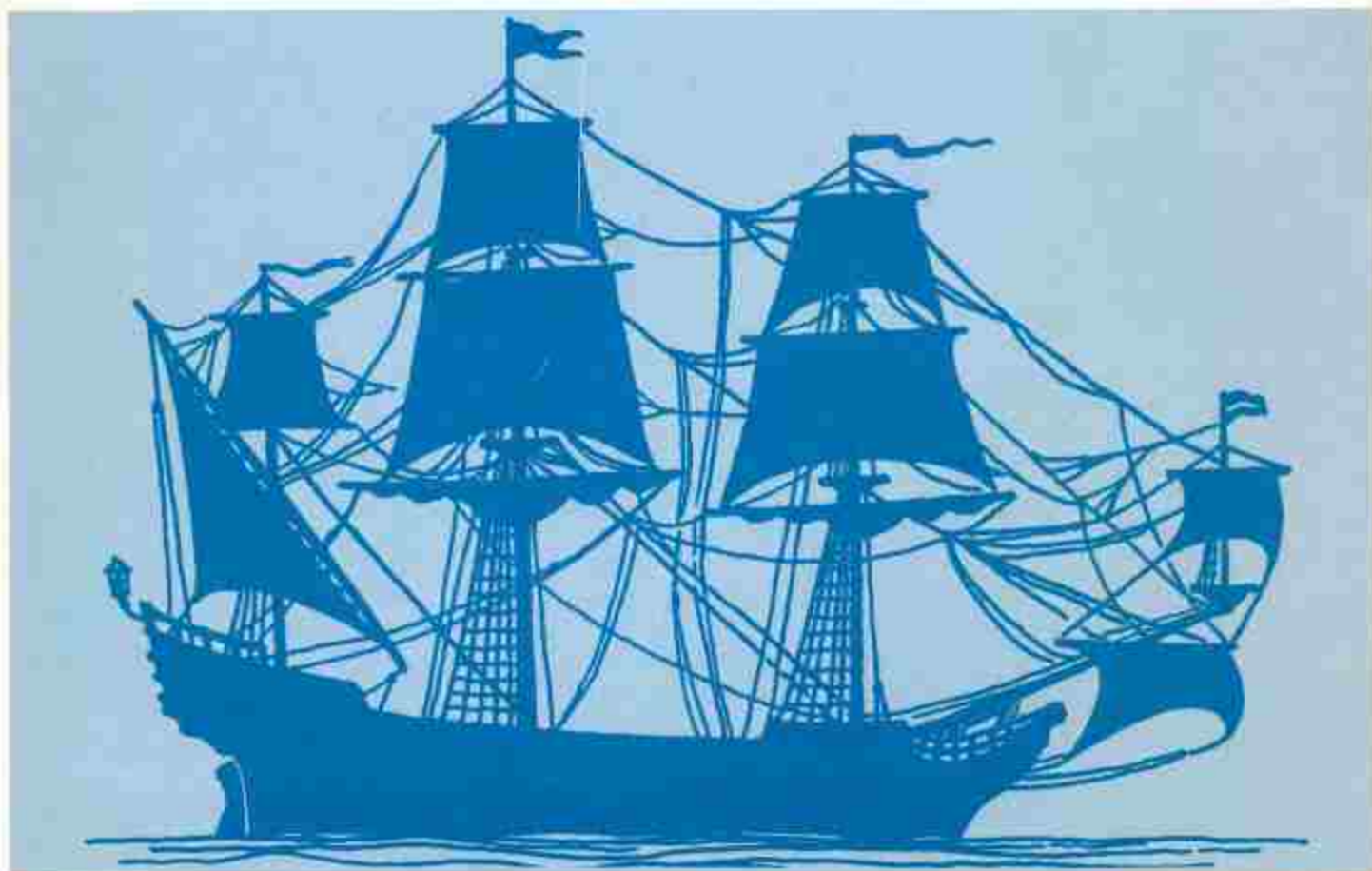


CHRISTOPHER NEWPORT COLLEGE 1975-1977





The Christopher Newport College of the College of William and Mary in Virginia

Announcements

Session 1975-76

Session 1976-77

Newport News, Virginia

College Address: Christopher Newport College
P. O. Box 6070
Newport News, Virginia 23606

College Telephone: Area Code 804-599-7000

The College is located on Shoe Lane in
Newport News, Virginia

Vol. 15, No. 1

April, 1975



Contents

	<i>Page</i>
College Calendar	1
Officers of the College	3
Board of Visitors	3
Officers of Administration	3
Faculty	5
About the College	9
History	9
Aims and Purposes	9
Accreditation	9
The College Buildings	10
Admission to the College	12
Fees and Expenses	17
Financial Assistance	19
Student Life	24
Academic Policies and College Regulations	28
Requirements for Degrees	34
Courses of Instruction	43
Division of Arts and Letters	43
Division of Social and Behavioral Sciences	66
Division of Natural and Quantitative Sciences	78
Division of Business and Economics	90
Division of Education and Communications	99
Index	106

Christopher Newport College Calendar

1975	First Semester
August 25	Faculty Workshop (Monday)
August 26	Orientation for Freshmen and New Transfers (Tuesday)
August 27-28	Registration Period (Wednesday-Thursday)
September 1	Labor Day: College Closed (Monday)
September 2	Beginning of Classes: 8:00 A.M. (Tuesday)
September 8	Last Day of Add/Drop Period; Last Day for Late Registration (Monday)
September 19	Last Day for Refunds: All students (Friday)
October 17	Last Day for Dropping a Class without a Penalty of Failing Grade (Friday)
October 17	Freshmen Mid-Semester Grade Reports Filed with Registrar: 12 noon (Friday)
October 17	Last Day for December Graduates to File Intent to Graduate with Registrar (Friday)
October 31	Last Day for Withdrawing from College without Grade Notation WP or WF (Friday)
November 26	Beginning of Thanksgiving Holiday: 10:00 P.M. (Wednesday)
December 1	End of Thanksgiving Holiday 8:00 A.M. (Monday)
December 2-8	Early Registration for Second Semester (Tuesday-Monday)
December 11	Last Day for All Classes 10:00 P.M. (Monday)
December 13-18	Final Examination Period (Saturday-Thursday)
December 21	Commencement (Sunday)
January 2	Final Semester Grade Reports Filed with Registrar 5:00 P.M. (Friday)
1976	Second Semester
January 13	Orientation of New Students (Tuesday)
January 14-15	Registration Period (Wednesday-Thursday)
January 19	Beginning of Classes 8:00 A.M. (Monday)
January 23	Last Day of Add/Drop Period and Late Registration (Friday)
February 6	Last Day for Refunds for All Students (Friday)
March 1	Last Day for May Graduates to File Intent to Graduate with Registrar (Monday)
March 5	Last Day for Dropping a Class without a Penalty of Failing Grade (Friday)
March 5	Freshmen Mid-Semester Grade Reports Filed with Registrar 12 noon (Friday)
March 5	Beginning of Spring Recess 5:00 P.M. (Friday)
March 15	End of Spring Recess: 8:00 A.M. (Monday)
March 19	Last Day for Withdrawing from College without Grade Notation of WP or WF (Monday)
April 5-9	Early Registration for Fall Semester
April 26	Last Day for August Graduates to File Intent to Graduate with Registrar (Monday)
April 30	End of All Classes 5:00 (Friday)
May 3-11	Final Examination Period (Monday-Tuesday)
May 16	Commencement (Sunday)

1976	Summer Session
May 31	Summer School Registration (Monday)
June 2	Classes Begin (Wednesday)
August 5	Close of Summer Session (Thursday)
August 7	Commencement (Saturday)
1976	First Semester
August 25-26	Registration Period (Wednesday-Thursday)
August 30	Beginning of Classes: 8:00 A.M. (Monday)
September 3	Last Day of Add/Drop Period and Late Registration (Friday)
September 6	Labor Day: College Closed (Monday)
October 15	Last Day for Dropping a Class Without a Penalty of Failing Grade (Friday)
October 29	Deadline for Withdrawing from College Without Grade Notation of WP or WF (Friday)
November 25-26	Thanksgiving Holiday (Thursday-Friday)
December 10	End of All Classes (Friday)
December 13-18	December 13-18 Examination Period (Monday-Saturday)
December 19	Commencement (Sunday)
1977	Second Semester
January 12-13	Registration Period (Wednesday-Thursday)
January 17	Beginning of Classes (Monday)
January 21	Last Day of Add/Drop Period and Late Registration (Friday)
February 4	Last Day for Refunds (Friday)
March 4	Last Day for Dropping a Class Without a Penalty of Failing Grade (Friday)
March 7-11	Spring Recess (Monday-Friday)
March 18	Deadline for Withdrawing from College Without Grade Notation of WP or WF (Friday)
April 29	End of All Classes: 5:00 P.M. (Friday)
May 2-10	Examination Period (Monday-Tuesday)
	Commencement (Sunday)

The above calendar is in abbreviated form. The full session calendar for 1976-77 will be printed in the catalogue supplement.



Officers of the College

Board of Visitors

R. Harvey Chappell, Jr.	.....	Rector
John R. L. Johnson, Jr.	.....	Vice Rector
Mrs. George Falck	.....	Secretary

Term expires March 6, 1976

Willits H. Bowditch	.....	Yorktown, Va.
R. Harvey Chappell, Jr.	.....	Richmond, Va.
Robert J. Faulconer	.....	Norfolk, Va.
William S. Hubard	.....	Roanoke, Va.
James E. Kilbourne	.....	Petersburg, Va.
Mrs. Victor Powell	.....	Annandale, Va.
John W. Hanes, Jr.	.....	Great Falls, Va.

Term expires March 6, 1978

John Bruce Bredin	.....	Greenville, Del.
Mrs. Carter C. Chinnis	.....	Alexandria, Va.
T. C. Clarke	.....	Norfolk, Va.
Dr. Garrett Dalton	.....	Radford, Va.
Frederick Deane, Jr.	.....	Richmond, Va.
Mrs. George Falck	.....	McLean, Va.
John R. L. Johnson, Jr.	.....	Chaddsford, Pa.
Miss Anne Dobic Peebles	.....	Carson, Va.
Dr. George Sands	.....	Williamsburg, Va.
J. E. Zollinger	.....	Fort Lauderdale, Fla.

The College of William and Mary

Officers of Administration

President	.....	Thomas A. Graves, Jr.
Vice President for Academic Affairs	.....	George R. Healy

Christopher Newport College

President's Advisory Council

Franklin O. Blechman	.....	Newport News, Va.
Harrol A. Brauer, Jr.	.....	Hampton, Va.
F. Hunter Creech	.....	Newport News, Va.
Dr. John Duberg	.....	Hampton, Va.
Dr. David G. Fluharty, Jr.	.....	Newport News, Va.
Mrs. Mary C. Hastings	.....	Hampton, Va.
Dr. Joseph H. Lyles	.....	Hampton, Va.
E. J. King Mechan	.....	Newport News, Va.
Mrs. A. O. Mitchell	.....	Newport News, Va.
Harry H. Wason	.....	Newport News, Va.
William Wilkinson	.....	Newport News, Va.
Y. B. Williams	.....	Newport News, Va.

Officers of Administration

President	James C. Windsor
Dean of Academic Affairs	Thomas J. Musial
Associate Dean of Academic Affairs	Robert J. Edwards
Assistant Dean of Academic Affairs	
Director of Continuing Studies	
Director of the Summer School	Lawrence Barron Wood, Jr.
Registrar	Brenda Blount
Assistant Registrar	Vivian Johnson
Librarian	Bette V. Mosteller
Assistant Librarian	Nan Eddins
Business Manager	Calvin Hones
Agency Personnel Supervisor	Elizabeth P. Welch
Business Office Manager	Edna Appleton
Cashier	Esther Beazley
Purchasing Contracting Supervisor	Alice Green
Buildings and Grounds Supervisor	Mike Cazares
College Shop Manager	Jackie Haskins
Dean of Student Affairs	William H. Polis
Director of Counseling Center	Robert W. Wildblood
Counselor	Bonnie Hansen
Counselor	Glen Vought
Director of Placement and Public Relations	Richard E. McMurran
Director of Financial Aid	O. C. Ward
Director of the Campus Center	John J. Sullivan

Dean of Admissions	Keith F. McLoughland
Assistant Dean of Admissions	Mary F. Hardman

Director of Computer Services and Institutional Studies	E. Michael Stamen
Director of Inter-Collegiate Athletics	R. Beverley Vaughan, Jr.
Consulting Psychiatrist	T. J. Lassen, M.D.

