/or professionals; to enable students to specialize by providing professional options; and to provide a background for those who wish further training at the graduate level.

Programs

The Department of Sociology and Social Work offers a curriculum leading to a B.A. in sociology and/or a Certificate Concentration in Social Work.

The Sociology Major

The major in sociology requires thirty-three hours in sociology including twenty-four hours above the 200 level with at least 6 hours at the 400 level. Included in these courses must be: Sociology 200, *Introduction to Sociology*; Sociology 310, *Social Theory*; Sociology 391-392, *Methods and Tools of Social Research*; and either Sociology 490, *Senior Seminar* Social Work 490, *Senior Seminar* may be substituted by the students in the (Social Work Concentration) or Sociology 499, *Independent Research or Research Internship*.

The Sociology Minor

The minor in Sociology requires eighteen hours in Sociology (including twelve hours above the 200 level with 3 hours at the 400 level). Included in these courses must be: Sociology 200, *Introduction to Sociology*; Sociology 310, *Social Theory*; and some proficiency with research methods or statis-

tics. A student seeking a minor in Sociology must complete a form provided by the Department of Sociology and Social Work.

The Social Work Concentration

The Concentration in Social Work requires the following courses: Sociology/Social Work 300, *Introduction to Social Work*; Sociology/Social Work 367, *The Social Welfare Institution*; Sociology/Social Work 391-392, *Methods and Tools of Social Research*; Social Work 399-400, *Social Work Practice I-II*; Social Work 401-402, *Field Placement I-II*; Social work 405-406, *Human Behavior in the Social Environment*; Social Work 490, *Senior Seminar* and one of the following two: Sociology/Social Work 369, *Family and Child Welfare Policies and Services* or Political Science 363, *Law and Public Policy*. (Other courses emphasizing Social Policy may be substituted with the approval of the Director of Social Work.)

A student majoring in sociology or in another discipline can receive the Certificate in Social Work by meeting the certificate requirements. Students interested in fulfilling the requirements for the Social Work Concentration must submit an application to the Director of Social Work after the completion of Social Work 300, *Introduction to Social Work*.

Other Concentrations

The Department of Sociology and Social Work also offers two concentrations of courses for students majoring or minoring in Sociology: 1) Research and Program Evaluation; 2) Criminology. Upon completion of the requirements for a concentration, the proper notation will be made on the student's transcript.

The Research and Program Evaluation Concentration is designed for students interested in a career as a research assistant in social research and/or program evaluation in areas of health, mental health, social welfare, corrections and social planning. The requirements for this concentration include: Sociology 361, *Population and Society*; Sociology 391-392, *Methods and Tools of Social Research*; Sociology 461, *Social Indicators and*



Evaluation Research, Sociology 499, *Independent Research or Research Internship*, one of the following two courses: Sociology 331, *Urban Sociology* or Sociology/Social work 404, *Community Organization*, and one of the following two courses: Political Science 391, *Governmental Budgeting* or Economics 351, *Urban Development Economics*. Additional courses in quantitative analysis and Computer Science are recommended.

The Criminology Concentration is designed for students interested in the general area of criminology, primarily from a general and theoretical perspective. The requirements for this concentration include: Sociology 321, *Sociology of Crime*; Sociology 324, *Juvenile Delinquency*; Sociology 411, *Sociology of Corrections*, one of the following three courses: Sociology 319, *Deviant Behavior*; Sociology 491, *Practicum in Sociology*, or Sociology 499, *Independent Research or Research Internship* and one of the following two courses: Political Science 342, *Crime Control and Community Relations* or Political Science 346, *Politics of Criminal Justice Administration*. Additional courses in Political Science are recommended.

Sample Program for Sociology Major

Course	Hours
Freshman Year	
English 101-102	6

College Distribution Requirements (e.g., Natural Science, Social Science, Physical Education, Foreign Language)	18
Sociology 200	3
Electives	6
	33

Sophomore Year	
College Distribution Requirements (e.g., Social Science, Humanities*, Mathematics*, Foreign Language)	18
Sociology Electives	9
Electives	6
	33

Junior Year	
Sociology 310	3
Sociology 391-392	6
Social Science Electives	9
Sociology Electives	6
Other Electives	6
	30

Senior Year	
Sociology 490	3
Sociology Electives	9
Social Science Electives	9
Other Electives	9
	30

*Philosophy 201-202, Mathematics 125 are recommended

Sample Program for Social Work Concentration

Course	Hours
Freshman Year	
English 101-102	6
Biology 101-102	8
Psychology 201-202	6
Physical Education Distribution	4
Electives	9
	33
Sophomore Year	
Sociology 200 plus another 200 level course	6
Humanities Distribution	6
Mathematics Distribution	6
Sociology/Social work 300	2
Electives	10
	30

Junior Year	
Sociology/Social Work 367	3
Sociology/Social Work 391-392	6
Psychology 307	3
Sociology 304	3
Political Science 363 or Sociology/Social Work 369	3
Social Work 399	3
Electives	12
	33

Senior Year	
Social Work 400	3
Social work 401-402	8
Social Work 405-406	4
Social Work 490	3
Electives	12
	30

Sociology

200. *Introduction to Sociology* [3-3-0]

Taught both semesters.

An introduction to the study of human society, including concepts of culture, socialization, role and status, stratification, social organization, institutions, and social change.

210. *Social Organization* [3-3-0]

Prerequisite: Sociology 200. Taught spring semester.

An analysis of social organization at the various levels of group interaction, including small groups, social institutions, and bureaucracies. Course will include fundamental concepts, theories, and research as appropriate.

220. *Social Problems* [3-3-0]

Prerequisite: Sociology 200. Taught both semesters.

A survey of such social problems as race, crime, urban conditions, poverty, and social consequences of rapid technological change. The analytical perspective is sociological, stressing concepts and theories such as social pathology, value conflict, social disorganization, and deviant behavior.

