

Christopher Newport College
P. O. Box 6070
Newport News, Virginia 23606
Phone (804) 599-7015

Cover Sketch by Dr. Stuart C. Van Orden
Professor of Art
Christopher Newport College

In order to keep pace with the rapidly changing world of modern higher education, the College reserves the right to deviate from printed course descriptions without notice.

Christopher Newport College



Supplement to the 1975-77 Catalogue

Newport News, Virginia

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Christopher Newport College does not discriminate with regard to race, color, creed, sex, or national origin.

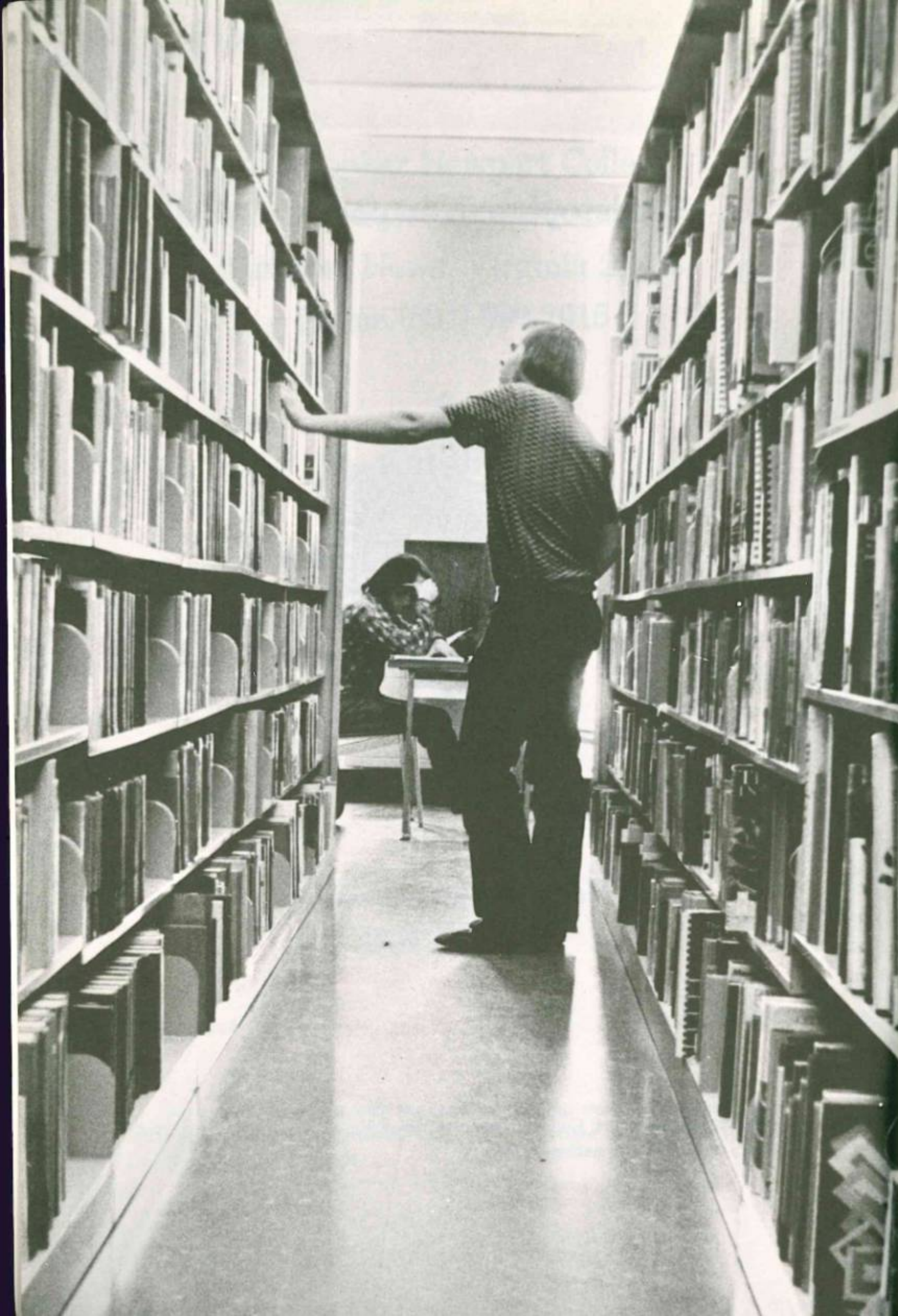


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Calendar 1976-77

1976

Fall Semester

August 23	Orientation for freshmen and new transfers
August 24-25	Registration
August 26	Faculty workshop
August 30	Beginning of classes
September 3	Last day for add/drop and late registration
September 6	Labor Day holiday: College closed
September 17	Last day for refunds
October 1	Last day for intent to graduate (December)
October 22	Last day for dropping a class without a penalty of failing grade
October 25	Freshman mid-semester grade reports filed with Registrar
October 29	Deadline for withdrawing from College without grade notation of WP or WF
November 25-26	Thanksgiving holiday: College closed
December 3	Last day for intent to graduate (May)
December 6-10	Early registration for Spring Semester
December 10	End of classes
December 13-18	Examination period
December 19	Commencement
December 22	Final Semester grades filed with Registrar

1977

Spring Semester

January 10	Orientation for new students
January 11-12	Registration period
January 17	Beginning of classes
January 21	Last day of add/drop period and late registration
February 4	Last day for refunds
March 4	Last day for dropping a class without a penalty of failing grade
March 7	Freshman mid-semester grade reports filed with Registrar

March 7-11 Spring recess
 March 18 Last day for withdrawing from College without
 grade notation of WP or WF

April 29 End of all classes: 5:00 p.m.

May 2-10 Examination period
 May 13 Final semester grades filed with Registrar

Summer Sessions

June 6 Registration
 June 8 Classes begin

August 11 Close of summer session
 August 13 Commencement

Officers of the College

Board of Visitors

Term expires June 30, 1977

Mrs. Mary L. Passage Newport News, Va.
 Mrs. Billie R. Pile Smithfield, Va.
 William R. Savage, Jr. Suffolk, Va.

Term expires June 30, 1978

F. Hunter Creech Yorktown, Va.
 Stephen D. Halliday Hampton, Va.
 William R. Walker, Jr. Newport News, Va.

Term expires June 30, 1979

Harrol A. Brauer, Jr. Hampton, Va.
 Mrs. Ann H. Kilgore Hampton, Va.
 Harry H. Wason Newport News, Va.