Faculty Administrative Officers

Division of Arts and Letters

Division Coordinator	Walter L. Knorr
Chairman, Department of Classical Studies	Elizabeth F. Jones
Chairman, Department of English	Ross C. Brackney
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	St. Elmo Nauman

Division of Natural and Quantitative Sciences

Division Coordinator	Chie Ken Chang
Chairman, Department of Biology and Environmental Sciences	David Banks
Chairman, Department of Chemistry	Lawrence J. Sacks
Chairman, Department of Computer Science	Hugh C. Hilliard, Jr.
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

Division Coordinator	Ruth L. Kernodle
Chairman, Department of Anthropology	Ruth L. Kernodle
Chairman, Department of Political Science	James I. Moore
Chairman, Department of Psychology	Ruth K. Mulliken
Chairman, Department of Sociology	Robert J. Durel

Division of Business and Economics

Division Coordinator	Donald B. Riley
Chairman, Department of Accounting and Finance	Mary Ann Swindlehurst
Chairman, Department of Management, Marketing, and Retailing	Edwin C. Boyd
Chairman, Department of Economics	Vinod P. Maniyar

Division of Education and Communications

Division Coordinator	Elizabeth Anne Daly
Chairman, Department of Basic Studies	Alice F. Randall
Chairman, Department of Education	John E. Jenkins
Chairman, Department of Military Science	Elizabeth Anne Daly
Chairman, Department of Physical Education	James N. Hubbard, III

Faculty

Sue Gray Norton Al-Salam. <i>Assistant Professor of Physics.</i> B.A., Wellesley College; M.A., University of California at Berkeley; M.A. College of William and Mary.
Jack Martin Armistead. <i>Assistant Professor of Physical Education.</i> B.A., Appalachian State University; M.Ed., The College of William and Mary.
John Joseph Avioli. <i>Assistant Professor of Mathematics.</i> B.S., West Chester State College; M.S. and Ph.D., University of Delaware.
David Allen Banks. <i>Associate Professor of Biology and Environmental Science.</i> B.S., University of Delaware; M.S. and Ph.D., The Ohio State University.
Franklin Samuel Bauer. <i>Associate Professor of Psychology.</i> B.A., M.A., and Ph.D., University of Illinois.
Henry Marshall Booker. <i>Professor of Economics.</i> B.A., Lynchburg College; Ph.D., University of Virginia.
Theodora Pierdos Bostick. <i>Associate Professor of History.</i> B.A., Mundelein College; M.A. and Ph.D., University of Illinois.
Edwin Cannon Boyd. <i>Associate Professor of Management.</i> A.B., Duke University; M.B.A., Wharton School of Finance and Commerce, University of Pennsylvania.
Ross Clyde Brackney. <i>Professor of English.</i> A.A., St. Bernard College; A.B., St. Benedict's College; M.A., University of Notre Dame; Certificate, University of London; Ph.D., Stanford University.
Daisy Davis Bright. <i>Associate Professor of Mathematics.</i> A.B. and M.A., University of Alabama.
Marvin Miller Brown. <i>Assistant Professor of Retailing.</i> B.S., Virginia Commonwealth University; M.S., Virginia Polytechnic Institute.
Alfred Martin Buoncristiani. <i>Associate Professor of Physics.</i> B.S., University of Santa Clara; Ph.D. University of Notre Dame.
Jane Chambers. <i>Associate Professor of English.</i> B.A., Pfeiffer College; M.A., University of Arkansas.
Chie Ken Chang. <i>Assistant Professor of Chemistry.</i> B.S., Taiwan University; Ph.D., University of Notre Dame.
Walter Robert Collins. <i>Assistant Professor of Mathematics.</i> B.S. and M.A., Boston College; Ph.D., University of Massachusetts.
Carl Morgan Colonna. <i>Assistant Professor of Economics.</i> B.B.A. and M.A., Old Dominion University.
Harold Nelson Cones, Jr. <i>Assistant Professor of Biology and Environmental Science.</i> B.S., Maryville College; M.A., Virginia Institute of Marine Science, The College of William and Mary; Ph.D. candidate, Bowling Green State University.
Elizabeth Anne Daly. <i>Assistant Professor of Education.</i> B.A., Suffolk University; Ed.M., Boston University; Ed.D., The College of William and Mary.

Robert Dale Doane. *Assistant Professor of Political Science*. B.A., Lynchburg College; M.A., George Washington University; Ph.D., Temple University.

Lee Erwin Doerries. *Assistant Professor of Psychology*. B.A. and M.A., The College of William and Mary; Ph.D., University of Rhode Island.

Philbert C. Doleac. *Assistant Professor of Management*. B.B.A., Loyola University of the South; M.B.A., Syracuse University.

David Edward Dooley. *Assistant Professor of Psychology*. B.A., Tampa University; M.S., Illinois State University.

Robert John Durel. *Assistant Professor of Sociology*. A.A., St. Joseph Seminary; B.A., Notre Dame Seminary; M.A. and Ph.D., University of Notre Dame.

Robert Johnson Edwards. *Associate Professor of Biology and Environmental Science*. B.S., Hobart College; Ph.D., University of Rochester.

Stan Fedyszyn. *Assistant Professor of Theatre Arts*. B.S., Syracuse University; M.A., Baylor University.

Ronald R. Fennell. *Assistant Professor of Sociology*. B.S., Shippensburg State College; M.S.W., University of Maryland.

Jerry William Ferry. *Instructor of Marketing*. B.S.E.E., Northwestern University; M.B.A., Columbia University.

Charlotte Diane Fitzgerald. *Instructor in Sociology*. B.A., Hampton Institute; M.A., University of Virginia.

Jon Barry Freiden. *Assistant Professor of Marketing*. B.S. and M.A., University of Missouri; Ph.D. candidate, University of Oklahoma.

Lora R. Friedman. *Associate Professor of Education*. B.S. and M.A., C.C.N.Y.; Ed. D., University of Florida.

John Richard Guthrie, Jr. *Assistant Professor of Modern Foreign Languages and Literatures*. A.B., The College of William and Mary; M.A., Middlebury College Graduate School of French in France; Ph.D. candidate, University of North Carolina.

Gary G. Hammer. *Professor of Chemistry*. B.S. and M.S., Wichita State University; Ph.D., Georgia Institute of Technology.

John T. Harwood. *Assistant Professor of Basic Studies/Writing*. B.A., Warburg College; Ph.D. candidate, University of Nebraska.

Joseph Francis Healey. *Assistant Professor of Sociology*. A.B. and M.A., The College of William and Mary; Ph.D. candidate, University of Virginia.

Robert W. Herrmann. *Assistant 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 Studies*. B.S., Virginia Polytechnic Institute; M.S., Harvard University.

John Arthur Hoaglund. *Assistant Professor of Philosophy*. Ph.D., Free University of Berlin.

Bruce Carl Hoiherg. *Assistant Professor of Psychology*. B.A. and M.A., University of Nebraska; Ph.D., University of Connecticut, Storrs.

James Nimmo Hubbard, III. *Associate Professor of Physical Education*. B.S. and M.Ed., The College of William and Mary.

Rita Cooper Hubbard. *Assistant Professor of Speech and Theatre Arts*. B.A., College of Notre Dame of Maryland; M.A., The John Hopkins University.

John E. Jenkins. *Assistant Professor of Education*. A.B., University of Richmond; M.Ed., The College of William and Mary.

Elizabeth F. Jones. *Associate Professor of Classical Studies*. A.B., State University of New York at Albany; Ph.D., University of North Carolina.

Ruth L. Kernodle. *Associate Professor of Sociology*. B.A., Madison College; M.A., University of North Carolina.

Paul C. Killam. *Associate Professor of Political Science*. B.S., M.A., and Ph.D., University of Massachusetts; M.C.P., Yale University.

David Wesley King. *Assistant Professor of Modern Foreign Languages and Literatures*. B.S., Georgia Southern College; M.A., Laval University.

Kenneth E. Kirby. *Assistant Professor of Sociology*. B.A., Washington and Jefferson College; M.A., The College of William and Mary.

Walter Lee Knorr. *Assistant Professor of Modern Foreign Languages and Literatures*. B.A., Yale University; M.A. and Ph.D., Cornell University.

Stavroula E. Kostaki. *Instructor in Basic Studies/Mathematics*. A.A., Warren Wilson College; B.A., University of North Carolina; M.A., Western Carolina University; Ph.D. candidate, University of North Carolina (Greensboro).

David Joseph Kowarsky. *Assistant Professor of Finance*. B.S. and M.B.A., University of Connecticut, Storrs.

Robert E. Kraft. *Assistant Professor of Physical Education*. B.A., Trenton State College; M.Ed., Pennsylvania State University; Ed.D., Syracuse University.

Sanford Edward Lopater. *Assistant Professor of Psychology*. B.A., Miami University; Ph.D., University of Virginia.

Allan Burnam MacLeod. *Assistant Professor of English*. B.A., Rollins College; M.A., University of Arizona; Ph.D. candidate, University of Missouri.

Vinod P. Maniyar. *Associate Professor of Economics*. B.A. and M.A., Gujarat University; Ph.D., Wayne State University.

Aletha S. 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.

Mario D. Mazzarella. *Assistant Professor of History*. A.B., Providence College; M.A., University of Rhode Island; Ph.D. candidate, American University.

Albert Edward Millar, Jr. *Associate Professor of English*. B.A., University of Richmond; M.A., University of South Carolina; Ph.D., University of Delaware.

Ronald Samuel Mollick. *Assistant Professor of Biology and Environmental Science*. B.S. and M.S., San Diego State College.

James I. Moore. *Associate Professor of Political Science*. B.S., Naval Postgraduate School; M.A.P.A. and Ph.D., University of Oklahoma.

Timothy Everett Morgan. *Assistant Professor of History*. B.S. and M.A., Purdue University; Ph.D. candidate, The College of William and Mary.

James Matthew Morris. *Associate Professor of History*. A.B., Aquinas College; M.A., Central Michigan University; Ph.D., University of Cincinnati.

Ruth Kinney Mulliken. *Professor of Psychology*. B.S. and M.A., New York University; Ph.D., University of Utah.

Thomas James Musial. *Associate Professor of English*. A.B. and Ph.D., University of Notre Dame; M.S., University of Wisconsin.

Leonard B. Nason. *Associate Professor of Computer Studies*. B.S., University of Oklahoma; M.S., Stanford University.

St. Elmo Nauman, Jr. *Associate Professor of Philosophy*. B.A., University of Chicago; B.D., Berkeley Divinity School; Ph.D., Boston University.

Lee C. Olson. *Associate Professor of Biology and Environmental Science*. B.S., South Dakota State University; M.S. and Ph.D., University of Wisconsin.

William Parks. *Assistant Professor of History*. B.S. and M.A., Old Dominion University; Ph.D., The College of William and Mary.

Leah B. Pellett. *Assistant Professor of Sociology*. B.A. and M.A., The College of William and Mary.

Ronald Lee Persky. *Assistant Professor of Mathematics*. B.S., Purdue University; M.A., University of Cincinnati.

Fred S. Polazzo. *Assistant Professor of Accounting*. B.A., Queens College; M.B.A., The University of Michigan. C.P.A. (Ohio).

John Wolf Prow. *Assistant Professor of Geography*. B.A., University of Maryland; M.A., The College of William and Mary.

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/Reading*. A.B., George Washington University; M.Ed., The College of William and Mary.

D. Doris Reppen. *Associate Professor of Modern Foreign Languages and Literatures*. B.A., University of Buenos Aires; M.A., University of California at Berkeley.

Donald Bennett Riley. *Associate Professor of Accounting*. B.S., The College of William and Mary; M.B.A., University of North Carolina; C.P.A. (Virginia).

Mary Luella Royall. *Assistant Professor of Physical Education*. B.S., Madison College.

Lawrence J. Sacks. *Professor of Chemistry*. A.B., Drew University; M.S., The Pennsylvania State University; Ph.D., University of Illinois.

Joyce K. Sancetta. *Professor of English*. B.A., College of Wooster; Ph.D., Yale University.