225. *Minorities in Society* [3-3-0]

Prerequisite: Sociology 200. Taught spring

semester.

A comprehensive analysis of a variety of minority groups including American Indians, women, Spanish-speaking and Asian minorities, European immigrants, and blacks. The course will concentrate on the problems of prejudice and discrimination, integration and conflict, and trends of change.

303. Marriage and the Family [3-3-0]

Prerequisite: Sociology 200. Taught fall semester.

Study of the American Family structure in comparison with other selected cultures. Interrelation of the family institution to other parts of the social structure.

304. Socialization and Society [3-3-0]

Prerequisite: Sociology 200. Taught spring semester.

Emphasis will be on the generic process by which individuals become members of society. Consideration of the impact of family, sex, race, socio-economic class on socialization and personality. Will include cross-cultural comparisons.

305. The Sociology of Aging

Prerequisite: Sociology 200.

Aging as a social process and its relation to biological and psychological processes. Analysis of role loss, changing roles as a result of aging. Problems associated with the social aspects of aging. Social programs for the aging.

307. Sociology of Education [3-3-0]

Prerequisite: Sociology 200. Taught in alternate years.

A sociological analysis of education and educational systems in America. Major topics of study include an analysis of the purposes and functions of educational programs, the differential impact of social class, family, race, and residence on educational opportunity, the school as a bureaucratic organization, educational reform, and contemporary problems of higher education.

310. Social Theory [3-3-0]

Prerequisite or Co-requisite: Nine hours of sociology and junior or senior standing.

An examination of the development of sociological thought with a special emphasis on major classical and contemporary sociological theorists. Includes an analysis of the basic philosophical and sociological assumptions concerning man and society, their political and social implications, and the historical setting in which the sociologist is writing.

315. Medical Sociology

Prerequisite: Sociology 200.

The analysis of the socio-cultural context of disease and the health-care system. The course focuses upon the social and cultural aspects of disease etiology, illness behaviors, the formal and informal organization of the health professions and the system of health care delivery.

319. Deviant Behavior [3-3-0]

Prerequisite: Sociology 200. Taught fall semester.

An analysis of the social processes which result in defining and reacting to behavior as deviant. Emphasis is on the cultural context of deviance, deviant subculture, self-concepts of deviants, the development of deviant behavior patterns, and the effects of societal responses to deviance. Various forms of deviance will be analyzed, including sexual deviance, mental illness, alcoholism and drug abuse, crime, and juvenile delinquency.

321. Sociology of Crime [3-3-0]

Prerequisite: Sociology 200. Taught fall semester.

A sociological analysis of the nature and extent of crime as revealed by official statistics, victimization surveys, and self-reported crime. Emphasis will be on sociological theories of crime, characteristic patterns of crime; psychological, biological, and economic factors in criminal behavior; crime and social change; and the relationship between social policies and criminal behavior.

324. Sociology of Juvenile Delinquency [3-3-0]

Prerequisite: Sociology 200.

A sociological examination of juvenile delinquency with emphasis on the nature and

extent of juvenile delinquency, the historical development of the juvenile court, institutional and community corrections aimed at delinquents, and an assessment of social policies as they affect delinquents. A review of sociological theory and research on delinquency will emphasize family patterns, school systems, juvenile gangs, and broader social processes related to delinquency.

326. Black-White Relations [3-3-0]

Prerequisite: Sociology 200.

Institutional and demographic variations among black and white Americans examined in a context of ideological and structural change, consequences of racial prejudice and discrimination for black personality and social structure. Special attention will be devoted to the patterns of urbanization among black Americans.

331. Urban Sociology [3-3-0]

Prerequisite: Sociology 200. Taught fall semester.

An ecological and social analysis of the urban community. Topics include the classification of cities and urban sub-areas, urban life styles, and planned community change.

332. Industrial Sociology [3-3-0]

Prerequisite: Sociology 200.

A sociological study of industrialization with emphasis on industrial bureaucracy, major industrial work roles, the work group, and union-management relations.

335. Rural Society in Transition [3-3-0]

Prerequisite: Sociology 200.

Changing characteristics of rural society: norms, values, institutions affected by changing population, technology, and agricultural practices.

361. Population and Society [3-3-0]

A study of population history and current findings concerning social factors affecting fertility, mortality, and migration and the effects of population change upon social relationships. Method of measurement and basic techniques of analysis.

Soc./SW 369. Family and Child Welfare Policies and Services [3-3-0]

Prerequisite: Soc./SW 300.

Review and analysis of major policies, programs and services developed to assist or substitute for the family in meeting the needs and enhancing development of children in the United States. Focus is upon the unmet needs of children consequent to income insufficiency, discrimination, changing family structure, and inadequacy of human service delivery systems.

Soc./SW 391-392. Methods and Tools of Social Research [3-2-1] [3-2-1]

Prerequisite: Sociology 200. Taught both semesters.

391. Examination of the methodological problems of social research. Selection and definition of problems of investigation, research designs, data gathering techniques, and sampling.

392. Data-analysis techniques, including statistical analysis, measurement, scaling, multivariate analysis, and quantitative measures of association.

393. Social Science Statistics Lab [1-0-1]

Prerequisite: Junior or senior standing or consent of instructor. Taught each semester. A statistics lab focused upon the use of computerized data processing through programs already developed. Laboratory includes instructions in setting up, using and interpreting such programs. Statistics used are descriptive statistics, cross tabulations, break-downs by variable classification, correlation coefficient, multiple regression, factor analysis and analysis of variance.

Soc./SW 395. Elementary Topics

Prerequisite: Sociology 200. Taught both semesters.

Topics will vary and may be interdisciplinary. Credits will vary.

Soc./SW 404. Community Organization [3-3-0]

Prerequisite: Sociology 200. Sociology 367 is recommended. Taught spring semester.