Term expires June 30, 1980

William E. Allaun, Jr. Newport News, Va.
 Dr. David G. Fluharty Newport News, Va.
 B. M. Millner Newport News, Va.

Administrative officers

President James C. Windsor
 Assistant to the President Nancy J. Melton
 Dean of Academic Affairs Thomas J. Musial
 Associate Dean of Academic Affairs Robert J. Edwards
 Director of Student Teaching John Jenkins
 Assistant Dean of Academic Affairs L. Barron Wood, Jr.
 Registrar Brenda Blount
 Assistant Registrar Vivian Johnson
 Librarian Bette V. Mosteller
 Associate Librarian, Readers' Service Nan Eddins

Assistant Librarian, Readers' Services

and Reference Charles W. Brownson
Assistant Librarian, Acquisitions Laura Miley
Assistant Librarian, Cataloging Katharine E. Johnson

Business Manager Calvin Hones
Agency Personnel Supervisor Elizabeth P. Welch
Business Office Manager Edna Appleton
Cashier Esther Beazley
Purchasing Contracting Supervisor Alice Green
Building and Grounds Supervisor Skip Skillman
College Shop Manager Jackie Haskins

Dean of Student Affairs William H. Polis
Director of Counseling Center Franklin K. Babcock
Director of Placement Richard E. McMurren
Director of Financial Aid O. C. Ward
Director of the Campus Center John Sullivan

Dean of Admissions Keith F. McLoughland
Assistant Dean of Admissions Mary F. Hardman
Veterans' Affairs Robert Laverriere

Director of Development Denton Beal

Public Information Officer Kathy Mazzearella

Director of Computer Services and Institutional Studies . E. Michael Staman

Director of Intercollegiate Athletics R. Beverley Vaughan, Jr.

Consulting Psychiatrist T. J. Lassen, M.D.

Faculty Officers

Division of Arts and Letters

Chairman, Department of Classical Studies Elizabeth F. Jones
Chairman, Department of English Jane Chambers
Chairman, Department of Fine and Performing Arts .. Rita C. Hubbard
Chairman, Department of History William Parks

Chairman, Department of Humanities Walter L. Knorr
Chairman, Department of Modern Foreign
Languages and Literatures Christopher D. Scheiderer
Chairman, Department of Philosophy John Hoaglund

Division of Natural and Quantitative Sciences

Chairman, Department of Biology and
Environmental Sciences David Bankes
Chairman, Department of Chemistry Lawrence J. Sacks
Chairman, Department of Computer Science Robert Nason
Chairman, Department of Geography J. Wolf Prow
Chairman, Department of Mathematics John J. Avioli
Chairman, Department of Physics George R. Webb

Division of Social and Behavioral Sciences

Chairman, Department of Anthropology Ruth L. Kernodle
Chairman, Department of Political Science William Winter
Chairman, Department of Psychology Robert Wildblood
Chairman, Department of Sociology Robert Durel

Division of Business and Economics

Acting Chairman, Department of Accounting and
Finance Donald B. Riley
Chairman, Department of Management, Marketing
and Retailing Edwin S. Boyd
Chairman, Department of Economics Vinod P. Maniyar

Division of Education and Communications

Chairman, Department of Basic Studies John Harwood
Chairman, Department of Education John E. Jenkins
Chairman, Department of Physical Education James N. Hubbard

New Faculty

- Ms. Linda Rand Caviness**, Instructor in Sociology. B.A., North Carolina State University, M.S., North Carolina State University.
- Dr. Robert H. Cummings**, Associate Professor of Physical Education. B.S. University of Maryland, M.A., West Virginia University, Ph.D., University of Southern Mississippi.
- Dr. Jack Demirgian**, Instructor in Chemistry. B.A., Hunter College, Ph.D., SUNY.
- Mr. John T. Herren**, Assistant Professor of Accounting. B.A., University of Maryland, M.ED., College of William & Mary, C.P.A., Virginia State Board of Accounting.
- Dr. James Hines**, Assistant Professor of Music. B.A., Old Dominion University, M.M., Virginia Commonwealth University, Ph.D., University of North Carolina.
- Mrs. Linda T. Hornback**, Instructor in Education. B.S., Longwood College, M. ED., Texas A&M University.
- Dr. Algin B. King**, Professor of Management. A.B., University of South Carolina, M.S., Marketing and Retailing, Ph.D., Ohio State University.
- Dr. Bruno A. Koch**, Assistant Professor of Theatre Arts. B.A., Baylor University, M.A., University of Houston, Ph.D., University of Michigan.
- Mr. Mohan L. Mehta**, Assistant Professor of Accounting and Finance. M.B.A., CUNY, M.B.A., Ohio University, M.Com., University of Rajasthan, Jaipur, India, LL.B., University of Rajasthan.
- Mr. Buck G. Miller**, Instructor of Political Science. A.B., Gettysburg College, M.P.A., New York University (Ph.D. Candidate, New York University).
- Wayne M. Schell**, Instructor in Accounting. B.S., Old Dominion University, M.B.A., William & Mary, C.P.A., Virginia State Board of Accounting.
- Dr. Anthony T. Tseng**, Assistant Professor of Psychology. B.S., National Taiwan University, M.A., University of Utah, Ph.D., University of Utah.
- Dr. George A. Teschner**, Assistant Professor of Philosophy. B.A., Rutgers University, M.A., New York University, Ph.D., New School for Social Research.

Accreditation

Christopher Newport College was given independent accreditation as a four-year, baccalaureate degree-granting institution in November of 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.

Admission to the College

Christopher Newport College does not discriminate with regard to race, color, creed, sex or national origin.

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 such would seem academically beneficial. The exact course load for a Classified student is always determined during the interview with a counselor or faculty adviser.

Applicants for admission must present their applications on forms secured 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 to Christopher Newport College as a freshman 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 secondary school principal or guidance counselor.

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 as to 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.

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 for 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).

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.**

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.

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 Dean 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.

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 but has earned less than 15 transferable semester credits, he or she must provide the applicable credentials mentioned in (a) and (b) above; have his or her college(s) forward the official college transcript(s); and have the registrar at the last college attended as a full-time or degree-seeking student fill out the Certificate of Academic Standing.
 - (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.