Wallace Stephen Sanderlin, Jr. *Professor of English*. A.B., The College of William and Mary; M.A., Catholic University; Ph.D., University of Virginia.

Robert Miller Saunders. *Associate Professor of History*. B.A. and M.A., University of Richmond; Ph.D., University of Virginia.

Christopher D. Scheiderer. *Assistant Professor of Modern Foreign Languages and Literatures*. B.A. and M.A., Ohio State University; Ph.D. candidate, University of Maryland.

John Robert Scotti. *Instructor in English*. B.A., S.U.N.Y., Stony Brook; M.A., University of Delaware.

Lillian Jean Seats. *Associate Professor of Physical Education*. B.S. and M.S., Indiana University.

Gail Joan Sellstrom. *Assistant Professor of Psychology*. B.A., Sacramento State College; M.A., University of Illinois; Ph.D., Michigan State University.

Imogene L. Simmons. *Assistant Professor of Sociology*. B.A., Manhattan Bible College; M.A., Kansas State University; Ph.D. candidate, University of Missouri.

Ruth O. 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.

Joanne S. Squires. *Professor of Psychology*. B.S., Ohio University; M.S. and Ph.D., University of Pittsburgh.

Susan S. St. Onge. *Assistant Professor of Modern Foreign Languages and Literatures*. B.A., Vanderbilt University; M.A., University of Wisconsin; Ph.D., Vanderbilt University.

Mary Ann Swindlehurst. *Assistant Professor of Accounting*. B.B.A. and M.P.A., University of Texas at Arlington; C.P.A. (Texas).

Mary MacDonald Thompson. *Instructor in Music*. B. A., Erskine College; M.M., University of Cincinnati.

Stuart C. Van Orden. *Associate Professor of Art*. B.A., Southwestern University; M.F.A., Cornell University; Ph.D., Syracuse University.

R. Beverley Vaughan. *Assistant Professor of Physical Education*. B.S. and M.Ed., The College of William and Mary.

Gary Steven Vazzana. *Assistant Professor of Management*. B.A. and M.B.A., University of Missouri.

George Randolph Webb. *Associate 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.

Robert William Wildblood. *Assistant Professor of Psychology*. B.S., M.S., and Ph.D., Purdue University.

Cecil Harvey Williams, Jr. *Associate Professor of Political Science*. A.B., Duke University; B.D., Crozer Theological Seminary; M.A., University of Virginia.

James Clayton Windsor. *Associate Professor of Psychology*. B.A., The College of William and Mary; M.Div., Colgate Rochester Divinity School; M.S., Virginia Commonwealth University; Ed.D., University of Virginia.

William Charles Winter. *Assistant Professor of Political Science*. B.S., State University of New York; M.A., and Ph.D. candidate, 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.

Lawrence Barron Wood, Jr. *Associate Professor of English*. A.B., Hampden-Sidney College; M.A., University of Pennsylvania.

Professor Emeritus

Richard Hunter Lawson. *Associate Professor of Mathematics*. B.S., United States Military Academy; M.A., Duke University.



8/Faculty of the College

About the College

History

The Christopher Newport College of the College of William and Mary was established and duly authorized by the General Assembly of Virginia in its 1960 session. 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—the *Discovery*, the *Godspeed*, and the *Susan Constant*—which made the historic voyage culminating with the landing at Jamestown in 1607. It is appropriate that an institution of higher learning located in such an historic setting should derive its name from one who contributed so much to the early history and survival of the area.

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 the College of William and Mary, 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 students in September, 1961, at its initial home, a former public school building 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 six other buildings to its campus: two other classroom buildings, a library-administration building, a campus center, a gymnasium, and a greenhouse. In the early years of the College, enrollment increased dramatically, so by the fall of 1974, 2,660 students were enrolled. The College currently awards six different degrees in fifteen areas of study, including biology and environmental science, business administration and economics, chemistry, elementary education, English, French, German, governmental administration, history, management information science, mathematics, philosophy, political science, psychology, sociology, Spanish, and theatre arts. 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. The current academic organization of the College is based upon specialized departments within five academic divisions, and the organization of this catalogue reflects the academic structure of the College.

Aims and Purposes

Christopher Newport College is a four-year, comprehensive, urban college, offering undergraduate educational programs designed to serve the large metropolitan area of Hampton, Newport News, York County, and James City County. 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.

Christopher Newport College is committed to teaching, research, and service. The predominant emphasis is on providing quality instruction. Research is carried on in areas of Faculty interest and competence as required by and as a necessary complement to their teaching. 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 multiple-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. The College principally serves a local student body, it utilizes the community as an instructional resource, it brings its instructional programs to bear upon the life of the area, and it utilizes the cooperation and professional talent of those who reside on the Peninsula.

The College is organized and instruction is provided to take into consideration the life-long learning needs of a largely part-time, 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.

Accreditation

As a legally constituted branch of the College of William and Mary, Christopher Newport College was given independent accreditation as a four-year, baccala-

reale-degree granting institution in November of 1971 by the Southern Association of Colleges and Schools. Christopher Newport College is also accredited by the Commonwealth of Virginia.

The College Buildings

The College Campus

Christopher Newport College is centrally located in a suburban area of the City of Newport News and is easily accessible to residents of Newport News, Hampton, York County, and James City County. 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 now houses the departments of computer science, retailing, English, political science, history, and sociology. 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 classrooms, 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 Captain Newport and he were among the seven men who comprised the colony's first council. Gosnold Hall houses the departments of biology and environmental science, business and economics, chemistry, mathematics, philosophy, and physics as well as the Placement and Public Relations Office. Like Christopher Newport Hall, it also contains a large lecture hall seating 224 people. A greenhouse used by the biology department is adjacent to Gosnold Hall.

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 home 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, one of which accommodates spectators at indoor athletic events.

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 for a time governor of the colony.

The Administration Building houses the offices of the President, Dean of Academic Affairs, Associate and Assistant Dean of Academic Affairs, Dean of Admissions, Registrar, and the Business Affairs and Personnel Office. The College switchboard, faculty mail boxes, a conference room, and the maintenance department are also found here.

The Captain John Smith Library contains approximately 83,644 volumes which are being catalogued according to the Library of Congress classification scheme. Of this number, approximately 3,732 volumes are reference books, 8,674 are bound volumes of periodicals, 47,842 are circulating books, and 23,096 are microforms. The library receives 574 current periodicals and 24 daily newspapers.

The library building houses books on open shelves. It is completely airconditioned and includes a reference room, two reading-stact rooms, a listening room, a browsing area, and an open-air reading deck. 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, for a fee of ten cents per page.

Monday-Thursday	8:00 A.M. to 10:30 P.M.
Friday	8:00 A.M. to 5:00 P.M.
Saturday	9:00 A.M. to 3:00 P.M.
Sunday	1:00 P.M. to 8:00 P.M.

Wingfield Hall

The fifth building at the College, a classroom structure of 20,090 square feet, was occupied 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 Pre-

sident (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.

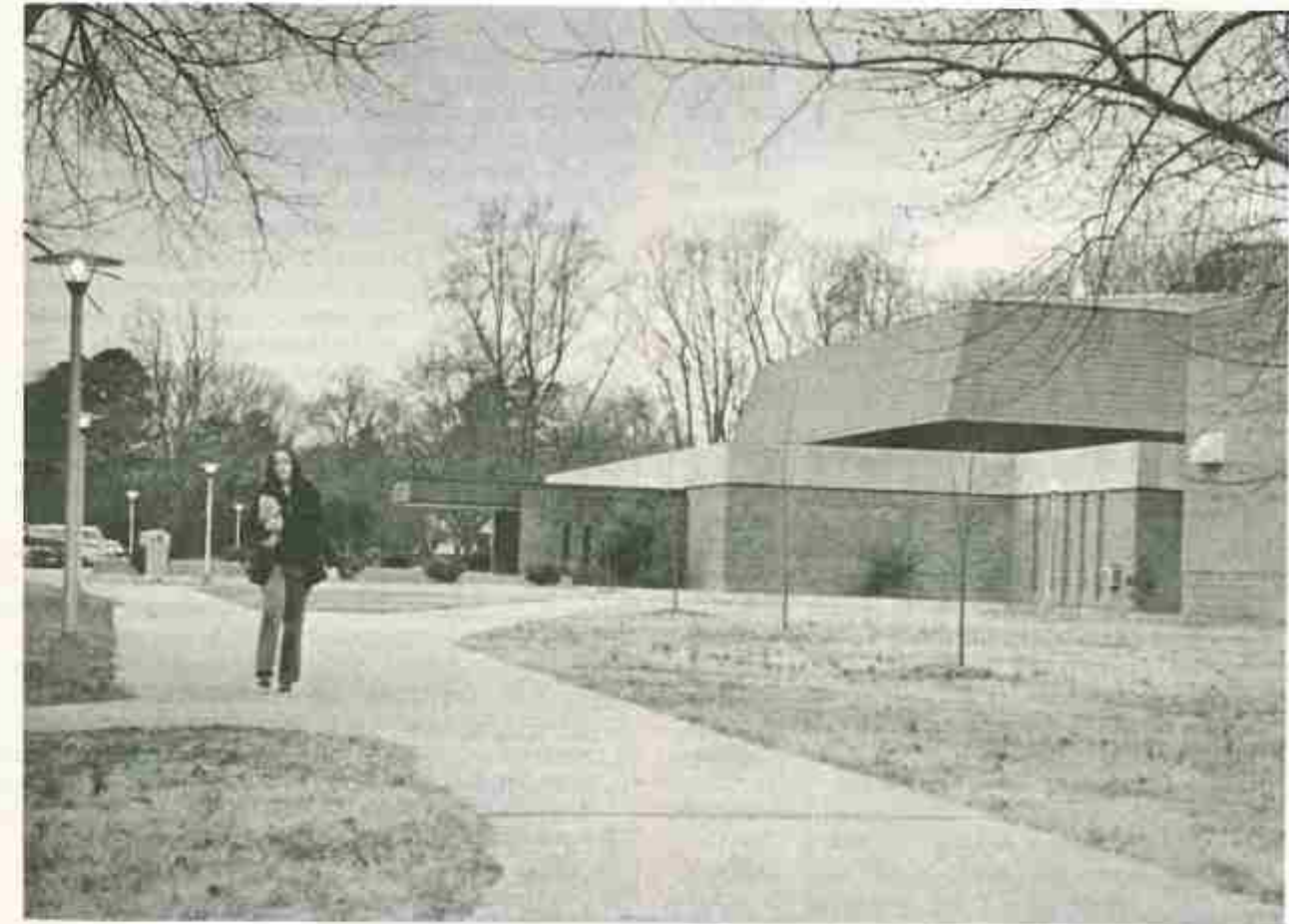
The Campus Center

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 recreation areas, a cafeteria, a pub, student publication and Student Government 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 make 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, Director of Building 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. In addition to the greenhouse portion, it contains a laboratory room and a herbarium.



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.

Transfer Applicants

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.

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).

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.

Recommendation Form The applicant should have his or her dean or adviser complete and return to the College the recommendation form included with the application. If the applicant has attended only a summer session or evening college program as an unclassified or special student, he or she should note this fact on the form and return it to the College with the application. If the applicant has attended more than one institution, he or she should send the form to the last college attended as a regular, degree-seeking student.

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 who desire to enroll in courses for personal or occupational improvement; 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 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 also required.

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

Senior citizens who are 65 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 \$5000 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 a 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.

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 101-101); 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 Modern 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 (Form DD 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.

Auditing Students

An individual who wished 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.

Fees and 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 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. All checks should be made payable to Christopher Newport College.

Tuition and Comprehensive Fee

The Tuition and Comprehensive Fee (\$23.00 per semester hour for In-State students and \$33.00 per semester hour for Out-of-State students) is a payment towards the general maintenance and operating cost of the College. The Comprehensive Fee of \$4.00 per semester hour 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 \$23.00 is charged for each semester credit and should be paid at the time of registration for the course. The fee for a Continuing Education course is based on the number of Continuing Education Units (CEU)

awarded for successful completion of the course. One CEU is equal to ten hours of contact with an instructor in an organized learning experience. Unless otherwise indicated in the course description, the fee for any course carrying such units will be \$15.00 per CEU.

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 percent of the total tuition and fees 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.