The content of community organization and the processes of directing change therein. Course will emphasize interorganizational analysis, community problem solving, roles of professional change agents, and community-level social problems.

410. Sociology of Mental Disorders [3-3-0]

Prerequisite: Sociology 200, junior or senior status, six hours in sociology, and six hours in psychology.

An analysis of the socio-cultural factors related to mental illness and mental health, including definitions of illness and health, types, distribution with the social structure, and treatment modalities. Community psychiatry as a social movement will be examined as it relates to changing social values and definitions of illness and health.

411. Sociology of Corrections [3-3-0]

Prerequisite: Sociology 200, Sociology 321, and junior or senior status.

A sociological analysis of correctional institutions and community corrections programs within the criminal justice system. Emphasis will be on the historical development of corrections, the formal organization and inmate social systems of correctional institutions, institutional treatment programs, an assessment of community alternatives to imprisonment, and an examination of current issues affecting the future of correctional policies.

413. Sociology of Religion [3-3-0]

Prerequisite: Nine hours of sociology and junior or senior status. Courses in Psychology and Philosophy are recommended.

A sociological analysis of religion as a social institution with emphasis on the interrelationship between religion, society, and the individual. Topics covered include theoretical perspectives, empirical measurement of religiosity, and trends in secularization and religious pluralism.

414. Case Studies and Decision-Making Simulations in Organizations [3-3-0]

Prerequisite: Junior or senior standing.

Students will analyze cases describing complex problems of human and group interactions in organizations. Students will interact for decision-making in two computer simulated games and Sim-Soc (a simulated society). Students will receive feedback of the effects of their decisions. The only grade given will be pass/fail.

420. Social Change [3-3-0]

Prerequisite: Nine hours of sociology and junior or senior standing.

An analysis of changes and trends in the social, cultural, and economic institutions, social structure, and social behavior over time. The course focuses on the theories of social change, its measurement, and future trends.

422. Sociology of Inequality [3-3-0]

Prerequisite or Co-requisite: Nine hours in sociology, junior or senior status.

The sociological analysis of inequality in the social structure and stratification systems of society. Emphasis is placed on the bases, dimensions, and consequences of stratification.

430. Social Movements [3-3-0]

Prerequisite: Nine hours of sociology and junior or senior standing. Taught fall semester.

A comprehensive survey of current sociological perspectives on the causes, structures, and careers of social movements. Special emphasis on contemporary theory, methodological problems, and data sources. Case studies of several major (and many minor) contemporary movements. Movements as responses to modernization.

461. Program Evaluation [3-3-0]

Prerequisite: Sociology 391-392 and junior or senior standing.

An examination of the techniques and methods of program evaluation with special emphasis on human service delivery. Topics include the development of a management information system, need assessment, process and impact evaluation, and administrative and organizational issues.

Soc./SW 490. Senior Seminar in Sociology or Social Work [3-3-0]

Prerequisite: Twelve hours in sociology, senior standing.

Topical seminars to cover a variety of areas.

491. Practicum in Sociology [3-3-0]

Prerequisite: Sociology 310, Sociology 391-392, and senior standing.

Part-time internship in appropriate agency/organization. Periodic conferences, written evaluations, and internship project. Students must apply for internship through the department chairman at least 30 days prior to the semester. Check departmental policy statement on additional standards and prerequisites.

492. Readings in Sociology [3-3-0]

Prerequisite: Twelve hours in sociology, senior status, and consent of instructor. Taught both semesters.

Extensive reading in a chosen subject under the direction of a staff member. Subject must be decided upon and permission of instructor secured before registration.

Soc./SW 495. Advanced Topics in Sociology [3-3-0]

Prerequisite: Nine hours in sociology, junior or senior status, or consent of instructor. Taught both semesters.

Topics will vary and may be interdisciplinary.

499. Independent Research or Research Internship [3-3-0]

Prerequisite: Sociology 391-392, senior status (Sociology 461 for Research Internship), and consent of instructor. Taught both semesters. Independent Research allows the student to do a research project on a chosen subject under the direction of a staff member. The research topic must be decided upon and permission of staff member secured before registration. The Research Internship provides the student with the opportunity of doing research in an agency or program setting. Students interested in the internship must receive permission from the department chairman prior to registration.

Social Work

Soc./SW 300. Introduction to Social Work [2-2-0]

Prerequisite: Completion of six hours of social science or consent of instructor. Taught fall semester.

An examination of the profession of social work and the setting in which it is practiced. Emphasis will be on describing social work, describing social work practice, reviewing the types of agencies in which social workers practice.

Soc./SW 367. The Social Welfare Institution [3-3-0]

Prerequisite: Sociology 200. Taught fall semester.

History, philosophy, and issues of the social welfare system. Study of the relationship of welfare to industrialization, urbanization, and to the other institutions of the society.

Soc./SW 369. Family and Child Welfare Policies and Services [3-3-0]

Prerequisite: Soc./SW 300

Review and analysis of major policies, programs, and services developed to assist or substitute for the family in meeting the needs and enhancing development of children in the United States. Focus is upon the unmet needs of children consequent to income insufficiency, discrimination, changing family structure, and inadequacy of human service delivery systems.

Soc./SW 391-392. Methods and Tools of Social Research [3-2-1] [3-2-1]

Prerequisite: Sociology 200. Taught both semesters.

391. Examination of the methodological problems of social research. Selection and definition of problems of investigation, research designs, data gathering techniques, and sampling.

392. Data-analysis techniques, including statistical analysis, measurement, scaling, multivariate analysis, and quantitative measures of association.

Soc./SW 395. *Elementary Topics*
Prerequisite: Sociology 200. Taught both semesters.
Topics will vary and may be interdisciplinary. Credits will vary.