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 or Assistant 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 Dean or Assistant Dean of Admissions. 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.

International Students

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. International applicants must apply for the fall semester by July 1 and for the spring semester by November 15.

Senior citizens who are 62 or older and residents of Virginia have special opportunities for enrollment in Christopher Newport College and in all other state colleges. Senior citizens whose **taxable** income for federal tax purposes did not exceed \$5,000 for the year preceding the year in which enrollment is sought 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 as an Auditor.**

Regardless of income, senior citizens who are residents of Virginia may register for a maximum of three such courses per semester **without paying tuition or fees**.

Serviceperson's Opportunity College [SOC]

Christopher Newport College endorses the concept of assisting service men and women under the terms of the Serviceperson's 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 educational 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.

Evaluative 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 or Assistant 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 area 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 currently are available in these areas: Introductory Accounting, Afro-American History, American Government, American History, American Literature, Biology, Introductory Business Law, Introduction to Business Management, Calculus with Analytic Geometry, General Chemistry, Clinical Chemistry, College Algebra, College Algebra-Trigonometry, Computer and Data Processing, Fortran IV, Elementary Computer, Educational Psychology, English Composition, English Literature, Geology, History of American Education, Human Growth and Development, Analysis and Interpretation of Literature, Introductory Marketing, Medical Technology, Hematology, Immunohematology and Blood Banking, Microbiology, Money and Banking, General Psychology, Introductory Sociology, Statistics, Tests and Measurements, Trigonometry, Western Civilization, Introductory Macro-Economics, Introductory Micro-Economics, and Introductory Micro- and Macro-Economics.

In order to earn credit at the College, students taking any of the tests must complete the optional essay section as well as the objective tests. In

order to avoid the possibility of duplicated credit, students who have received collegiate instruction in any subject should consult with the Associate Dean 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 Associate Dean 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).

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 ten 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.

Veterans' Certification

An applicant who is a veteran is requested to furnish the College with a copy of his or her notice of separation from military service (DD Form 214). If not released until immediately before the enrollment date, he or she will be expected to furnish the form as soon as it is available. Those interested in further information about the use of G.I. benefits for study at Christopher Newport College, should contact CNC's Office of Veterans' Affairs at 599-7175.

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 Only

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.

Academic Policies Distribution Requirements

English

English 101-102, 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 educational background as well as career interests and potential major.

Physical Education

The distribution requirement for physical education is now four credits, rather than two. Each semester Activities course now earns two credits (rather than one) and the appropriate quality points.

The requirement for a bachelor's degree, in light of this change, is now **one hundred and twenty-four semester credits** instead of the previous one hundred and twenty-two semester credits.

The requirements for an Associate degree now include a minimum of sixty-four semester credits (instead of the previous sixty-two). Of these sixty-four semester credits, sixty must be in academic subjects and **four** in required physical education activities courses.

Mathematics or Philosophy

There is no longer a limit on the number of semester credits of 100-level mathematics courses that may be applied toward any B.A., B.S., B.S.G.A., or A.A. degree.

Psychology

The new **Principles of Psychology 201** is **not** considered equivalent to the previous **Principles of Psychology 201-202** two semester course.

Requirements for Dean's List

Effective in the Fall of 1976, the following criteria will be used for determining which students will qualify for the Dean's academic honor list:

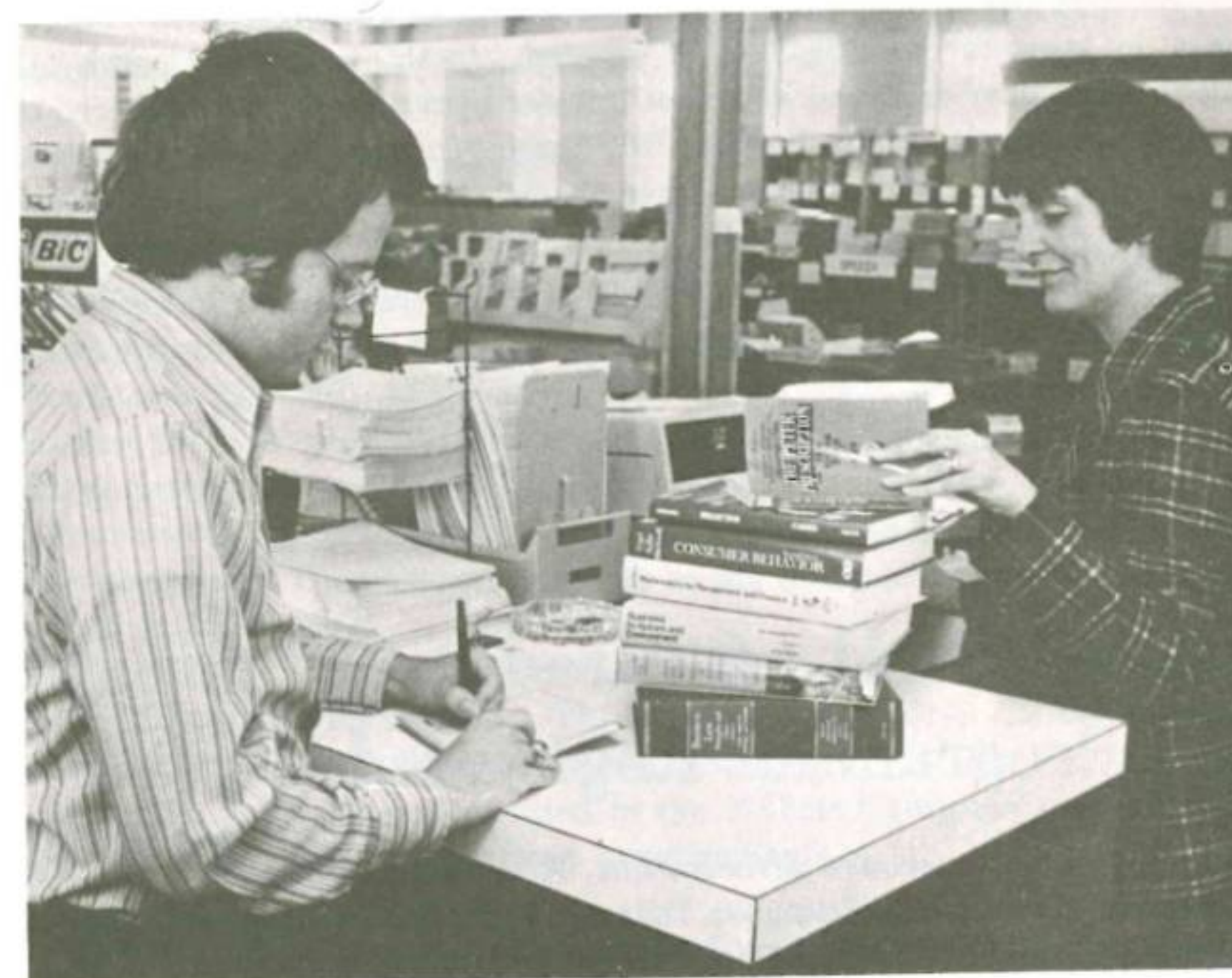
- (1) The student must be full-time (enrolled in 12 or more credit hours).
- (2) The student may not earn any grade below C.
- (3) The student's semester grade point average must be at least 3.25.