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) 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 state 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 of *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, Virginia and are mailed to the student by the College. 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. A student withdrawing from all classes or dropping a class prior to the period of registration (see the College Calendar for exact date) is entitled to a refund of all reimbursable tuition payments. The Comprehensive Fee is *not* reimbursable. For example: A full-time State student who has paid \$330.00 would receive a full refund less the Comprehensive Fee of \$45.00 and a Processing Fee of \$10.00 for a total refund of \$275.00.

2. If a student withdraws from all classes or drops a class within the subsequent two-week period, the College will refund 50% of the reimbursable tuition charges. For example: A full-time State student who has paid \$300.00 would receive a 50% refund less the Comprehensive Fee of \$45.00 for a total refund of \$142.50.

3. A student who withdraws from all classes or drops a class after the second week of class will not be entitled to a refund.

4. All students enrolled in a class which the College cancels for any reason will receive a full refund of tuition and fees.

5. No refunds will be given for unofficial withdrawals or drops, regardless of the date of withdrawal.

6. No refunds will be given for non-credit courses.

Schedule Change Fee

A fee of five dollars (\$5.00) will be charged for each student-initiated schedule change. (A schedule change is defined as any addition or drop of course or course section. The fee will be charged for a single change or several changes processed at one time. Any subsequent change, i.e., on another day or even later on the same day, will require another \$5.00 fee.)

No fee will be required for changes made under the following situations: (1) a change required because the student failed a prerequisite course; (2) a change required because a course is cancelled by the College; (3) a change required because a course is split or a time is changed by the College; (4) a change required because a course was closed at the regular time of registration (this does not include late registration); and (5) a change required because of two courses scheduled at the same time.

A fee will be charged for changes made under the following situations: (1) a change made because the

prerequisites of a course were not met (each student is responsible for knowing this information); (2) a change made because a student's job hours have changed; and (3) a change made because of personal or family reasons.

Exceptions to the above must be approved by the Registrar or Assistant Registrar. It is not the desire of the College to cause undue financial strain for any student. The fee is charged only to cover the cost of additional processing.

Non-Recurring Fees

Application Fee:	\$10.00
Graduation Fee (includes diploma and regalia):	
Associate's	10.00
Bachelor's	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 somewhat on the courses taken, but for a full-time student will seldom be less than \$100. Money for books cannot be included in checks covering college tuition and fees. Books should be paid for in cash or by separate check when purchased.

Students using bridge or tunnel facilities for which a toll is charged may purchase ticket books at reduced rates from the Business Manager. Students are eligible for this privilege only if they use toll facilities when commuting from home to the College on the day of a scheduled class. Identification cards must be obtained from the Registrar before tickets can be 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 the student's parent. Under our regulations as a State institution, we are not permitted to cash checks made payable to Christopher Newport College.

Financial Assistance

The College offers financial assistance to deserving students. Awards are made on the basis of need, character, and status as a classified student, and are made for one year only. The recipient of an award may apply for renewal provided he or she maintains a satisfactory academic record. In order to be eligible for any Virginia State Scholarship or Loan Program, an applicant with an established need is required to be accepted for enrollment as a full time classified student (minimum of twelve semester hours). In the case of the Federal Programs, i.e., National Direct Student Loans, College Work-Study, and Supplemental Educational Opportunity Grants—but excluding the Basic Opportunity Grants—an otherwise eligible applicant is required to be accepted for enrollment on at least a half-time basis (minimum of six semester hours). The Basic Opportunity Grants Program is expected to be available during the program's third year of operation (school year 1975-76) to qualified full-time freshmen, sophomores and juniors (those who began their post-high school education after April 1, 1973).

The types of aid include scholarships or grants, loans, and student employment. Because all scholarship funds are given either by the Commonwealth of Virginia or by local organizations or individuals, the College can offer scholarships only to Virginia residents. Loans, grants, and

employment are available to out-of-state students.

Any classified student or prospective student may apply for financial aid. An application may be filed before a student is admitted to the College, but it will not be processed until notification of acceptance is given.

It is recommended that both new and renewal applications for the fall semester be filed with the College prior to May 1 so that the student may receive maximum consideration; late applicants will be considered as funds permit. The deadline for the spring semester is November 15. The deadline for the summer session is April 15. The PARENTS' CONFIDENTIAL STATEMENT or the STUDENT'S FINANCIAL STATEMENT should be filed at least four weeks ahead of this application deadline to allow for processing time by the College Scholarship Service.

In addition to the application form, which may be obtained from the Financial Aid Office, the student must submit a PARENTS' CONFIDENTIAL STATEMENT to the College Scholarship Service. This form may be obtained from the student's high school, from the College, or from the College Scholarship Service, Box 176, Princeton, New Jersey 08540; Box 881, Evanston, Illinois 60204; or Box 1501, Berkeley, California 94701. Students who consider themselves self-supporting should obtain a STUDENT'S FINANCIAL STATEMENT from the College or from the

College's Scholarship Service at any of the above addresses. A self-supporting student is one who (a) has not been listed and will not be listed as an exemption for Federal Income Tax purposes by any person except his or her spouse for the calendar year(s) in which aid is received and the calendar year prior to the academic year for which aid is requested, (b) has not received and will not receive financial assistance of more than \$800 from his or her parent(s) in the calendar year(s) in which aid is received and the calendar year prior to the academic year for which such aid is received and (c) has not lived or will not live for more than two consecutive weeks in the home of a parent during the calendar year(s) in which aid is received and the calendar year prior to the academic year for which aid is requested. The word "parent(s)" refers to the student's mother or father or any other person (except spouse) who provides or did provide the student with more than one-half of his or her support.

Private Scholarships

Coats and Clark, Inc. Scholarship

A grant established in 1967, this scholarship awards \$500 per academic year to an entering freshman, preferably a resident of the Peninsula area. Special consideration will be given to children of employees of Coats and Clark, Inc. Upon application, the scholarship may be renewed, providing the student maintains an academic standing in the upper half of his or her class.

Daisy Garland and Sidney Harmon Scholarship Foundation

This foundation, established by a bequest from the late Robert M. Usry, first faculty member of the College, provides two tuition scholarships annually from its earnings to rising seniors at Christopher Newport College. The awards are based on scholarship, leadership, self-discipline, cooperativeness, and contribution to student life on the campus. Recipients will be selected by a committee chaired by the Dean of Student Affairs.

Hampton-Newport News-York County City Panhellenic Scholarship

This is a grant of \$400 per academic year, made on the basis of need and academic qualifications, to a full-time woman student who is entering her sophomore year and who plans to further her college education.

Hampton Roads Jaycettes Scholarship

A grant of \$200 per academic year will be made to a full-time woman student.

Hatten Memorial Fund

Established in September, 1965, by Mr. Earl R. Hatten in memory of his late wife, Leone Quackenbush Hatten, a grant of \$10,000 has been invested by the College, and the earnings from this fund are being used for scholarship purposes for deserving senior students.

Julia Tucker Herman Memorial Scholarship

An anonymous grant established in 1965, this scholarship is based strongly on need and provides varying amounts up to a maximum equaling the session tuition for a Virginia student.

The Junior Woman's Club of Hilton Village Scholarship

A scholarship fund was established in 1967 to assist students interested in becoming kindergarten teachers. Grants will vary according to the individual student's need. Special consideration will be given to prospective elementary teachers.

Leon Hodge Memorial Scholarship Fund

This fund was established in 1970 in memory of Leon Hodge. Its continuance is made possible by contributions from friends of the late Mr. Hodge.

R. Bane Jones Memorial Scholarship

This grant was established in September, 1971, by the Newport News Young Republican Club in memory of R. Bane Jones, charter member of the organization. The grant, made on the basis of scholastic performance and financial need, awards \$100 per academic year to a rising junior pursuing a major in political science. A minimum C average is required.

Robert Madison Usry Memorial Scholarship

This grant was established in 1971 by the Pi Kappa Sigma Sorority in memory of Robert Madison Usry, Assistant Professor of History at Christopher Newport College from 1961 until his death in January, 1971. The scholarship awards \$100 for the academic year to a junior or senior degree-seeking woman student.

Robert M. Usry Scholarship Foundation

The will of the late Robert M. Usry, Assistant Professor of History at Christopher Newport College from 1961 to 1971, provided for the establishment of this foundation. Income from the foundation is used to establish three \$500 scholarships for student athletes to be awarded at the annual Christopher Newport commencement exercises. In making these awards consideration is

given to the student athlete who has attained a varsity letter as well as scholastic achievement. Recipients will be selected by a committee chaired by the Director of Athletics.

Tom Fiscella Memorial Scholarship

A grant established in 1971 by Mr. and Mrs. Ben Fiscella in memory of their son, this scholarship awards an amount equal to the session tuition for a Virginia student. Upon application, the scholarship may be renewed.

Thomas J. Hundley Award

A grant was established in 1969 by the Newport News-Hampton Board of Realtors. The scholarship, based on need, awards \$400 to a local resident who will have attained senior status.

College Scholarship Assistance Program [CSAP]

This is a need-based program of scholarships to students in Virginia state-supported colleges and universities. The program is administered by the State Council of Higher Education for Virginia and application is made directly to the Council. Applications may be obtained from Christopher Newport College or by writing to the Council: 10th Floor, 911 East Broad Street, Richmond, Virginia 23219.

Virginia State Student [Undergraduate] Scholarships

The General Assembly has allocated funds to the College for scholarships to undergraduate students who are Virginia residents.

Teaching Scholarships

The General Assembly has made an appropriation for Scholarship-Loans to students who are residents of Virginia and who plan to teach in the Virginia Public Schools. These scholarship-loans are valued at \$450 per academic year. Only a limited number of carefully selected freshmen will be eligible. Interested students should contact the Director of Student Teaching at the College.

Basic Educational Opportunity Grants (BEOG)

The Education Amendments of 1972 established a program of basic grants for qualified undergraduate students accepted by or enrolled in institutions of higher education. If fully funded, the BEOG Program would entitle full-time qualified students to grants ranging from \$200 to \$1400. Under a fully-funded BEOG Program, a full-time student would be entitled to receive a grant equal to \$1400 less expected family contribution, but the grant could not exceed one-half the actual cost of attendance at the institution. Since the BEOG Program is not expected to be fully funded for the 1975-76 school year, it is expected to

be limited to freshmen, sophomores and juniors during this session. Applications may be obtained from high schools, colleges, public libraries, or by writing to P.O. Box 84, Washington, D.C. 20044 and should be submitted directly to the address contained in the application.

Supplemental Educational Opportunity Grants [SEOG]

Under the Higher Education Act of 1965 and subsequent amendments, funds are available to colleges and universities for the purpose of providing scholarships to undergraduate students of exceptional financial need who would not, except for the grant, be financially able to attend college. Supplemental Educational Opportunity Grants in amounts which may vary between \$200 and \$1500, with a maximum aggregate set at \$4000, are available for qualified students. These awards must be matched in equal amounts by other financial aid provided by the institution through scholarships, loans, or employment. Applicants for the SEOG must be enrolled or accepted for enrollment on at least a half-time basis and show evidence of academic or creative promise and the capability of maintaining good standing. Grants may be renewed from year to year for the first four years of undergraduate work provided the student remains in the institution, continues to show academic promise, demonstrates that he or she will be graduated, and the financial need remains.

Loans

Emergency Loan Fund

An emergency loan fund was established in 1967 by the Sophomore Class in honor of J. C. Windsor. Students may borrow, interest free, up to \$50 for a period not to exceed thirty days. Applicant should have student Identification Card available when applying to 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, up to \$100 for a period not to exceed sixty days.

Virginia State Student [Undergraduate] Loans

The General Assembly has allocated funds to the College for loans to undergraduate students who are Virginia residents.

National Direct Student Loans

Under the National Defense Education Act of 1958, Con-

gress authorized substantial funds for the establishment of low interest, long-term loans in institutions of higher learning.

An undergraduate may borrow up to a cumulative total of \$2500 for the first two years of a program leading to a bachelor's degree and up to \$5000 for the bachelor's degree. The repayment period and the interest do not begin until the ninth month after the student graduates or ceases to be at least a half-time student.

Borrowers who elect to teach in certain eligible schools located in areas of primarily low-income families, certain preschool teachers and staff members, teachers of handicapped children, and members of the Armed Forces serving in an area of hostilities may qualify for cancellation of varying amounts of their obligation.

Repayment may be deferred up to a total of three years while a borrower is serving in the U.S. Armed Forces, with the Peace Corps, or as Volunteer in Service to America (VISTA). Repayment is deferred for as long as a borrower is enrolled at an institution of higher education and is carrying at least a half-time academic work-load.