399-400. Social Work Practice [3-3-0]
(3-3-0)

Prerequisite: Sociology 200; Sociology 367 is recommended. Taught both semesters.
399. Develops beginning professional skills. Objectives include the understanding of self in a helping role; understanding the helping process; skill in interviewing; skill in preparing social studies; the development of assessment skills; listening skills; case conference participation; developing professional values; and understanding the concept of agency.

400. Develops professional skills in assessment and treatment using the problem-solving process. Continues to emphasize the development of self-understanding, professional values, and skills in working with people.

401-402. Field Placement I and II
[4-4-0][4-4-0]

Prerequisite: Sociology 200, Social Work 399, and consent of instructor. Taught both semesters.

Field experience with directed engagement in social work activities. Student may choose from a variety of settings in which social work modalities are applied to solve problems. Placement may be for a single block or may be spread through two semesters. Students must apply for field work at least thirty days before they expect to register for the course. The application consists of submitting a biographical statement and a statement of objectives to the Director of Social Work and arranging for an interview with the Director of Social Work. Check departmental policy statement on additional standards and prerequisites.

Soc./SW 404. Community Organization

Course includes review of underlying sociological concepts regarding the community, ideal typical models and strategies for community

organization practice, techniques for assessing problems, examining resource base and implementing appropriate interventive programs at the community level.

405-406. Human Behavior in the Social Environment I and II [2-2-0][2-2-0]

Prerequisite: SW 399

A two semester sequence course designed to help the social work student build upon the theoretical knowledge gained from the applied and social sciences a technological base for social work. Behavior, as a dynamic process involving a person's interaction with his environment during life experiences, is studied. A holistic framework will be used presenting human behavior as an adaptive process for dealing with one's environment.

Soc./SW 490. Senior Seminar in Sociology or Social Work [3-3-0]

Prerequisite: Twelve hours in sociology, senior status. Taught both semesters.
Topical seminars to cover a variety of areas.

Soc./SW 495. Advanced Topics in Sociology [3-3-0]

Prerequisite: Nine hours in sociology, junior or senior standing, or consent of instructor. Taught both semesters.
Topics will vary and may be interdisciplinary.



Board of Visitors

MR. HARROL A. BRAUER, JR. Rector
MR. HARRY H. WASON Vice Rector
MRS. MARY PASSAGE Secretary

Term expires June 30, 1979

MR. HARROL A. BRAUER, JR. Hampton
MR. HARRY H. WASON Newport News
DR. STEPHEN J. WRIGHT Hampton

Term expires June 30, 1980

MR. WILLIAM E. ALLAUN, JR. Gloucester
DR. DAVID G. FLUHARTY, JR. Newport News
MR. B.M. MILLNER Newport News

Term expires June 30, 1981

MRS. MARY PASSAGE Newport News
MRS. BILLIE R. PILE Smithfield
MR. WILLIAM R. SAVAGE, JR. Suffolk

Term expires June 30, 1982

DR. GEORGE C. CYPRESS Hampton
MR. STEPHEN D. HALLIDAY Hampton
MR. SAM B. JACOBS, II Newport News
MR. JOHN S. PUGH Newport News
MR. F. HUNTER CREECH Yorktown

Administrative Offices

President	James C. Windsor
Assistant to the President	Nancy J. Melton
Assistant to the President and Director, Planning and Institutional Research	E. Michael Staman

Academic Affairs

Vice President	Robert J. Edwards
Dean, School of Liberal Arts, Sciences and Education	to be filled
Dean, School of Business and Economics	to be filled
Dean, Summer School and Continuing Education	L. Barron Wood, Jr.
Special Programs Director	Agnes L. Braganza
Director of Library	Bette V. Mosteller
Assistant Director	Frank B. Edcombe
Reader's Services	Nan Eddins
Reference and Instruction	Charles W. Brownson
Acquisitions	Floyd Zula
Cataloging	Katharine E. Johnson
Special Academic Programs Director, Student Teaching	John E. Jenkins
Coordinator, International Culture and Commerce	H. Marshall Booker
Gerontology Coordinator	Ruth L. Kernodle

Affirmative Action Officer	Lora R. Friedman
Athletics Director	R. Beverly Vaughan, Jr.
Auditor	David K. Spahr, Sr.
Computer Center Director	E. Michael Staman
Development Director	to be filled
Public Information Officer and Alumni Affairs Director	Vivian A. Johnson

Financial Affairs

Vice President	C. E. Hones
Budget Director	James D. Eagle
Comptroller	Clementine S. Dixon
Supervisor, Building and Grounds	Sherman L. Skillman
Chief of Security	Johnnie L. Capehart
College Shop Manager	Jacqueline T. Haskins
Supervisor of Personnel	Elizabeth P. Welch
Supervisor of Logistics	Alice J. Greene
Student Accounts	Ether Beazley

Student Affairs

Vice President	Charles E. Behymer
Dean of Admissions	Keith J. McLoughland
Admissions Officer	Robert Laverriete
Admissions Counselor	Deborah Quinn
Director, Campus Center	John J. Sullivan
Director, Counseling Center	Frank Babcock
Career Development Coordinator	Glen G. Vought
Counselor	to be filled
Counselor	to be filled
Director, Placement	Richard E. McMurrin
Registrar	John W. McCaughey
Student Records Director	Brenda Blount
Director, Financial Aid	O. C. Ward



CHRISTOPHER NEWPORT COLLEGE
REGULAR FACULTY
1979-80

SUE GRAY AL-SALAM

Assistant Professor of Physics. B.A., Wellesley College; M.A., University of California at Berkeley; M.A., The College of William and Mary.

HITOHISA ASAI

Assistant Professor of Computer Science. B.S., Meijo University; M.S., University of Wisconsin; M.S., Tokyo Electrical Engineering College; Ph.D., University of Houston.

JOHN JOSEPH AVIOLI

Associate Professor of Mathematics. B.S., West Chester State College; M.S. and Ph.D., University of Delaware.