Topics Courses

The following course has been adopted and is effective Fall 1976.

Topics 295. A lower level topics course to allow some experimentation and

flexibility at this lower level. No course taken as Topics 295 may be used as or substituted for a distribution requirement.



Virginia Community College Transfer Credit Policy

Christopher Newport College grants up to 66 semester hours (99 quarter hours) of credit for course work taken within the Virginia Community College System. This generally means that a student who completes a two-year degree at a community college can complete a baccalaureate degree at Christopher Newport in an additional two years of study.

The College does not accept the Associate degree at face value, but students who have earned the A.A. or A.S. degree fulfill the requirements for junior standing. When a student is admitted to Christopher Newport College, each course is evaluated individually. Grades of D or better are acceptable and all grades transfer at face value. A student who has followed a transfer degree program should not experience credit loss. A.A. and A.S. graduates almost always satisfy college distribution requirements although in

some cases they may be required to take specific courses required by the College or for their majors.

At least two quarters of a sequential course (e.g., English 111-112-113) must be taken for any credit to be granted. In this example, English 111 alone (three quarter hours) would not transfer because it is not considered to be the equivalent of our English 101 (three semester hours). However, English 111-112 would transfer as our English 101 and four semester hours of credit would be awarded. We therefore encourage prospective transfer students to complete all two or three quarter course sequences in order to maximize transfer credit.

New Programs

CNC/ODU Affiliated Baccalaureate Program for Registered Nurses

Through a cooperative arrangement, it is now possible for registered nurses to 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 Step 1 of the program. Students will be assigned to an adviser from the ODU School of Nursing throughout Step 1 of their studies.

The admission and degree requirements of Old Dominion University must be met by students who 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. The remaining

six hours of residence credit must be earned by enrolling in Nursing 390 and Nursing 490.

To earn the B.S.N. degree in the affiliated program, a student must successfully complete four steps in the following sequence:

Step 1. General Prerequisites

Old Dominion University requires that students complete the following prerequisite courses for the Bachelor of Science degree in Nursing: Chemistry 131-132, 133; Biology 103, 200, 302; Math 105, 130; Nutrition 218; Psychology 201, 301, 405; Sociology 201, 240; English 101; and General Studies 287. In addition, six semester hours in Humanistic Studies and fifteen hours of electives are required. One elective must be in Sociology. It is recommended that Biology 302: **Pathophysiology** and General Studies 287: **Interdisciplinary Theories and Concepts** be the terminal courses in this step.

The student may satisfy these requirements by taking equivalent courses at Christopher Newport College. The list of equivalent CNC courses appears below. It is necessary to have a quality point average of at least 2.0 at the end of Step 1. A student enrolled in the affiliated program may not use CLEP examinations to satisfy Step 1 requirements.

Following the successful completion of Step 1, the student may apply to the Department of Nursing at Old Dominion University for admission as a nursing major. Upon acceptance, he or she may proceed to Step 2.

Step 2. Nursing Theories and Concepts

Nursing 390: **Nursing Theories and Concepts** will be offered at Christopher Newport College by the Department of Nursing at Old Dominion University. In order to proceed to Step 3, a grade of C must be earned in this course.

Step 3. Challenge Exams

Challenge exams will be given at Old Dominion University by the Department of Nursing. Exams in Nursing I, II, III, and IV will be scheduled at appropriate intervals and must be taken in sequence. A student will have one opportunity to challenge each course. A student has the additional option of taking or challenging the course in Nutrition. A total of forty-three semester hours may be earned by taking the challenge exams. To help prepare for the exams students will be given statements of

examination (course) objectives, topical outlines, recommended readings, handouts, and bibliographies. Challenge exams for the nutrition and nursing courses are prepared and evaluated by the faculty of the Department of Nursing at Old Dominion University. The test questions are based on the ODU course objectives and require synthesis and application of knowledge. The minimum passing grade is 74%. A fee will be charged to cover the costs of administering the challenge exams. A total of 115-118 semester hours must be earned by the completion of Step 3.

Step 4. Nursing 490: Clinical Project and Seminar

The terminal nursing course will be offered at Christopher Newport College by the Old Dominion University Department of Nursing. Application for graduation must be made prior to Step 4. Upon completion of the four steps, one hundred and twenty-one semester hours must have been earned as required for the Bachelor of Science degree in Nursing from Old Dominion University.

ODU Prerequisites		Semester Hours	CNC Equivalents	Semester Hours
Chem 131-132	Gen. Chem for Health Sciences I	4	Chem 103, 104	4
Chem 133	Gen. Chem for Health Sciences	4	Chem 105, 106	4
Bio 103	Basic Bacteriology	4	Bio 212	4
Bio 200	Hum. Anat. & Physiology	5	Bio 213, 214	8
Bio 302	Pathophysiology	4	Bio 395	4
Math 105	Math for Bus. Finance	3	Math 110	3
Math 130	Elementary Statistics	3	Math 220	3
Psych 201	General Psychology	3	Psych 201	3
Psych 301	Child Development	3	Psych 308	3
Psych 405	Abnormal Psychology	3	Psych 403	3
Soc 201	Introduction to Sociology	3	Soc 200	3
Soc 240	Marriage and the Family	3	Soc 303	3

Eng 101	English Composition	3	Eng 101
G.S. 287	Interdisciplinary Theories and Concepts	3	
Humanistic Studies		9	For appropriate elective and Humanities courses at CNC
Electives - Five (one must be Sociology)		15	see your adviser.