Guaranteed Student Loan Program

This program is administered in Virginia by the State Education Assistance Authority. Under the program, full-time students who are residents of the Commonwealth of Virginia apply *directly* to participating banks and other lending institutions. Applications are obtained from these institutions. A Virginia undergraduate may borrow up to \$1500 per year. The law requires that Guaranteed Student Loan applications involving federal interest benefits require a financial need analysis if the adjusted family income is \$15,000 or more. This analysis will necessitate submission of a PARENTS' CONFIDENTIAL STATEMENT or a STUDENT'S FINANCIAL STATEMENT to the College Scholarship Service. The PCS/SFS forms are available in the Financial Aid Office.

Law Enforcement Education Program [LEEP] Grants And Loans

LEEP is a federal program intended to develop professional law enforcement officers through higher education. It provides educational opportunity through financial aid and is directed to students having the ability and desire to provide professional performance in the criminal justice system. The two types of aid provided to students enrolled in the College are (1) a loan for full-time study toward a baccalaureate degree in areas directly related to and required in law enforcement. Loans are available to students, pre-service or in-service. Forgiveness of loan in-

debtedness for full-time law enforcement service is as follows: the total amount of any loan, plus interest, shall be cancelled at the rate of 25% of the total amount of such loans plus interest for each complete year of such service or its equivalent; (2) grants for part-time study of degree creditable courses related to and useful in law enforcement. Grants are limited to law enforcement officers. This includes not only police but also corrections, probation, parole, and courts officers. An eligible officer may also qualify for a loan if he or she is both a full-time student and a full-time employee. The application process consists of an interview with the Director Of Criminal Justice Program followed by completion of LEEP Student Certification and Note.

Student Employment

The College will assist students in obtaining part-time employment both on- and off-campus, and where possible, full-time summer and holiday employment. Interested students should contact the Placement Office.

College Work-Study Program (On-Campus)

The College, in cooperation with the Federal government, offers on-campus employment for students, especially those from low-income families, who need a job to help pay for college expenses. Students must be enrolled on at least a half-time basis. The work-study assignments are renewable each year contingent upon need and good academic standing.

College Work-Study Program (Off-Campus)

Under the VIRGINIA PLAN which was established in the spring of 1971, participating colleges will be able to place eligible students in full-time off-campus jobs for a ten-week period in the summer. Such students must be planning to enroll in Christopher Newport College for the fall semester immediately after their summer employment.

Benefits for Veterans and War Orphans

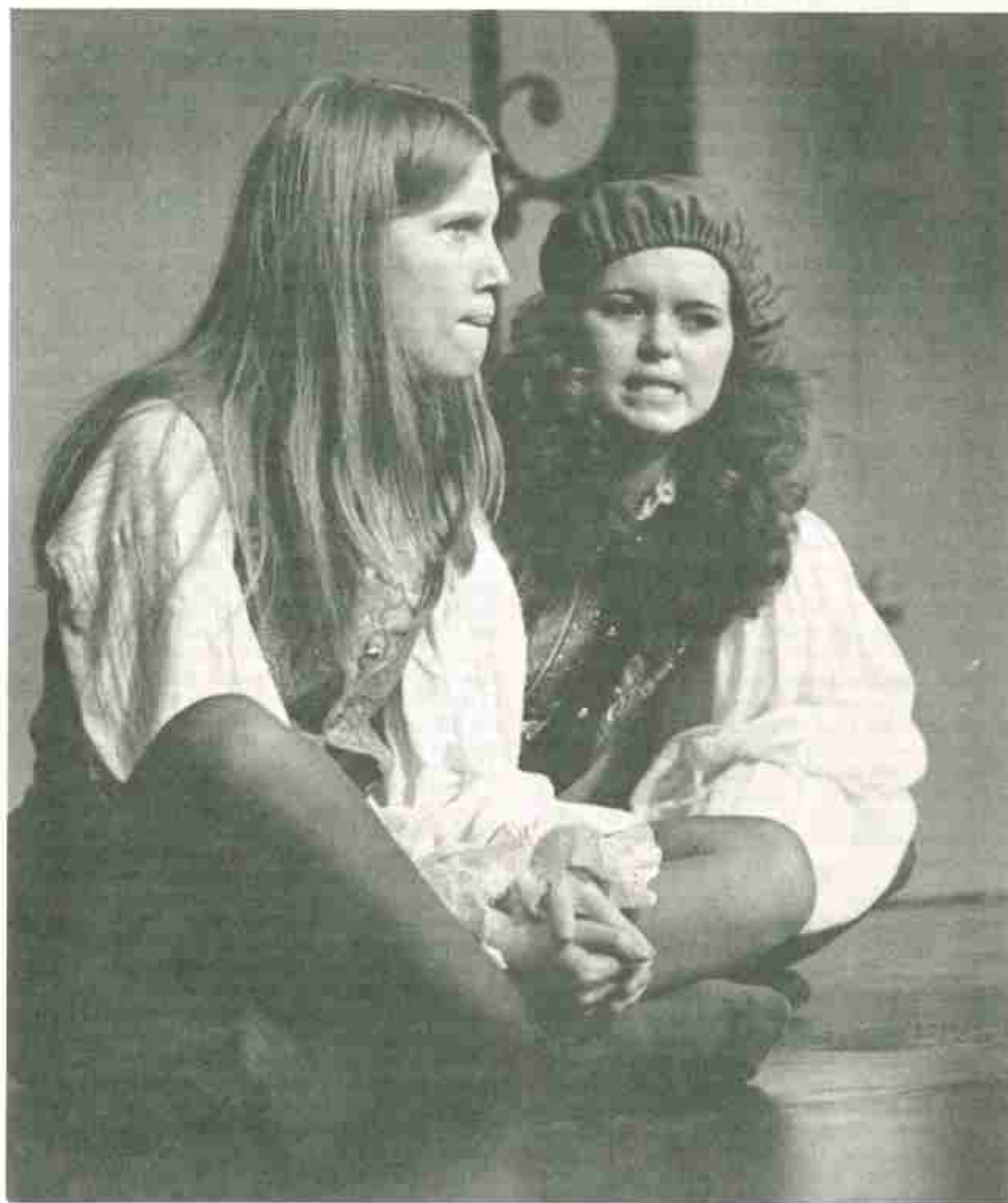
The College is approved to offer educational programs to veterans, servicemen, and to war orphans (children of veterans who are permanently and totally disabled from service-connected causes or who died while so disabled).

It is urged that application for benefits be made to the nearest Regional Office of the Veterans Administration well in advance of the desired admission date. At the time of initial enrollment, the veteran or war orphan must present a Certificate of Eligibility, VA Form 21E-1993, to the office of the Dean of Admissions.

The Placement Office

The Placement Office assists students in finding part-time employment on and off campus while in college.

In addition, the office assists those students seeking full-time employment prior to or after graduation by arranging interviews for them with representatives of business, industries, and government, both local and national.



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 Dean of Student Affairs, 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 Government Association

All regularly enrolled students at Christopher Newport

College are members of the Student Government Association. The powers of the Student Government Association include control over all student activities and are vested in regularly elected officers.

Code for Academic Work

The Academic Hearing Board is composed of three students, nominated by the Executive Council of the Student Government 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 non-voting chairman. The Academic Hearing Board is given authority over the College's Code for Academic Work.

All students accept the jurisdiction of the Student Government 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 Government Association, students now serve as members on the following committees: Athletics, Bookstore, Budget, Building and Grounds, Campus Center, Continuing Studies, Curriculum, Financial Aid, Intramural and Leisure Time Activities, Library, Placement, Student Affairs, Student Responsibility and Academic Work, and Traffic.

Activities

Athletic Program

Intercollegiate activities offered are basketball, cross-country, indoor and outdoor track, golf, tennis, soccer, and gymnastics. A strong intramural program is offered under the sponsorship of the Student Activities Committee. Activities include flag football, basketball, volleyball, table-tennis, softball, badminton, archery, and horseshoes. Further athletic activity is available through a strong club sports program. Athletic organizations sponsored by the Student Activities Committee and open to both men and women include the Fencing Club, Gymnastics Club, Karate Club, Sailing Club, Swimming Club, and the Tennis Club.

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

Organizations

Christopher Newport College encourages students to participate in the extracurricular 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 Dean 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.

ASSOCIATION FOR COMPUTING MACHINERY promotes an increased knowledge of the science, design, development, construction, languages, and applications of modern computing machinery.

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 each year.

CRAFT GUILD OF CHRISTOPHER NEWPORT COLLEGE encourages artistic creativity among the student body, faculty, and administration by providing a sales outlet for their crafted articles and by promoting and sponsoring art shows and demonstrations.

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, discussions, and in field trips.

HONOR SOCIETY OF CNC promotes academic achievement among students at Christopher Newport College, recognizes academic excellence, maintains high academic standards, and researches new methods in higher education.

INTRAMURALS ACTIVITIES COUNCIL aids the division of Intramural 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 LANGUAGE CLUB OF CNC 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.

NEWMAN APOSTULATE, a Catholic organization, welcomes members of all faiths to aid actively in service, social, and religious projects.

PATRICK HENRY FORUM explores the issues and ideas of our times in a non-partisan manner.

PEP CLUB OF CNC provides musical entertainment at athletic contests and other events on campus.

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

PRE-MEDICAL SOCIETY OF CNC provides an active and efficient communication link between pre-professional Health Sciences students and graduate or medical schools.

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.

STUDENT INTERNATIONAL MEDITATION SOCIETY OF CNC provides lectures and discussions for meditation on campus.

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

SWIMMING CLUB OF CNC provides the opportunity to practice and compete in competitive swimming.

TENNIS CLUB OF CNC promotes good fellowship, sportsmanship, and a better understanding of tennis as a sport and a leisure-time activity.

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.

THE UNDERTOW, the campus literary magazine, publishes the creative art work, writing, and photography of interested students.

Student Services

The Counseling Center

The Counseling Center, located in Wingfield Hall, offers services to new and enrolled students that are an integral part of their educational experience. It offers three types of assistance: vocational counseling helps the student determine the profession or position for which the student is best suited; educational counseling helps the student select the courses appropriate to his or her career objectives and to assist the student in establishing effective study habits; and personal adjustment counseling helps the student overcome difficulties encountered in personal and social adjustment.

An important function of the Counseling Center is its work with new students. All incoming students are given appropriate placement tests and are interviewed by a member of the Counseling Center staff. During this interview the results of the placement tests are discussed, and courses are chosen after consideration of test results, high school achievement, and the student's personal interests and career objectives.

In cooperation with the Department of Basic Studies, the Counseling Center provides assistance in developing additional competence in reading, writing, and mathematics for those students who require it or who feel that their educational objectives are best served by a review of these basic skills. In addition, the Counseling Center provides tutorial assistance to those students who are referred by their instructors.

Vocational interest and aptitude inventories and vocational information are available to all students who desire help in selecting their major fields of study. The Center conducts Vocational Exploration groups which allow the student to explore various occupational opportunities as well as to practice the decision-making process.

Personal counseling is provided through group and individual work with the Counseling Center Staff. In addition, consultation is available through the Newport News Mental Health Clinic. In case of referral, the appropriate fees for services will be charged by the Clinic. All services provided by the Counseling Center and the Mental Health Clinic are considered confidential. In its relationship with each student, the Counseling Center encourages the student to meet his or her developmental needs with improved insight and effectiveness.

Loans and Scholarships

The College offers financial assistance to deserving students who wish to defray a part of their total college expense. A full description of scholarship and loans is found in the *Financial Assistance* section.



Special Programs

The Office of Continuing Studies and Community Service is responsible for designing and implementing special courses and activities to meet local needs and demands.

Continuing Studies

Christopher Newport College's continuing education program presents an opportunity for adults who would like to gather together weekly to talk and to play, to develop mind and body. The programs are divided into four categories: Adult Liberal Learning; Personal and Family Development; Professional and Career Development; and Community and World Development.

The courses within these programs do not carry academic credit. Their organization is quite different from traditional academic courses—at times, they are more open, relaxed, more personal, more specifically program or goal-centered than a regular academic course can be.