PAT T. BALAN

Assistant Professor of Economics. B.A. and M.A., University of Bombay; M.A. and Ph.D., State University of New York at Binghamton.

DAVID ALLEN BANKS

Professor of Biology and Environmental Science. B.S., University of Delaware; M.S. and Ph.D., The Ohio State University.

PAUL BANKIT

Associate Professor of Management and Marketing. B.A., University of Nebraska; M.B.A. and Ph.D., Michigan State University.

MARTIN WILLIAM BARTELT

Associate Professor of Mathematics. B.A., Hofstra University; M.A. and Ph.D., University of Wisconsin.

FRANKLIN SAMUEL BAUER

Professor of Psychology. B.A., M.A. and Ph.D., University of Illinois.

EDWARD HUMPHREY BOGART

Instructor in Psychology. B.A. and M.A., The College of William and Mary; Ph.D. candidate, University of California at Davis.

HENRY MARSHALL BOOKER

Professor of Economics. B.A., Lynchburg College; Ph.D., University of Virginia.

THEODORA PIERDOS BOSTICK

Professor of History. B.A., Mundelein College; M.A. and Ph.D., University of Illinois.

EDWIN CANNON BOYD

Associate Professor of Management and Marketing. A.B., Duke University; M.B.A., Wharton School of Finance and Commerce, University of Pennsylvania.

ALFRED MARTIN BUONCRISTIANI

Professor of Physics. B.S., University of Santa Clara; Ph.D., University of Notre Dame.

JUDITH GLENN BURKE

Assistant Professor of Fine and Performing Arts. B.A. and M.A., Bob Jones University; M.A., Marywood College; Ed.D., The College of William and Mary.

JANE CHAMBERS

Associate Professor of English. B.A., Pfeiffer College; M.A., University of Arkansas; Ph.D. candidate, University of North Carolina at Chapel Hill.

CHIE KEN CHANG

Associate Professor of Chemistry. B.S., Taiwan University; Ph.D., University of Notre Dame.

CHUNG-WU CHANG

Associate Professor of Sociology and Social Work. B.A., Chung-Kung University; M.S. and Ph.D., Louisiana State University.

ROBERT CHARLES COKER

Associate Professor of Management and Marketing. B.S., West Virginia Wesleyan College; M.S. and Ph.D., University of Illinois.

CARL MORGAN COLONNA

Assistant Professor of Economics. B.B.A. and M.A., Old Dominion University.

HAROLD NELSON CONES, JR.

Associate Professor of Biology and Environmental Science. B.S., Maryville College; M.A., Virginia Institute of Marine Science, The College of William and Mary; Ph.D., Bowling Green State University.

RAYMOND ARTHUR CRIPPS

Assistant Professor of Biology and Environmental Science. B.S. and M.A., California State University; Ph.D., Texas A&M University.

ROBERT HENRY CUMMINGS

Professor of Physical Education. A.A., Baltimore Junior College; B.S., University of Maryland; M.A., West Virginia University; Ph.D., University of Southern Mississippi.

ELIZABETH-ANNE DALY

Associate Professor of Education. B.A., Suffolk University; Ed.M., Boston University; Ed.D., The College of William and Mary.

JACK C. DEMIRGIAN

Assistant Professor of Chemistry. B.A., Hunter College; Ph.D., State University of New York at Buffalo.

ROBERT DALE DOANE

Associate Professor of Political Science and Governmental Administration. B.A., Lynchburg College; M.A., George Washington University; Ph.D., Temple University.

LEE ERWIN DOERRIES

Associate Professor of Psychology. B.A. and M.A., The College of William and Mary; Ph.D., University of Rhode Island.

DAVID EDWARD DOOLEY

Associate Professor of Psychology. B.A., Tampa University; M.S., Illinois State University; Ed.D., The College of William and Mary.

ROBERT JOHN DUREL

Associate Professor of Sociology and Social Work. A.A., St. Joseph Seminary; B.A., Notre Dame Seminary; M.A. and Ph.D., University of Notre Dame.

ROBERT JOHNSON EDWARDS

Professor of Biology and Environmental Science. B.A., Hobart College; Ph.D., University of Rochester.

GERALD L. ENGEL

Associate Professor of Computer Science. B.S., Hampden-Sydney College; M.A., Louisiana State University; D.Ed., Pennsylvania State University.

KEITH RAWLAND FERNSLER

Assistant Professor of Sociology and Social Work. A.B. and A.M., Indiana University; Ph.D., University of Montana.

LORA R. FRIEDMAN

Professor of Education. B.S. and M.A., City College of New York; Ed.D., University of Florida.

STAVROULA KOSTAKI-GAILEY

Assistant Professor of Basic Studies. A.A., Warren Wilson College; B.A. and Ph.D., University of North Carolina (Greensboro); M.A., Western Carolina University.

DAVIS EARL GAME

Instructor in Computer Science. B.S., Massachusetts Institute of Technology; M.S., The College of William and Mary.

RICHARD THOMAS GREENOUGH, JR.

Instructor in Political Science and Governmental Administration. B.A., University of Massachusetts; M.S., Eastern Kentucky University.

JOHN RICHARD GUTHRIE, JR.

Associate Professor of Modern Foreign Languages and Literature. A.B., The College of William and Mary; M.A., Middlebury College Graduate School of French in France; Ph.D., University of North Carolina.

MARVIN JAMES HAMILTON

Assistant Professor of Mathematics. B.S., Harvey Mudd College; M.A., University of British Columbia; Ph.D., Simon Fraser University.

GARY G. HAMMER

Professor of Chemistry. B.S. and M.S., Wichita State University; Ph.D., Georgia Institute of Technology.

JOHN THOMAS HARWOOD

Associate Professor of Basic Studies. B.A., Wartburg College; Ph.D., University of Nebraska.