Freshman English Program

A new freshman English program will be in effect beginning Fall 1976 for entering students (those beginning their freshman English requirement at CNC). It will replace the current program (the old 101-102 sequence) given in the 1975-77 College Catalogue.

Successful completion of a six-hour sequence of freshman English will **still be required** of degree-seeking students. However, the English Department has redesigned the freshman program to make it possible for the student to satisfy the distribution requirement by completing one of two six-hour sequences: English 101-102 or English 103-104. (In some cases, if approved by the English Department, the student may mix these sequences as follows: 101-104 or 103-102.)

The new program is for entering students only. Students who successfully completed the old 101 before the fall of 1976 will be able to complete the sequence they began by taking 102 this fall. Thus, three sections of 102 will be offered in the Fall 1976 semester.

There will be no difference in goals and standards in English 101-102 and 103-104. Whether the student enrolls in the 101-102 or the 103-104 sequence, he will seek to master the verbal and rhetorical skills needed if he is to succeed in college-level work. Mastery of a clear, correct, and persuasive prose style is essentially the goal of both courses.

There will be differences in the two sequences, however, regarding the pace and the subject matter for the compositions.

The Differences Between English 101-102 and English 103-104

The Pace. English 101 will move at a slower pace than English 103: from the word and the sentence to the paragraph and then the theme (the 500-word essay). More time will be spent in a review of the fundamentals (grammar, punctuation, and the like) than in 103. English 101 is not, however, the same course as Basic Writing (offered by the College's Basic Studies Department). Credit in Basic Studies courses does not apply toward a degree at the College. Credit in English 101-102 or 103-104 does. The same principles of composition and rhetoric will be covered in 101 that are covered in 103, but more slowly.

The Subject Matter. The fundamental subject matter is composition in both 101-102 and 103-104. Composition must, however, take place within some context; there must be something for the student to write about. In English 101-102, the subject matter for this writing will be, primarily, material related to the student's major fields and interests; the documented paper in 102 will be on a subject related to the student's special interest. In 103-104, the student will also (at first) write about subjects related to his or her major field or interests; however, some of the short papers in 103 and all of the papers (including the documented paper) in 104 will be about literature (short stories, plays, and so forth). More time will be devoted to the study of literature in 103 than in 101, although some time will be spent on literature in 101.

Which Sequence Should the Student Take?

The student and his adviser should consider several factors: the student's educational background (the number and nature of previous English courses he or she has taken and the grades in these); the student's current verbal and writing skills (as indicated by pre-college test scores); and the student's career interest and potential major. Some departments may prefer the 101-102 sequence for their majors; others may prefer the 103-104 training. Students who successfully complete either sequence should possess the necessary writing skills. However, the student who completes 103-104 will have gained more experience with literature and will probably be better prepared for a liberal arts degree program than one who has taken 101-102. Since many entering freshmen are undecided about their majors and educational interests and needs, some flexibility exists in the program, and it is possible for the student to switch sequences after completion of the first semester course. Thus he may take (upon approval) 101 and then 104, or 103 and then 102.

Interdisciplinary Degree Program

The option for an Interdisciplinary Degree will become effective in the Fall 1976 semester.

Each student interested in this major must propose a program in consultation with two or more advisers representing the various disciplines in the student's program. The selection of courses designed to achieve this degree must be specified and submitted for approval, prior to the completion of 75 semester hours, to a committee composed of chairpersons or their designate in the chosen disciplines. The program must include a minimum of thirty credits in 300-400 level courses in the selected disciplines and must meet that set of distribution requirements for each of the chosen disciplines.

Additional information about the Interdisciplinary Degree Program may be obtained from the office of the Dean of Academic Affairs.

Pre-Engineering Program

A Two-Year Pre-Engineering Program

The Physics Department with the cooperation of Old Dominion University and Virginia Polytechnic Institute and State University has designed a pre-engineering program in which Peninsula students can complete two years of engineering study. Persons who finish the program at CNC will be able to begin their studies at ODU and VPI as juniors, contingent upon admission to these schools. 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 within biking or driving distance of 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, civil or chemical engineer and for study and research in the important area of 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.

Fall		Spring	
I. First Year			
Chem. 121	3	Chem. 122	3
Chem. 125	2	Chem. 126	2
Physics 201	4	Physics 202	4
Math 230	4	Math 240	3
English 101	3	English 102	3
Physics 121	2	Physics	2
Total	18		17
Fall		Spring	
II. Second Year			
Math 330	3	Math 320	3
Tech. Elective *	3	Math 310	3
Physics 301	4	Physics 302	4
Physics 351	3	Computer Science	3
Humanities-Elec.	3	Tech. Elective or Hum. Elec.	3
Total	16	Prof. Ethics	1
		Total	17

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.

Basic Studies

Effective with the Spring 1976 semester, all Basic Studies courses are three credit hours each. Students will pay tuition accordingly.

New courses

01, 02, 03, 04. English for Speakers of Other Languages (3-2-2)

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 will be 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 on areas of special interest or difficulty.

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

Biology

A minimum of forty hours is required for a concentration in biology and environmental science.

New or Revised Courses

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 (1-0-4) (1-0-4)

Prerequisite: Concurrent or previous registration in Biology 101-102.

205. Introduction to Genetics (3-3-0)

Prerequisite: One basic course in the natural sciences or consent of the instructor.

This course deals with the basic concepts of Mendelian genetics; modes of inheritance, nature of mutations, chromosome behavior, and physiological genetics. Some emphasis on human genetics.

213-214. Human Anatomy and Physiology (3-3-0) (3-3-0)

No prerequisites. Taught both semesters.

Comprehensive and systematic 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.

414. Will not be offered Fall 1976 semester.

Program in Parks, Open Space, Recreation and Natural Resource Management

A new program has been set up in Parks, Open Space, Recreation and Natural Resource Management. This program will require a major in Biology and Environmental Science with a minor in Governmental Administration and Urban Planning. The program is designed for students who wish to go into either park and recreational area management, environmental city, county, or regional planning, natural resource management or graduate work in these or associated fields including wildlife and forestry.