The *Credit-Free Courses* are courses devoted to a wide range of general adult interests and are organized in an informal way to promote learning and fellowship. In a sense, the College functions merely as the agent to bring people together who share common concerns and goals, provides appropriate leadership for these people, and establishes an environment conducive to "civilization."

The *Continuing Education Unit (CEU)* courses must meet certain national and state standards and thus are more carefully organized and supervised than the Credit-Free courses. One (CEU) is defined as ten contact hours of participation in an organized continuing education experience under responsible sponsorship, capable direction, and qualified instruction. CEU courses are planned in response to expressed educational needs of a particular group; the planning always includes input from the group; and the

course includes evaluation appropriate to the group to be served and the course as designed. Unlike the Credit-Free Courses, participation in CEU courses is always recorded by the College and kept permanently on file. A transcript of activities successfully completed will be available.

Announcements of Credit Free and Continuing Education Unit Courses are published in the fall and spring of each year.

University Center Lecturers

Through membership in the University Center, a consortium of Virginia colleges and universities, the College brings noted scholars to the campus and community to lecture and visit classes. During the past year, the College hosted Dr. Cleanth Brooks of Yale University; Theodore J. Lowe of Cornell University; Garrett Birkhoff of Harvard University; and Urie Bronfenbrenner of Cornell University.

Nancy A. Ramseur Memorial Concert Series

In honor of Nancy A. Ramseur, the College's first Dean of Admissions, the College sponsors a concert series which brings to the Peninsula internationally acclaimed performing artists. During the past year the College presented Eugene List, pianist; Olivia Stapp, mezzo-soprano; Simon Estes, bass-baritone; and the Orpheus Trio.

Christopher Newport College-Jewish Community Center Film Classics Club

For the past five years the College has cooperated with the Jewish Community Center in presenting the Peninsula with an opportunity to see foreign and American film classics. During the past year the club members saw *The Virgin Spring*; *Gold Rush*; *Ugetsu*; *Every Bastard a King*; and *Kind Hearts and Coronets*.

Academic Policies and College 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 advisers who are available for academic counseling. Any student may arrange for an individual conference with a faculty adviser or with any of the counselors. Students currently enrolled should plan their programs for the following semester with their faculty advisers 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 adviser, 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 pre-registration 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 the 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 upon application to the Registrar. For a period of approximately six weeks (see the *College Calendar* for the exact date), a student may drop a course without grade penalty. The notation "Dropped" 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, he or she may drop it without a grade penalty with the permission of the student's adviser and instructor.

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

Auditing a Class

A student may audit a course with the approval of his or her adviser if class size permits. An auditing fee of \$23.00 for each semester credit. 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 class 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 *WP* will be entered for each course which the student was passing and a *WF* for each course which the student was failing at the time of withdrawal.

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. A student who withdraws with *WF* in half or more of his or her courses will be considered in the same way as a suspended student and must formally request reinstatement in good standing by the Committee on Academic Status after at least one semester has elapsed.

Examinations

The examinations given at the end of each semester take place at times announced on the examination schedule, which is published 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 should 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 and Meaning	Grade Point Value per Semester Credit Hour
A-Superior	4
B-Good	3
C-Passing	2
D-Passing	1
F-Failing	0
P-Passing	0
I-Incomplete	0
NG-No grade reported	-
WF-Withdrew while Failing	-
WP-Withdrew while Passing	-
W-Withdrew (no grade penalty)	-
DR-Course dropped (no grade penalty)	-
S-Continuing Education Unit courses only: Course satisfactorily completed.	-
T-Continuing Education Unit courses only: Course not completed and no CEU awarded.	-

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. Course work taken elsewhere will not be included in computation of the GPA.

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 adviser. The original grade, grade points, and 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 may be 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 to take 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 that 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 earns at least forty-eight grade points with no grade below a C in academic subjects and who makes a grade point average of at least 3.0 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 interests of the student and in consideration of the student's stated goals.

The student who achieves less than the minimum stan-



dard 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.

The student who withdraws with WF in half or more of his or her courses will be considered in the same way as a suspended student. The notation "may not enroll without permission of the Committee on Academic Status" will be

placed on his or her permanent record card. A full-time student who received an I in half or more of his or her courses must make up the incomplete work before registering for the following semester or must obtain the permission of the Committee on Academic Status to re-enroll.

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 the 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 adviser for a new form.

When the student achieves the minimum requirement for the hours he or she has carried, probation may be removed. A statement to this effect is then placed on the permanent record card. If the Committee believes that the student is progressing at less than the minimum level, probation may be continued.

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 will be suspended.

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 "Required to withdraw for academic deficiencies" 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 transfer 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 asked to withdraw 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

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	54 to 85 credits
Senior	85 to 170 credits

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 adviser 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 adviser 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 Associate Dean of Academic Affairs 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 passing grade and are

comparable to courses offered by 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 Associate Dean of Academic Affairs.

Challenging a Course

Students who have become very knowledgeable about or proficient in the material covered in any course offered at the College, including Physical Education activities courses, may challenge the course. By passing an appropriate examination or proficiency test, the student may earn credit for the course without enrolling in it. For details on this procedure, students should see the chairman of the department in which the course is offered.

Transcripts

A transcript is the official copy of the student's academic work at the College. Transcripts are issued only upon the written request of the student or his or her authorized agent. This request should be made at least one week before the date needed. The College will issue one free transcript for each student but charges a fee of \$2.00 for each additional transcript. No transcript is sent until the fee has been paid. A transcript given directly to a student does not carry the College seal and thus is not official. The seal is attached only when the transcript is sent directly from the College to another college or authorized agency.

Course Offerings in the Evening

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 the normal scheduling of classes would make attendance difficult or impossible. The evening curriculum begins at 4:00 P.M. with the bulk of the courses

starting at 7:00 P.M. and operates Mondays through Thursdays.

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.

Course Offerings in the Summer

The summer session, which extends the College's academic resources to students who reside on the Peninsula but attend or plan to attend another college or university, is an integral part of the educational program of the College. The Summer Session consists of three terms of four and one-half weeks each and one term of nine weeks and offers courses in both day and evening. The Summer Session catalogue is published annually in March.

Course Offerings in the Newspaper

Courses by Newspaper, a project originated and administered by University Extension, University of California, San Diego, will make college-level courses available to newspaper readers throughout the nation and abroad.

Courses by Newspaper are intended to serve three audiences: the casual newspaper reader whose interest is caught by the information presented; the reader who wants to explore the subject further and will send for a kit of supplementary materials; and the reader seeking college credit for the course who also will send for a kit of supplementary materials and who will register with the College for the periodic lecture-discussion meetings which accompany the course. The kit will include further readings, study guide, and bibliographies. Instructions for obtaining the kits and for registering for credit will be carried in the *Daily Press* and *Times Herald*. The opportunity to meet with instructors is an important feature of Courses by Newspaper, distinguishing it from a correspondence course.

The newspaper, previously neglected as a medium for presenting college-level courses, has several advantages over radio and television. It comes to the home in permanent form; it can be kept indefinitely; and it can be read and re-read in the student's own leisure and speed. The project's administrators believe that the newspaper is an ideal medium for reaching the thousands of people who cannot attend regular college programs and who are eager to continue learning throughout life.

Student seeking credit will enroll at Christopher Newport College. The College will provide a faculty coordinator to meet with the students in evening or Saturday sessions of three hours each at intervals of five weeks. The kits will be required for credit students.

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 Management Information Science (B.S.M.I.S.) degree, and the Associate in Arts (A.A.) degree.

The College offers the B.A. degree in elementary education, English, French, history, mathematics, political science, psychology, sociology, Spanish, and theater arts. In addition, baccalaureate degrees in German and philosophy are offered in conjunction with the College of William and Mary. The B.S. degree is offered in biology, chemistry, and psychology. The College offers the professional B.S. degree in Business Administration (with concentrations in accounting, economics, finance, management, marketing, real estate, and retailing) and in Governmental Administration (with concentrations in Urban Management, Urban Planning, Law Enforcement, and Corrections) as well as the interdisciplinary B.S. in Management Information Science. The Associate of Arts degree is offered in Liberal Arts and in Retailing. 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 catalogue when he or she entered the College or the general requirements in the catalogue 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-two semester credits are required for graduation. A minimum of two hundred and forty-four grade points (a 2.0 overall 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 catalogue.

Certain other general requirements must also be fulfilled for graduation:

1. The student must achieve a minimum overall grade point average of 2.0 as well as a 2.0 in his or her ma-

ior field of concentration with no more than two grades of D in the major. (Effective June, 1969, the College adopted a four-point grading scale; consult the System and Grading for the exact scale).

2. 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 Serviceperson's Opportunity College may fulfill the thirty hours of residency at any time in the course of satisfying his or her degree requirements.
3. At or before the end of the sophomore year (or fourth semester), the student should choose a major field in consultation with an adviser 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 adviser 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.
4. Of the one hundred and twenty-two 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 courses, 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 four credits in physical education activities courses toward the degree.
 - c. The student may present a maximum of twelve hours in any combination of elementary topics (395) and advanced topics (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.

Bachelor of Arts and Bachelor of Science Degrees

Distribution requirements should ordinarily be com-

pleted 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 is required unless exempted by the English Department on the basis of tests, previous record, and other criteria.

Foreign Language

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 Division

six credits

The student may choose any one of the following sequences: English 201,202; 205,206; 207-208; Fine Arts 201,202; Music 201-202; and Philosophy 201,202 or any six-hour combination of Classical Civilization 200; French 251,252; German 251,252; Modern Languages 205,206; or Spanish 251,252.

Mathematics or Philosophy

four to six credits

The student may choose Philosophy 101-110 or any two of these four courses in mathematics: Mathematics 110, 120, 130, or 220. If qualified, the student may choose Mathematics 230 alone. A maximum of nine semester credits of 100-level mathematics courses may be applied toward any degree. At the discretion of the Mathematics Department, the requirement may be satisfied if a student places beyond Mathematics 230 on the placement examination. (Any student who began the Philosophy 201-202 sequence before June, 1969, may count these courses as fulfillment of the Mathematics/Philosophy requirement instead of the Humanities requirement.)

Natural Science Division

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 or 121-122 and 125-126; Physics 103-104 or 201-202; or any natural science laboratory 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 laboratory course

in a second field will be required for a B.S. degree (see the specific requirements for the appropriate department).

Social Sciences Division

twelve credits

The student may choose any two of the following sequences: Economics 201-202; History 101,102 or 201,202; Sociology 200 and any other 200-level sociology course; Psychology 201-202; or any two-semester sequence in Political Science selected in consultation with the student's adviser.

Physical Education

two credits

Effective with the 1970-71 college catalogue, the former requirements of four semesters of physical education was reduced to two semesters, each semester course earning one credit and the appropriate quality points. Students who entered the College before September, 1970, will be required to present only two semesters of required physical education for completion of the degree. Students enrolled before June, 1967, are not required to meet this distribution requirement, thus reducing the number of hours required for the degree to one hundred and twenty.

A student may waive one of the basic distribution requirements except English 101-102. 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 from 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 Science Degree in Management Information Science

Management Information Science is an undergraduate professional program leading to an interdisciplinary bachelor or 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, systems 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 range



of courses which satisfy the distribution requirements is listed below:

Humanities *twelve credits*

The student must complete English 101-102. For the remaining requirement, the student may select any six or eight credit humanities sequence or a combination of one 200-level English or other humanities course and Speech 201.

Mathematics *three credits*

The student must take Mathematics 130. Through advanced placement, the student may offer Mathematics 230 to satisfy this requirement.

Natural Sciences *eight to ten credits*

The student may choose one of these sequences: Biology 101-102 (a student who earns an A or B in Biology 102 may be given permission by the department to substitute an upper-level laboratory course for 102); Chemistry 103-104 and 105-106 or 121-122 and 125-126; Physics 103-104 or 201-202; or any natural science laboratory course for non-science majors. Freshman geology, astronomy, or another laboratory science course that considers one area of science through the full academic year may be accepted as transfer credit.

Social Sciences *twelve credits*

The student may choose one of these six-credit se-

quences: Economics 201-202; History 101,102 or 201,202; Psychology 201-202; or in consultation with his or her adviser, the student may choose any two-semester sequence in political science or sociology. 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 credits*

The physical education requirement must be met within the first sixty hours unless an exemption or post-ponement has been granted by the Committee on Degrees. Effective with the 1970-71 college catalogue, the former requirements of four semesters of physical education was reduced to two semesters, each semester course earning one credit and the appropriate quality points. Students who entered the College before September, 1970, will be required to present only two semesters of required physical education for completion of the degree. Students enrolled before June, 1967, are not required to meet this distribution requirement, thus reducing the number of hours required for the degree to one hundred and twenty.