JOSEPH FRANCIS HEALEY

Associate Professor of Sociology and Social Work. A.B. and M.A., The College of William and Mary; Ph.D., University of Virginia.

ROBERT WILLIAM HERRMANN

Associate Professor of Psychology. B.A., The George Washington University; M.A. and Ph.D., Michigan State University.

HUGH CONWAY HILLIARD, JR.

Assistant Professor of Computer Science. B.S., Virginia Polytechnic Institute; M.S., Harvard University.

JAMES ROBERT HINES

Associate Professor of Fine and Performing Arts. B.A., Old Dominion University; M.M., Virginia Commonwealth University; Ph.D., University of North Carolina.

JOHN ARTHUR HOAGLUND

Associate Professor of Philosophy. Ph.D., Free University of Berlin.

BRUCE CARL HOBERG

Associate Professor of Psychology. B.A. and M.A., University of Nebraska; Ph.D., University of Connecticut, Storrs.

LINDA TURNER HORNBACKE

Instructor in Education. B.S., Longwood College; M.Ed., Texas A&M University.

JAMES NIMMO HUBBARD, III

Associate Professor of Physical Education. B.S. and M.Ed., The College of William and Mary.

JOHN EMMETT JENKINS

Assistant Professor of Education. A.B., University of Richmond; M.Ed., The College of William and Mary; Ed.D. candidate, The College of William and Mary.

ELIZABETH FRANCES JONES

Professor of Classical Studies. A.B., State University of New York at Albany; Ph.D., University of North Carolina.

ADI SESHIAH KARNA

Professor of Accounting and Finance. F.A., V.R. College; B.A. and M.A., Andhra University; M.B.A. and Ph.D., The Ohio State University.

RUTH LYNCH KERNODLE

Associate Professor of Sociology and Social Work. B.A., Madison College; M.A., University of North Carolina.

PAUL CHESTER KILLAM

Associate Professor of Political Science and Governmental Administration. B.S., M.A. and Ph.D., University of Massachusetts; M.C.P., Yale University.

ALGIN BRADY KING

Professor of Management and Marketing. A.B., University of South Carolina; M.S., New York University; Ph.D., The Ohio State University.

BRUNO ALFONS KOCH

Associate Professor of Fine and Performing Arts. B.A., Baylor University; M.A., University of Houston; Ph.D., University of Michigan.

SANFORD EDWARD LOPATER

Associate Professor of Psychology. B.A., Miami University; Ph.D., University of Virginia.

ALLAN BURNAM MACLEOD

Associate Professor of English. B.A., Rollins College; M.A., University of Arizona; Ph.D., University of Missouri.

VINOD PREMCHAND MANIYAR

Professor of Economics. B.A. and M.A., Gujarat University; Ph.D., Wayne State University.

ALETHA SYLVIA MARKUSEN

Professor of Biology and Environmental Science. R.N., Trinity Hospital School of Nursing; B.S., University of North Dakota; M.S. and Ph.D., Montana State University.

CHERYL M. MATHEWS

Assistant Professor of Sociology and Social Work. B.A., Grove City College; M.A., University of Hawaii.

MARIO DOMINIC MAZZARELLA

Associate Professor of History. A.B., Providence College; M.A., University of Rhode Island; Ph.D., The American University.

JOHN D. MCGREGOR

Assistant Professor of Basic Studies. B.S., M.A. and Ph.D., Peabody College.

ALBERT EDWARD MILLAR, JR.

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

BUCK GWYNN MILLER

Instructor in Political Science and Governmental Administration. B.A., Gettysburg College; M.P.A., New York University; Ph.D. candidate, New York University.

RONALD SAMUEL MOLLOCK

Associate Professor of Biology and Environmental Science. B.S. and M.S., San Diego State University; Ph.D., North Carolina State University.

JAMES IRWIN MOORE

Associate Professor of Political Science and Governmental Administration. B.S., Naval Post-graduate School; M.A.P.A. and Ph.D., University of Oklahoma.

TIMOTHY EVERETT MORGAN

Associate Professor of History. B.S. and M.A., Purdue University; Ph.D., The College of William and Mary.

JAMES MATTHEW MORRIS

Professor of History. A.B., Aquinas College; M.A., Central Michigan University; Ph.D., University of Cincinnati.

ST. ELMO NAUMAN, JR.

Associate Professor of Philosophy. B.A., University of Chicago; B.D., Berkeley Divinity School; Ph.D., Boston University.

KENNETH BERNARD NEWELL

Associate Professor of English. B.S., University of Lowell; A.M., Columbia University; Ph.D., University of Pennsylvania.

LEE CHARLES OLSON

Professor of Biology and Environmental Science. B.S., South Dakota State University; M.S. and Ph.D., University of Wisconsin.

JULIET ZUE PAO

Instructor in Mathematics. B.A. and M.A., University of Florida.

ANDREW JACKSON PAPAGEORGE

Professor of Management and Marketing. B.S., United States Naval Academy; M.B.A., Stanford University; Ph.D., University of California, Los Angeles.

JAY S. PAUL

Assistant Professor of English. B.A., Hartwick College; M.A. and Ph.D., Michigan State University.

STANFORD CARL PEARSON

Instructor in Mathematics. B.A., Amherst College; M.S., Florida State University.

RONALD LEE PERSKY

Assistant Professor of Mathematics. B.S., Purdue University; M.A., University of Cincinnati.

JOUETT LYNN POWELL

Assistant Professor of Philosophy. B.A., Baylor University; B.D., Southern Baptist Theological Seminary; M.Phil. and Ph.D., Yale University.

JOHN WOLF PROW

Assistant Professor of Earth Sciences and Geography. B.A., University of Maryland; M.A., The College of William and Mary; Ph.D. candidate, VIMS.