All students will complete a major in Biology and Environmental Science. This will include the group of Departmental core courses required of all majors in the Department, plus supporting courses in Plant Taxonomy, Plant Materials for Landscape Use, Landscape Horticulture, Soils, Environmental Conservation, General Ecology, and Departmental electives.

Minor requirements in the Department of Political Science will include a minimum of 18 semester hours, including either American Political Process or State and Local Government. Other major courses will be selected from the following: Introduction to Urban Planning; Planning and Design I and II; Public Administration; Public Personnel Administration; Government Budgeting; Open Space and Recreational Planning.

Supporting course requirements in Mathematics and Chemistry will vary with the interests and goals of the students.

I. Requirements of the Department of Biology and Environmental Science

A. Existing requirements (9+ hours of biology, 8 hours physics)

Biology 101-102 - General Biology (8). The student has the option of counting these as biology electives; Biology 204 - Genetics (3);

Biology 204a - Genetics Lab (1); Biology 307 - Cell Biology; Biology 490 - Seminar (1), A special seminar or practicum for students in this track might be feasible in place of the conventional seminar; Physics 103 or 201 (4); Physics 104 or 202.

B. Altered Departmental Requirements

1. Mathematics requirements may be fulfilled either by Math. 110 - College Algebra (3) and Math 120 - Finite Math (3) *or* Math 130 - Elementary Functions (3) and Math 230 - Calculus and Analytic Geometry (4) *or* Math 120 - Finite Math. (3) and Math 220 - Elementary Statistics (3).
2. Chemistry requirements may be fulfilled by either: Chemistry 121 - General Chem. (3), Chem. 125 - General Chem. Lab (2) and Chem. 122 - General Chem. (3), Chemistry 126 - General Chem. Lab (2) *or* Chem. 103 - Introductory Chem. (3) and Chem. 105 - Introductory Chem. Lab (1) and Chem. 104 - Introductory Chemistry (3) and Chem. 106 - Introductory Chem. Lab (1).

C. Supporting Courses Required for Concentration in Parks, Open Space, Recreation, Natural Resource Administration

1. Biology

Biology 206 - Plant Taxonomy (4); Biology 217 - Plant Materials for Landscape Use (4); Biology 303 - Landscape Horticulture (4); Biology 304 - Soils (4); Biology 306, 306a - Environmental Conservation (4); Biology 407 - General Ecology (4); Biology Electives (8).

2. Political Science (Governmental Administration) minor. This will also satisfy part of the Social Sciences Distribution requirement. The student will complete a **minimum** of 18 semester hours in consultation with his major adviser and an adviser in the Department of Political Science. Either Political Science 100 - American Political Process (3) or Political Science 221 - State and Local Government (3) is required. Fifteen or more hours in Political Science courses will be selected from the following:

Political Science 331 - Introduction to Urban Planning (3); Political Science 335-336 - Planning and Design I and II (6); Political Science 371 - Public Administration (3); Political Science 381 - Public Per-

sonnel Administration (3); Political Science 440 - Planning Administration (3); Political Science 442 - Open Space and Recreational Planning (3).

3. Physical Education (in addition to activities courses required for distribution):

Physical Education 305 - Camping and Recreation (3); Physical Education 308 - Safety and First Aid (3); Physical Education 417 - Organization and Administration of Health, Physical Education and Recreation (3).

4. Psychology (This required course will fulfill a portion of the Social Sciences Distribution Requirement)

Psychology 201, 202 - Principles of Psychology (6).

II. Additional Distribution Requirements required by the College

(One distribution requirement may be waived with the exception of English 101, 102)

English 101, 102 - Composition, Rhetoric, and Literature (6); Foreign Language (0-14); Humanities (6); Physical Education Activities courses (2).

NOTE: A minimum of 124 hours, including 4 hours in Physical Education activities courses, is required for a Bachelor's degree from CNC.

Chemistry

For Chemistry majors: courses in Inorganic Chemistry and/or Biochemistry (Biology 414) may be taken to satisfy credit hour requirements remaining from those specified in the Catalogue.

For Chemistry minors: in general, one course beyond Chemistry 322, Chemistry 326 and Chemistry 490 [Seminar] is required.

For the sample program, Sophomore year, Physics 201-202 should be substituted for Physics 101-102.

For the Sample Program, Junior year, Chemistry 395 or 495 should be substituted for Chemistry 495.

Chemistry 103-104. Introductory Chemistry - will be taught in fall, spring and summer semesters.

Chemistry 105-106. Introductory Chemistry Laboratory - will be taught in fall, spring and summer semesters.

Communications

New Courses

395-1. 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 f/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.

395-2. Library Research and Bibliography (2-2-0)

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.

Economics

New Course

460. Economics of Transportation (3-3-0)

Prerequisites: 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.



English

Freshman English Requirement

English 101-102, 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 educational background as well as career interests and potential major.

New Requirement for English Majors

Beginning with English majors who become sophomores (or transfer to the College as sophomores) in the Fall of 1976, English 205-206 (Survey of World Literature) as well as English 201-202 (British Literature) will be required for the major. Thus, the minimum number of hours of upper level English courses required for the major in English will be twenty-four (rather than thirty). The maximum will still be forty-two.

Changes in the Senior Seminar [English 490]

Beginning with the 1976-77 session, only those students seeking to graduate with Departmental honors will be required to take the oral examination in language and literature given upon completion of this course. They must earn grades of High Pass or Superior on this examination to be considered for such honors.

Beginning with the 1977-78 session, this course, required of all English majors, will be offered **only** in the second (spring) semester of each academic year.

New Freshman English Program

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.

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.

Fine And Performing Arts

Regarding all courses in Applied Music:

With the permission of the Director of Music, advanced students may take one-hour lessons per week for two or three credits per semester. It is expected that a minimum of two hours practice per day will be required for two credits and three hours practice per day will be required for three credits.

Courses in Applied Music require an Applied Music fee of \$98 for a one-credit-hour lesson and \$196 for a two-credit-hour lesson in addition to the regular charge of \$23 per credit hour for in-state students and \$33 for out-of-state students.

New Course

Mixed Chorus (1-0-3)

Eight credits of chorus (increased from four) may be accepted toward graduation.

History

History 341. **The Contemporary World** has been renumbered and will be listed as History 343. **The Contemporary World**.