Effective September, 1972, a student may waive one of the basic distribution requirements except for English 101-102. This exemption affects neither prerequisites for courses nor department requirements. The waiver does not alter 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 any of the basic distribution requirements outlined above may be requested by writing to the Committee on Degrees.

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: Business 201-202, 324, and two of the following: 323, 410, 418 or Economics 490; Computer Science 220, 240, 430, 440 and two of the following: 330,340,350 and 360; Economics 201, 202; Mathematics 220, 230, and 310; and Psychology 201, 303, and 313. Recommended electives for the remainder of the 122 credit hours include: Business 303-304, 311; Computer Science 250, 310, 360, 431; Mathematics 240, 320, 395 (Numerical Analysis); and Sociology 432.

Sample Program for Management Information Science Majors

Course	Hours
<i>Freshman Year</i>	
English 101-102	6
Math 130, 230	7
Laboratory Sciences	8-10
Social Science	3

Computer Science 220, 240	6
Physical Education	2
	32-34

Sophomore Year

Speech 201	3
Humanities	3
Economics 201-202	6
Math 220	3
Business 201-202	6
Computer Science 330, 340	6
Psychology 201	3
	30

Junior Year

Business 324, 410	6
Computer Science 350, 360	6
Psychology 303, 313	6
Math 310	3
Electives	9
	30

Senior Year

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

Bachelor of Science 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 unless the student is officially excused by the Dean of Academic Affairs. The range of courses which a student may take to satisfy the distribution requirements is listed below:

English *six credits*

The student must take English 101-102 unless exempted by the English Department on the basis of tests, previous record, and other criteria.

Humanities *six credits*

The student must choose any one of the following sequences: English 201,202; 205,206; 207,208; Fine Arts 202-202; Music 201-202; and Philosophy 201,202; or the student may choose any six-hour combination of Classical Civilization 200; French 251,252; German 251,252; Modern Languages 205,206; or Spanish 251,252.

Mathematics or Philosophy *four to six credits*

The student must choose either the Philosophy 101, 102 sequence or two of the following courses in mathematics: 110, 120, 130, or 220. A maximum of nine hours of 100-level mathematics courses may be applied toward the degree. At the discretion of the Mathematics and Philosophy Departments, a student may satisfy the requirement by placing beyond Mathematics 230 in the placement examination. (Any student who began the Philosophy 201-202 sequence before June, 1969, may elect to count this course as fulfillment for the Mathematics/Philosophy requirement instead of the Humanities requirement.)

Computer Science 200 or 220 *three credits*

Natural Science *eight to ten credits*

The student must choose one of these 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 or Chemistry 121-122 and 125-126; Physics 103-104 or 201-202; or any natural science laboratory course for non-majors. To complete the science requirement, a student may transfer eight to ten hours of freshman geology, astronomy, or other laboratory science course that considers one area of science through a full academic year.

Social Sciences *twelve credits*

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

Physical Education *two credits*

Effective with the 1970-71 catalogue, the former requirement of four semesters of physical education was reduced to two semesters, each semester course earning one credit and the appropriate quality points. Students who entered the College before September, 1970, will be required to present only two semesters of required physical education for completion of the degree. Students enrolled before June, 1967, are not required to meet this distribution requirement, thus reducing the number of hours required for the degree to one hundred and twenty semester credits. Students may receive credit for any Physical Education activities course by passing a proficiency test given by the Department of Physical Education.

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

The student should choose courses from the core curriculum which are in accord with his or her interests and intended specialty. Courses selected for core curriculum requirements may not be applied toward the requirements for a specialty. Care should be exercised to ensure that prerequisite courses have been completed.

Urban Analysis (select a minimum of three courses; at least two disciplines are recommended): Biology 306; Economics 351; Geography 351; History 434; Political Science 221, 451, or 461; or Sociology 431.

Quantitative Analysis (select one course in Computer Science and one course in statistics): Computer Science 350, 360, 430, 440; Mathematics 220; Psychology 231; Sociology 391; Political Science 352; or Business 408.

Normative Analysis (select a minimum of three courses): Philosophy 305, 306, or 440; or Political Science 358, 359.

Professional Specialties

The student must select one of the following specialties: Urban Management, Urban Planning, Law Enforcement, or Corrections.

For the **Urban Management** specialty, the pre-service student should select a minimum of six courses, including three with an asterisk, and either Political Science 490, 491, or 499; Business 351; Economics 302; Psychology 304 or 313; and Political Science 361, 363, 371*, 381*, 391*, 401*, 490, 491, 495, or 499. The in-service student should select a minimum of six courses from the foregoing in consultation with his or her adviser. Political Science 491 is recommended for pre-service students.

For the **Urban Planning** specialty, the pre-service student should select a minimum of eight courses, including Political Science 461 and the four courses with an asterisk: Political Science 334*, 335*, 336*, 361, 371, 391, 440*, 468, 490, 491, 495, and 499. The in-service student should select a minimum of six courses in consultation with his or her adviser. Political science 491 is recommended for pre-service students.

For the **Law Enforcement** specialty, the student who has not completed an associate degree in police science or its equivalent will be required to complete eight of the following law enforcement courses offered in the Virginia community college system: Police Organization and Administration; Introduction to Law Enforcement; Special Enforcement Problems; Prevention and Control of Juvenile Delinquency; Criminal Law I, II; Legal Evidence; Criminology; Traffic Administration and Control; Criminal Investigation, Principles and Advanced; Administration of Justice; Industrial and Commercial Security; Police and Community Relations; Narcotics and Dangerous Drugs. (Students already enrolled in the College who wish to take these courses should follow the procedures for taking courses elsewhere.) In addition to these requirements, the student specializing in law enforcement must take Political Science 346 and 468 and

must select two of the following courses: Psychology 304 or 313 with approval of adviser; and Political Science 342, 363, 406, 490, 491, 495, and 499. Political Science 491 is recommended for pre-service students.

For the specialty in **corrections**, the student who lacks significant law enforcement experience must complete two of the following law enforcement courses offered in the Virginia community college system: Police Organization and administration, I and II; Criminal Law, I and II; or Administration of Justice. In addition, the student who elects this specialty is required to complete two of the following courses offered in the Virginia community college system: Introduction to Corrections; Assessment of the Correctional Process; Treatment of the Offender; and Corrections and the Community. (Students already enrolled in the College who wish to take these courses should obtain approval for taking elsewhere.) In addition to these basic requirements, the student who pursues the corrections specialty must complete six of the following courses, with a minimum of two courses in psychology and two courses in sociology, one of which must be either Sociology 399 or Psychology 316: Psychology 304, 305, 307, 308, 309, 313, 403, or 405; and Sociology 220, 225, 319, 321, 326, 367, 399, 410, 411, or 422. Political Science 491 is recommended for pre-service students.

Urban Management Specialty

Course	Hours
<i>Freshman Year</i>	
English Composition	6
Algebra and Finite Mathematics	6
American Political Process	3
Principles of Economics	6
Physical Education	2
Principles of Psychology	3
Electives	6
	32
<i>Sophomore Year</i>	
Biology 101-102	8
Humanities	6
American History	6
Accounting	6
Introduction to Sociology	3
State and Local Government	3
	32
<i>Junior Year</i>	
Public Administration	3
Governmental Budgeting	3
Human Relations	3
Statistics	3
Computer Programming	3
Governmental Accounting	3

Law and Public Policy	3
Urban Economics or Public Finance	3
Political Thought, Philosophy	6

30

Senior Year

Public Personnel Administration	3
Public Management	3
Advanced Computer	3
Urban Geography or History	3
Environmental Conservation	3
Urban Sociology	3
Public Policy Analysis	3
Practicum	3
Elective	6

30

Urban Planning Specialty

Course	Hours
<i>Freshman Year</i>	
English Composition	6
Algebra and Finite Mathematics	6
American Political Process	3
Introduction to Sociology	3
Principles of Economics	6
Physical Education	2
Elective	3
	29
<i>Sophomore Year</i>	
Biology 101-102	8
Humanities	6
Introduction to Urban Planning	3
Statistics; Urban Sociology	6
Urban Economics	3
Political Thought	3
Elective	3
	32
<i>Junior Year</i>	
Planning and Design I, II	6
Theory & Techniques of Planning	6
Computer Programming	3
Governmental Budgeting	3
Ethics or American Philosophy	3
Urban Government & Politics	3
Environmental Conservation	3
Elective	3
	30
<i>Senior Year</i>	
Planning Administration	3

Public Policy Analysis	3
The Planning Process	3
Politics of Urban Planning	3
Criminal Justice Planning	3
Advanced Computer	3
Practicum	3
Electives	10-12

31-33

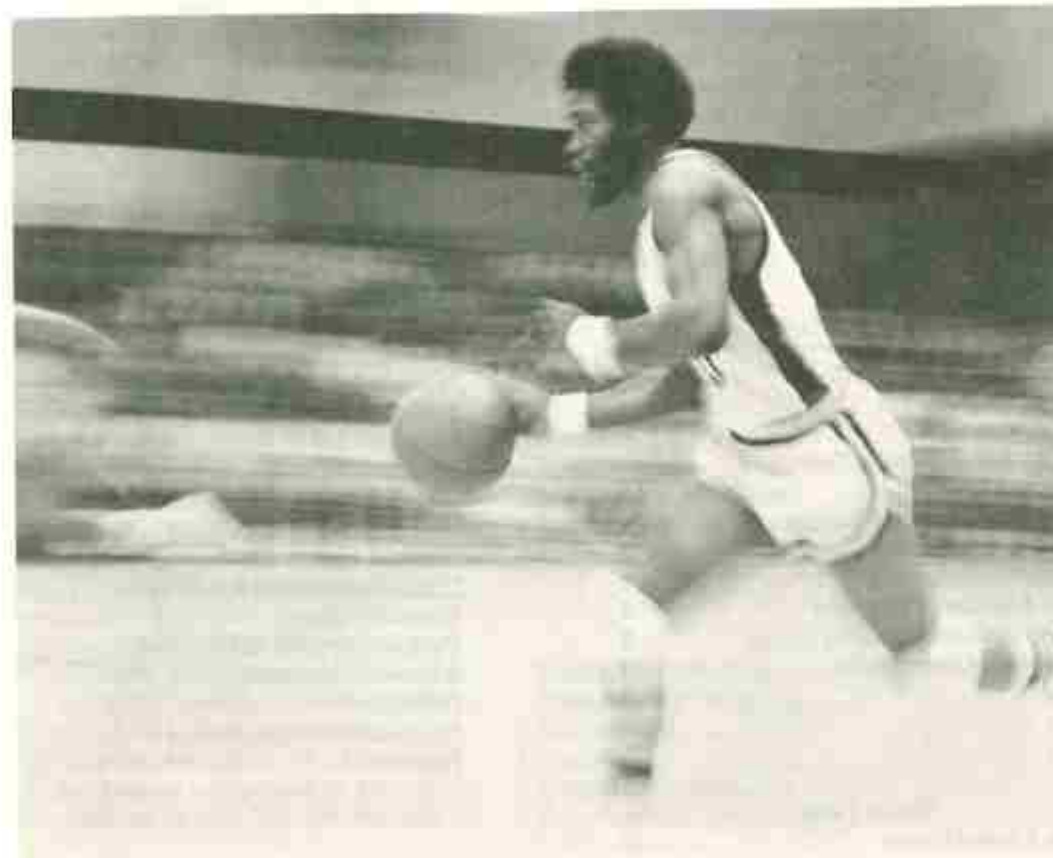
Law Enforcement Specialty

Course	Hours
<i>Freshman Year</i>	
English Composition	6
Algebra and Finite Math	6
American Political Process	3
Principles of Psychology	3
Biology 101-102	8
Physical Education	2
	28
<i>Sophomore Year</i>	
Humanities	6
American History	6
Introduction to Sociology	3
State and Local Government	3
Crime and Delinquency	3
*Law Enforcement	4
Electives	6
	31
<i>Junior Year</i>	
Criminal Justice	6
Computer Programming, Statistics	6
Public Policy Analysis	3
Law and Public Policy	3
Social Psychology, Human Relations	6
*Criminology and Evidence	4
*Criminal Law I, II	4
	32
<i>Senior Year</i>	
Criminal Justice	6
Urban Government & Politics	3
Urban Sociology	3
Political Thought; Ethics	6
Advanced Computer	3
Practicum	3
*Criminal Investigation I, II	4
Elective	3
	31

Corrections Specialty	
Course	Hours
<i>Freshman Year</i>	
English Composition	6
Algebra and Finite Math	6
American Political Process	3
Introduction to Sociology	3
Biology 101-102	8
Physical Education	2
Elective	3
	31
<i>Sophomore Year</i>	
Humanities	6
History or Economics	6
Psychology	6
Social Problems	3
Statistics	3
Electives	6
*Corrections	4
	34

<i>Junior Year</i>	
Crime and Delinquency	3
Sociology of Corrections	3
Computer Programming	3
State and Local Government	3
Law and Public Policy	3
Social Psychology	3
Political thought & Philosophy	6
*Criminal Law I, II	4
Elective	3
	31
<i>Senior Year</i>	
Social Welfare Institution	3
Practicum	3-6
Deviant Behavior	3
Black-White Relations	3
Urban Sociology	3
Urban Government and Politics	3
Advanced Computer	3
Abnormal Psychology	3
Elective	3
	27-30

*Courses offered by Virginia's community colleges.