JEAN ELIZABETH PUGH

Professor of Biology and Environmental Science. B.S., Madison College; M.A. and Ph.D., University of Virginia.

ALICE FRACKER RANDALL

Assistant Professor of Basic Studies. A.B., George Washington University; M.Ed., The College of William and Mary.

D. DORIS REPPEN

Associate Professor of Modern Foreign Languages and Literature. B.A., University of Buenos Aires; M.A., University of California at Berkeley.

DONALD BENNETT RILEY

Associate Professor of Accounting and Finance. B.S., The College of William and Mary; M.B.A., University of North Carolina; C.P.A. (Va.)

LAWRENCE JOSHUA SACKS

Professor of Chemistry. A.B., Drew University; M.S., The Pennsylvania State University; Ph.D., University of Illinois.

WALLACE STEPHEN SANDERLIN, JR.

Professor of English. A.B., The College of William and Mary; M.A., Catholic University; Ph.D., University of Virginia.

GLEN RAYMOND SANDERSON

Associate Professor of Accounting and Finance. B.S., Christian Brothers College; M.B.A., University of Arkansas; Ph.D., Michigan State University; C.P.A. (Texas)

ROBERT MILLER SAUNDERS

Professor of History. B.A. and M.A., University of Richmond; Ph.D. University of Virginia.

CHRISTOPHER DON SCHEIDERER

Assistant Professor of Modern Foreign Languages and Literature. B.A. and M.A., The Ohio State University; Ph.D. candidate, University of Maryland.

JAMES NEWTON SHAVER, JR.

Assistant Professor of Accounting and Finance. B.S. and M.S., Florida State University.

MARYGERTRUDE S. SHOLTIS

Associate Professor of Physical Education. B.Ed., University of Miami; M.S., Southern Connecticut State College; Ph.D. candidate, University of Connecticut.

RUTH OWNBY SIMMONS

Assistant Professor of Biology and Environmental Science. B.S., Carson-Newman College; M.Ed., University of Virginia.

FRANCES GILLIAM SLOCUMB

Assistant Professor of Psychology. B.S., Old Dominion University; M.A., The College of William and Mary; Ph.D. candidate, Virginia Commonwealth University.

JOYCE ANNE SMITH

Assistant Professor of Sociology and Social Work. B.A., Old Dominion University; M.S.W., Virginia Commonwealth University.

JOANNE SMIT SQUIRES

Professor of Psychology. B.S., Ohio University; M.S. and Ph.D., University of Pittsburgh.

EDWARD MICHAEL STAMAN

Assistant Professor of Computer Science. A.B., Elizabethtown College; M.S., Pennsylvania State University; Ed.D. candidate, The College of William and Mary.

SUSAN SMITH ST. ONGE

Associate Professor of Modern Foreign Languages and Literature. B.A. and Ph.D., Vanderbilt University; M.A., University of Wisconsin.

GEORGE ALBERT TESCHNER

Assistant Professor of Philosophy. B.A., Rutgers University; M.A., New York University; Ph.D., New School of Social Research, New York.

CAROLYN DALTON TRUE

Instructor in Education. B.A., University of New Hampshire; M.A., University of Virginia.

ALAN H. Y. TSAO

Assistant Professor of Management and Marketing. B.S., National Taiwan University; M.S., University of Massachusetts; M.A., Stanford University; Ph.D., Iowa State University.

ANTHONY TSAI-PEN TSENG

Assistant Professor of Psychology. B.S., National Taiwan University; M.A. and Ph.D., University of Utah.

STUART COPELAND VAN ORDEN

Professor of Fine and Performing Arts. B.A., Southwestern University; M.F.A., Cornell University; Ph.D., Syracuse University.

JAMES CLEMENT VAN PELT

Associate Professor of Management and Marketing. B.S., United States Naval Academy; M.B.A., Stanford University; D.B.A., George Washington University.

JAMES SKELLY WARREN

Assistant Professor of Fine and Performing Arts. B.A., University of Houston; M.A., Northwestern University.

GEORGE RANDOLPH WEBB

Professor of Physics. A.A., Old Dominion University; B.S., Massachusetts Institute of Technology; Ph.D., Virginia Polytechnic Institute.

JANE CARTER WEBB

Assistant Professor of Physics. B.A., M.A., and Ph.D., Tulane University.

GLENN MARTIN WEBER

Assistant Professor of Mathematics. B.S., Polytechnic Institute of Brooklyn; M.S. and Ph.D., Cornell University.

CECIL HARVEY WILLIAMS, JR.

Associate Professor of Political Science and Governmental Administration. A.B., Duke University; M.Div., Crozer Theological Seminary; M.A., University of Virginia.

JAMES CLAYTON WINDSOR

Professor of Psychology. B.A., College of William and Mary; M.Div., Colgate Rochester Divinity School; M.S., Virginia Commonwealth University; Ed.D., University of Virginia.

WILLIAM CHARLES WINTER

Associate Professor of Political Science and Governmental Administration. B.S., State University of New York; M.A. and Ph.D., The American University.

EDWARD SPENCER WISE

Professor of Biology and Environmental Science. B.S., Virginia Polytechnic Institute; M.S. and Ph.D., University of Illinois.

WILLIAM DENNIS WOLF

Associate Professor of English. B.A., Baker University; M.A. and Ph.D., University of Wisconsin.

LAWRENCE BARRON WOOD, JR.

Associate Professor of English. A.B., Hampden-Sydney College; M.A., University of Pennsylvania.



FACULTY ON LEAVE

JERRY WILLIAM FERRY

Assistant Professor of Management and Marketing. B.S.E.E., Northwestern University, M.B.A., Columbia University; Ph.D. candidate, University of Arkansas.

RITA COOPER HUBBARD

Assistant Professor of Fine and Performing Arts. B.A., College of Notre Dame of Maryland, M.A., The Johns Hopkins University.