Humanities

Courses by Newspaper

100. Oceans: Our Continuing Frontier (2-2-0)

Taught in Fall 1976

An examination of the whole range of human involvement with the sea - its impact on art, literature and knowledge of the earth's history and its importance to mankind as a place for work and play, a source of valuable resources and a mainstay of national strength.

100. Moral Choices in Contemporary Society (2-2-0)

Taught Spring 1977

A course that examines the controversial moral dilemmas that perplex modern Americans - dilemmas surrounding such issues as sexual conduct, crime and punishment, political and business ethics, abortion, pornography, science, technology, work and race: the perennial problems of how we are to live.

Courses by Television

101. The Adams Chronicles (3-3-0)

Taught Fall 1976

Between 1750 and 1900, the Adams Family gave the United States its

second and sixth presidents, a vice president, a delegate to the two Continental Congresses, a secretary of state, several ambassadors, and a host of other important figures. The story of this family - which furnishes an entertaining and fascinating social and political history of the United States during that period - has been dramatized in a thirteen-week television series produced by WNET-TV, New York, and will be aired on WHRO-TV during the fall of 1976, beginning September 20.

101. Classic Theatre: The Humanities in Drama (3-3-0)

Taught Spring 1977.

This series features 13 plays performed especially for television by London's foremost theatre companies. Each performance is accompanied by a "preview" which provides background on the play's author and historical setting, in addition to comments by eminent scholars and actors. The series was funded by the National Endowment for the Humanities and Mobil Oil and was produced by WGBH-TV, Boston, and will be shown on WHRO-TV, beginning in February. The plays include **Macbeth**, by William Shakespeare; **Edward II** by Christopher Marlowe; **The Duchess of Malfi** by John Webster; **Paradise Restored**, dramatization by Don Taylor; **She Stoops to Conquer** by Oliver Goldsmith; **The Rivals** by Richard Brinsley Sheridan; **Candide** by Voltaire; **The Wild Duck** and **Hedda Gabler** by Henrik Ibsen; **Trelawny of the Wells** by Arthur Wing Pinero; **The Three Sisters** by Anton Chekov; **The Playboy of the Western World** by John Millington Synge; and **Mrs. Warren's Profession** by George Bernard Shaw.

101. The Romantic Rebellion (3-3-0)

Taught Spring 1977.

Two hundred years between 1720 and 1920 marked the most turbulent period of change in the history of painting - a complete artistic revolution which brilliantly mirrored the sweeping changes taking place in all aspects of human society. The Romantic Rebellion, written and narrated by Kenneth Clark, allows us to see this vivid age through the eyes of its greatest painters. In fifteen segments, Lord Clark probes the minds, methods and motivations of thirteen Classic and Romantic artists to lay bare the mental, emotional, social and artistic climate of one of the most fascinating periods of history.

All of the above courses are designed as home study courses with textbooks and study guides. Students are assisted in understanding the materials by class discussions held at approximately one month intervals.

250. Studies Abroad in the Humanities (1-6 credits)

A course in the humanities dealing with one or more disciplines in the area, e.g., literature, drama, art, music, history, foreign language, and civilization. Topics, credit and prerequisites to vary, subject to Division approval. The course is designed to acquaint the student with cultures other than his own, and to assist him in acquiring first-hand experience of foreign nations. The course will be offered in Spring or Summer sessions.

Management, Marketing and Retailing

New Courses

315. Principles of Transportation (3-3-0)

Prerequisites: M.M.R. 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.

415. Traffic Management [Transportation]: Practices and Procedures (3-3-0)

Prerequisites: M.M.R. 315, 324, Math 220, 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.

416. Transportation Regulation and Law (3-3-0)

Prerequisite: M.M.R. 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.

325. Small Business Management (3-3-0)

Prerequisites: 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.

Mathematics

New	Old	Title
125	220	Elementary Statistics
140	230	Calculus and Analytic Geometry
250	330	Multivariable Calculus
260	310	Linear Algebra
370	410	Abstract Algebra
440	340	Advanced Vector Calculus

If a student is taking a mathematics course to satisfy a distribution requirement or a requirement in his or her major, he or she should take the course with the new number corresponding to the requirement.

A student may apply any number of semester credits of the new 100-level courses toward any degree.

New Courses

380. Numerical Analysis (3-3-0-)

Prerequisite: Math 240 and 260; Computer Science 250 or equivalent. Taught Fall semester.

A survey of numerical methods for 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, Deterministic Models (3-3-0)

Prerequisites: Math 240, 250, and 260. Taught Fall semester.

Mathematical theory and techniques including: convex sets and functions; linear programming including the simplex method; duality theory; transportation and assignment problems; and dynamic programming.

400. Mathematical Methods of Operations Research. Stochastic Models (3-3-0)

Prerequisite: Math 390 and 360; or permission of the instructor. Taught every other spring.

Mathematical theory and techniques such as: elements of probability theory; queuing theory; inventory control; decision analysis; and Markov chains.

470. Applied Modern Algebra (3-3-0-)

Prerequisite: Math 370. Taught every other fall.

An introduction to applications of algebra and discrete mathematics to machine and systems theory. Set and graph theory, semigroups, finite state machines, boolean operations, turning machines, machine homomorphisms and decompositions, circuit optimization, and machine products.

Changes in requirements for major concentration in mathematics:

A major concentration in mathematics requires satisfactory completion of Mathematics 250, 260, 360, and 370; one of Mathematics 400, 470, or another 400 level course approved in advance by the Department; and at least nine additional credits in courses above the 200 level in this department. Moreover, a mathematics major must follow one of these three plans: (1) Three 300 or 400 level courses in mathematics in addition to the basic 24 credits stated above; (2) A collegiate Professional Certificate in secondary teaching of mathematics; or (3) Three 300 or 400 level courses in another discipline chosen by the student in consultation with his or her adviser. Acceptable disciplines are Physics, Computer Science, Chemistry, or Biology. All other disciplines must be approved in advance by the Department.

The Mathematics Department recommends that all students who entered CNC prior to the Fall 1976 semester satisfy the new requirements for a major in mathematics. Those students enrolled before the Fall 1976 semester who elect to satisfy the old requirements may use one of the following options to satisfy the old Mathematics 340 and 410 requirements:

December 1976 graduates: Math 410 and Math 360 (Math 360 offered in the Fall 1976).