DAVID WESLEY KING

Assistant Professor of Modern Foreign Languages and Literature. B.S., Georgia Southern College; M.A., Laval University.

LEA BUCHANAN PELLETT

Assistant Professor of Sociology and Social Work. B.A. and M.A., The College of William and Mary.

MARY LUELLA ROYALL

Assistant Professor of Physical Education. B.S., Madison College; Ph.D. candidate, University of North Carolina at Greensboro.

WAYNE MORRIS SCHELL

Instructor in Accounting and Finance. A.A., Christopher Newport College; B.S., Old Dominion University; M.B.A., The College of William and Mary; Ph.D. candidate, Virginia Polytechnic Institute and State University.

GODWIN THOMAS WHITE

Instructor in Accounting and Finance. B.A. and M.B.A., The College of William and Mary.

EMERITAE

DAISY DAVIS BRIGHT

Associate Professor of Mathematics. A.B. and M.A., University of Alabama.

JOYCE K. SANCETTA

Professor of English. B.A., College of Wooster; Ph.D., Yale University.

Index

About the College	3	Code for Academic Work	20
Absences from Class	30	College-Level Examination Program	13, 85
Absences from Final Examination	31	Communications	70
Academic Policies	29	Community Planning	45
Academic Warning	34	Computer Science	71
Accounting	57	Continuance in College	33
Accreditation	4	Continuing Studies	28
Add/Drop Period	30	Corrections	45
Administrative Officers	158	Counseling Services	22
Admission of Foreign Students	12	Course Numbering System	57
Admission to Classified Status	8	Courses of Instruction	57
Admission to Unclassified Status	9	Course Offerings in the Evenings	28
Adult Learning	28	Course Offerings in the Summer	28
Advanced Placement and Credit	13	Courses Taken Elsewhere	35
Affiliated Programs	53	Credit from Other Institutions	9
Aims and Purposes	3	Criminal Justice Administration	45
Anthropology	60	Dean's Academic Honor List	33
Applied Music Fee	96	Declaration of Major	35
Art	90	Declaration of Minor	35
Associate in Arts Degree	51	Deferred Examination	32
Athletic Activities	20	Deferred Payment	16
Auditing a Course	30	Degrees, General Requirements	37
Bachelors' Degrees	37	Associate	51
Bachelor of Science Degree in Business Administration	48	Baccalaureate	37
Bachelor of Science Degree in Governmental Administration	44	Distribution Requirements	39
Bachelor of Science Degree in Information Science	42	Double Major	35
Bachelor's Degree in Interdisciplinary Studies	50	Dropping Courses	30
Bachelor of Arts Degree in International Culture and Commerce	40	Early Admission to the College	11
Bachelor's Degree, Second	35	Early Registration	29
Basic Studies	12, 60	Earth Sciences and Geography	74
Biology and Environmental Science	61	Economics	76
Board of Visitors	157	Education	79
Buildings	4	Employment, Student	25, 27
Business and Economics	48	Engineering	84
Calendar, College	1	English	84
Career Placement	27	Environmental Science	61
Challenging a Course	36	Evaluation of Transfer Credit	9
Changes in Registration	29	Examinations	31
Chemistry	67	Expenses	16
Cinema	99	Faculty	160
Classical Studies	70	Fees and Expenses	16
Classification of Students	35	Fees, Music	96
Clubs	20	Final Examinations	31
		Finance	57
		Financial Assistance	23
		Fine and Performing Arts	90
		Foreign Languages	119
		Classical	70
		Modern	119
		Foreign Students	12
		Forgiveness Policy	31

French	120	Placement Tests	13
G.I. Bill	15	Political Science	137
Geography	74	Pre-Engineering Program	133
German	123	Probation, Academic	34
Gerontology	54	Program Planning	29
Governmental Administration	44, 137	Project Ahead	12
Grading System	32	Psychology	142
Handicapped Students	4	Publications, Student	22
Health and Physical Education	132	Public Management	45
History	100	Readmission	31
History of the College	3	Real Estate	108
Honors, graduation with	38	Refunds	18
Humanities	106	Registration	29
Incidental Expenses	19	Registration, Changes in	29
Incomplete	31	Registration, Early	29
Information Science	42	Reinstatement after Suspension	34
International Culture and Commerce	40	Religious Studies	127, 131
Journalism	71	Repeated Courses	32
Late Registration Fee	30	Residence Requirements, State	17
Latin	70	Scholarships	25
Library	5	Second Baccalaureate Degree	35
Loans	25	Senior Citizens	12
Major, Declaration of	35	Serviceperson's Opportunity College	12
Management	107	Social Work	149
Marketing	108	Sociology	149
Mathematics	112	Spanish	124
Military Science (Army)	111	Special Programs	28
Minor, Declaration of	35	Speech	98
Modern Foreign Languages and Literatures	119	Student Activities	20
Music	93	Student Dress	19
Normal Academic Load	29	Student Employment	25, 27
Numbering of Courses	57	Student Government	20
Off-Campus Courses	28	Student Life	19
Ornamental Horticulture	63	Student Organizations	20
Out-of-State Students, Tuition Fee	16	Student Publications	22
Overload Schedule	29	Students, Out-of-State	16, 17
Parking Regulations	19	Student Responsibilities	27
Parks, Open Space, Recreation, Natural Resources Management	61	Student Rights	19
Part-time Employment	25, 27	Summer Session	15, 28
Part-time Students	29	Suspension, Academic	34
Pass-Fail Option	32	Teacher Education	79
Payment of Accounts	16	Theatre Arts	97
Performing Arts	90	Transcripts	10
Philosophy and Religious Studies	127	Transfer Students	9
Physical Education	132	Tuition	16
Physics	134	Unclassified Students	9
Placement Service	27	Veterans	15
		Waiver of Distribution Requirement	39
		Withdrawal from College	30