June 1977 and August 1977 graduates: Math 440 (offered on demand during the Fall 1976 semester as a reading course) and Math 370 (offered during the Spring 1977 semester).

All others: Math 360, Math 370 and a 400 level course or Math 340 and Math 370.

Military Science [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.

Students who complete this program may, upon graduation from the College, be commissioned as Second Lieutenants in the United States Army Reserve. Students should refer to the current catalogue from the College of William and Mary for more detailed information about the Reserve Officer's Training Corps.

Requirements for Commissioning

4 year program:

- (1) Completion of all Military Science courses listed in this catalogue.
- (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 year a cadet must attend ROTC Basic Camp for 6 weeks.
- (2) During the Junior and Senior year a cadet must take MS 301, 302, 401 and 402.
- (3) Between the Junior and Senior year a cadet must attend a 6 week ROTC Advanced Camp.

Description of Courses

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 out-doors 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 participating 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 III (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 course 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.

Physical Education

Each semester physical education activities course will be increased to two credits each. The Physical Education distribution requirement for graduation has been correspondingly increased from two to four credits.

Karate is now listed as P. E. 197.

The physical education department will offer Lacrosse (P. E. 176) beginning with the Fall, 1976 semester.

Physics

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.

New Courses

121-122. Introduction to Engineering and Technology (2-2-0)

Prerequisites: 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 the library programs in other computer languages in the solution of engineering models.

209. 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 adviser.

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.

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 adviser.

Modern Physics 351 and 352 will be changed from (2-2-0) to (3-3-0).

Political Science

For the Urban Planning Specialty the pre-service student should select a minimum of eight courses, including Political Science 461 and the six (changed from four) courses with an asterisk: Political Science 331*, 334*, 335*, 336*, 337*, 361, 371, 391, 440*, 468, 490, 491, 495, and 499.

New Course

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 challenge 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.

Psychology

Effective Fall 1976, **Principles of Psychology 201-202** will be taught as a one-semester course. The course will be redesignated **Principles of Psychology 201**. The new one-semester course does not substitute for the previous two semesters of **Principles of Psychology 201-202**.

Renumbered Courses

Course	Changed to:
Psychology 231. Statistical Application in Social Science Research	Psychology 321
Psychology 306. Introduction to Test Measurements	Psychology 410
Psychology 340. Group Processes	Psychology 440

New Course

420. Human Sexuality (3-3-0)

Prerequisites: Psychology 201 or consent of instructor.

Biological, psychological, and social aspects of human sexual behavior throughout the life span.



Sociology

Course Changes

Sociology 421. **Social Theory** is now Sociology 310. **Social Theory** and is required for the major (and minor) and as a prerequisite for Sociology 490. **Senior Seminar**.

Sociology 399-400. **Social Work Practice I & II** and Sociology 401-402. **Field Placement I & II** are now Social Work 399-400. **Social Work Practice I & II** and Social Work 401-402. **Social Work Field Placement I & II**. (Social Work 401-402 will increase to 4 hour courses.)

Sociology 367. **The Social Welfare Institution**, Sociology 368. **Community Organization**, and Sociology 391-392. **Methods and Tools of Social Research I & II** are also designated Sociology/Social Work 367. **The Social Welfare Institution**, Sociology/Social Work 368. **Community Organization** and Sociology/Social Work 391-392. **Methods and Tools of Social Research**.

Sociology 491. **Readings in Sociology** (3-3-0) is now Sociology 492. **Readings in Sociology** (3-3-0).

New Courses

300. Introduction to Social Work (3-3-0)

Prerequisites: 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.

393. Social Science Statistics Lab (1-0-1)

Prerequisites: 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.

414. Case Studies and Decision-Making Simulations in Organizations (3-3-0)

Prerequisites: 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.

430. Social Movements (3-3-0)

Prerequisites: 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.

491. Practicum in Sociology (3-3-0)

Prerequisites: 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.

Program Changes:

a) Required for a Major in Sociology are:

A minimum of thirty-three hours in Sociology (including twenty-four hours above the 200 level with at least 6 hours at the 400 level).

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 students choosing the Social Work Certificate Concentration) or Sociology 499. **Independent Research or Research Internship**.

b) Required for a Minor in Sociology are:

A minimum of eighteen hours in Sociology (including twelve hours above the 200 level with at least 3 hours at the 400 level).

Sociology 310. **Social Theory**.

Some proficiency with research methods or statistics.

Sociology 490. **Senior Seminar** will no longer be required.

c) The Correction Concentration will become the Criminology Concentration with the following requirements:

Sociology 321. **Sociology of Crime**, Sociology 324. **Juvenile Delinquency**, Sociology 411. **Sociology of Corrections**.

One of the following four courses: Sociology 319. **Deviant Behavior**, Sociology 499. **Independent Research**, Sociology 495. **Sociology of Law** (to be offered Spring, 1977), Sociology 491. **Practicum in Sociology**.

One of the following two courses: Political Science 342. **Crime Control and Community Relations**, Political Science 346. **Politics of Criminal Justice Administration**.

These changes are directed at broadening the theoretical and general emphasis of the correction concentration. The criminology concentration emphasizes the nature and causes of crime and delinquency, an analysis of corrections, and a basic coverage of the criminal justice system. The background provided by the concentration will be beneficial to one interested in continuing his education on law or graduate school in addition to one's role as a concerned, participating citizen.

d) The Manpower Administration Concentration has been deleted.

e) Required for the Research and Program Evaluation Concentration:

Sociology 361. **Population Analysis**, 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 367. **Community Organization**.

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.

f) Required for the Social Work Certificate Concentration:

The Certificate in Social Work requires thirty-three hours in Social Work and three hours in Political Science. The concentration requirements are:

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**.

Political Science 363. **Law and Public Policy** (other courses emphasizing social policy may be substituted with the approval of the Director of Social Work).

Social Work 399-400. **Social Work Practice**, Social Work 401-402. **Social Work Field Placement**, Social Work 490. **Senior Seminar**.

Social Work 495 I & II, **Human Behavior and the Social Environment** (2-2-0) (2-2-0). This 2 semester course will be offered as a topic course for the fall and spring semester - 1976-77 and will have the prerequisites of Sociology 304. **Socialization and Society** and Psychology 307. **Developmental Psychology**.