40/Requirements for Degrees

Bachelor of Science in Business Administration

Distribution requirements are the same for all concentrations in the division (accounting, economics, finance, management, marketing, real estate, and retailing) and should be completed within the first two years or sixty hours of work. For the core curriculum of each concentration, the student is referred to the appropriate section in the departmental listings. The range of courses which satisfy the distribution requirements is listed below:

English six credits

The student must complete English 101-102.

Humanities six credits

The student may select a six-hour sequence from the following courses: Classical Studies 200; English 201, 202; 205, 206; 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; or may take one of the courses listed previously and Speech 201.

Mathematics six credits

The student must complete Mathematics 110 and 220. At the discretion of the department chairman, the student may substitute an equivalent or higher course for Mathematics 110.

Business 108 three credits

Computer Science 220 three credits

Natural Sciences Division eight credits

The student must 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 chairman to substitute an upper-level laboratory course for Biology 102); Chemistry 103-104 and 105-106 or Chemistry 121-122 and 125-126; Physics 103-104 or 201-202; or any laboratory science course for non-science majors. Freshman geology, astronomy, or other laboratory science courses that consider one area of science through the full academic year may be accepted as transfer credit.

Social Sciences Division twelve credits

The student may choose one of these six-hour sequences: History 101, 102 or 201, 202; Sociology 200 and any other 200-level sociology course; Psychology 201-202; or any two-semester sequence of Political Science selected in consultation with the student's adviser. In addition the student must then 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 credits

Effective with the 1970-71 college catalogue, the former requirements of four semesters of physical education was reduced to two semesters, each semester course earning one credit and the appropriate quality points. Students who entered the College before September, 1970, will be required to present only two semesters of required physical education for completion of the degree. Students enrolled before June, 1967, are not required to meet this distribution requirement, thus reducing the number of hours required for the degree to one hundred and twenty.

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

Associate in Arts Degrees

Christopher Newport College is authorized to confer the Associate of Arts degree in Liberal Arts and in Retailing. Full information on the Retailing program may be found in the Retailing portion of the catalogue (see *Courses of Instruction*). The following information pertains to the Associate of Arts degree requirements in Liberal Arts.

A student in this program may choose to fulfill the general degree requirements set forth in the catalogue in effect when he or she entered 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 catalogue.

General Requirements for Graduation

A minimum of sixty-two semester credits is required for the degree. Of these sixty-two semester credits, sixty must be in academic subjects and two in required physical education activities courses. A minimum of one hundred and twenty-four grade points (a 2.0 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 thirty 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-two hours, will be given for courses which carry a passing grade and are comparable to courses offered by 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 correspondence 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 Associate Dean of Academic Affairs.

Distribution Requirements

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

English six credits

The student must complete English 101-102 unless exempted by the English Department on the basis of tests, previous record, and other criteria.

Humanities six credits

The student may choose one of these six-hour sequences: English 201, 202; 205, 206; 207, 208; Fine Arts 201, 202; Music 201-202; Philosophy 201, 202; or any six-hour combination of Classical Civilization 200; French 251, 252; German 251, 252; Modern Languages 205, 206; or Spanish 251, 252.

Mathematics or Philosophy four to six credits

The student may choose Philosophy 101-102 or any two of these Mathematics courses: 110, 120, 130, and 220; or Mathematics 230 alone. A maximum of nine semester credits of 100-level mathematics courses may be applied toward the degree. At the discretion of the Mathematics Department, the requirement may be satisfied when a student places beyond Mathematics 230 on the placement examination. Any student who began the Philosophy 201-202 sequence before June, 1969, may elect to count this course as fulfillment of the Mathematics/Philosophy requirement instead of the Humanities requirements.

Natural Sciences eight to ten credits

The student may choose one of these sequences: Biology 101-102 (a student who makes an A or B in Biology 101 may receive permission from the department to substitute an upper-level laboratory course for 102); Chemistry 103-104 and 105-106 or 121-122 and 125-126; Physics 103-104 or Physics 201-202; or any natural science laboratory course

for non-science majors. A transfer student may also complete this requirement by completion of eight or ten hours in freshman geology, astronomy, or other laboratory science courses that consider one area of science through the full academic year.

Social Sciences six credits

The student may choose one of these sequences: Economics 201-202; History 101, 102 or 201, 202; Sociology 200 and any other 200-level sociology course; Psychology 201-202; or any two-semester sequence in Political Science selects in consultation with the student's adviser.

Physical Education two credits

The physical education requirement must be met unless an exemption or postponement has been granted by the Committee on Degrees. Effective with the 1970-71 catalogue, the former requirement of four semesters of physical education was reduced to two semesters, each semester course earning one credit and the appropriate quality points. Students who entered the College before September, 1970, will be required to present only two credits for completion of the degree. Students enrolled before June, 1967, are not required to meet this distribution requirement, thus reducing the number of hours required for the degree to sixty semester credits. Students may earn credit for Physical Education activities courses by passing departmental proficiency examinations.

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

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 parentheses 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

Arts and Letters

Classical Studies

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 those 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.

A student may satisfy the Language Distribution Requirement by completing Latin 202 or its equivalent. All students who have previously studied Latin should consult the Department Chairman for proper placement. It is possible to obtain up to ten hours credit through satisfactory performance on a placement examination.

Classical Civilization

The following courses do *not* require knowledge of Latin or Greek and are conducted entirely in English. Classical Civilization 200 will satisfy three hours of the Humanities Distribution Requirement.

100. Word Origins and Meanings. [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.

200. Mythology. [3-3-0]

Taught both semesters.

A thorough study of the principal classical myths, their Eastern origins and connections with Graeco-Roman civili-

zation, and their subsequent influence on Western culture: literary, artistic, anthropological, and psychological. Includes a unit on Norse mythology.

zation, and their subsequent influence on Western culture: literary, artistic, anthropological, and psychological. Includes a unit on Norse mythology.

301, 302. The Ancient World. [3-3-0] [3-3-0]

Same as History 301, 302. 301 taught fall semester and 302 taught spring semester, 1975-76.

Ancient 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, 304. Classical Drama. [3-3-0] [3-3-0]

303 taught fall semester and 304 taught spring semester, 1976-77.

Reading and discussion of major works of Aeschylus, Sophocles, Euripides, Aristophanes, Seneca, Plautus, and Terence. Exploration of the origins, nature, and function of classical drama and of its influence upon subsequent literature of the Western world.

Latin

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

101 taught fall semester and 102 taught spring semester, 1976-77.

Programmed course utilizing self-teaching techniques to communicate the fundamentals of the language; individualized instruction; multi-media approach; wide variety of cultural materials; emphasis on building English vocabulary.

201. Intermediate Latin. [3-3-0]

Prerequisite: Latin 101-102 or two years of high school Latin. Taught fall semester, 1975-76.

Review of grammatical structure combined with readings from major Latin authors.

202. Latin Readings. [3-3-0]

Prerequisite: Latin 201 or three years of high school Latin. Taught spring semester, 1975-76. Readings in the works of a single Latin author. Parallel discussion of literary, cultural, and political elements.

English

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 pre-professional major, English provides invaluable training in the preparation for four outstanding professional areas: education, law, medicine, and business. 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.

A major in English requires satisfactory completion of English 101-102 and continued competence thereafter in written and oral expression, one six-hour sequence of the sophomore-level courses (201, 202, or 205, 206, the latter strongly recommended); and at least thirty but not more than forty-two further credits in courses above the 200-level in this department, with not more than six credits in writing courses above the sophomore level. Transfer students who major in English are required to complete both 201 and 202; such students could 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 rating. The student majoring in English is required to take six semester hours of *Shakespeare* [421, 422] or three semester hours of *Shakespeare* and three semester hours of either *Chaucer* [401] or *Milton* [426]. English 490, *Senior Seminar*, is required of all majors; either 430 or 431 is required for those who plan to teach English in the Virginia secondary

schools. *Shakespeare* and the *Senior Seminar* will be offered every year; all other upper-level courses will be offered every other year except when emergency situations prevent such repetition.

A balanced program that takes into account the student's abilities and career objectives will be worked out with the department adviser, 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, and speech, will be recommended by the adviser.

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) through the CLEP testing program, details of which can be learned through the Counseling Office; (2) through the successful completion of Advanced Placement English in senior high school and the earning of an adequate score on the Advanced Placement Examination of the College Entrance Examination Board; or (3) through the earning of an outstanding record of A's and B's in a college-bound English section all the way through senior high school and of a College Board Verbal Score of approximately 600 or above. In the third case, students 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.

Superior students, upon application to the chairman of the English Department and at the discretion of the department, may be allowed advanced placement and, in some cases, credit for 101-102. A student who gets a B or better in 101 may be allowed with the permission of the instructors and the Dean of Academic Affairs to take 102 and 201 (or 205 or 207) simultaneously. English majors may take English 205, 206 as Humanities 205, 206 and count both it and English 201, 202 as part of the one hundred and twenty-two academic hours required for graduation.

Students who plan to teach in Virginia public schools must take History 201, 202 to fulfill their social science requirement and mathematics to fulfill the distribution requirement in philosophy or mathematics.

Sample Program for English Majors

Course	Hours
<i>Freshman Year</i>	
English 101-102	6

Laboratory Science	8
Ancient or Modern Foreign Language	8
Social Science requirement	6
Physical Education	2

30

Sophomore Year

English 201-202 or Humanities 205-206	6
Social Science requirement	6
Foreign Language	6
Philosophy 101-110 or Math distribution requirement (Virginia certification)	6
Humanities	9

33

Course Hours

Junior Year

300- and 400-level English courses	15
300- and 400-level electives	15

30

Senior Year

English 421-422 or English 421 or 422 AND English 401 or English 426	6
English 490	3
300- or 400-level English electives	6
300- or 400-level electives	15

30

101-102. *Composition, Rhetoric, and Literature*. [3-3-0] [3-3-0]. Taught both semesters.

A study of the basic principles of composition and rhetoric and an introduction to the major literary forms, with frequent themes arising from this study. Required of all students unless exempted by the English Department. No student may take English 102 unless he or she has passed or earned credit for English 101.

201, 202. *English Literature*. [3-3-0] [3-3-0]

Prerequisite: English 101-102. Taught both semesters. A survey of English literature, emphasizing the major writers and the dominant literary trends; first semester from *Beowulf* through Boswell and Johnson; second semester from Burns to present.

205, 206. *Survey of World Literature*. [3-3-0] [3-3-0]

Prerequisite: English 101-102. Taught both semesters. A study of literary masterpieces of the Western and Eastern world 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]

Prerequisites: English 101-102. 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, and nature. Especially recommended for non-English majors as their humanities distribution requirement.

209. *Advanced Composition*. [3-3-0]

Prerequisite: English 101-102. Taught spring semester. A study of the principles of English composition as a continuation of the study and practice of these principles in English 101-102. Especially recommended to liberal arts majors who completed their 101-102 requirement before coming to the College and to all majors who need further training and practice in correct and effective writing.

300. *The Bible as Literature*. [3-3-0]

Prerequisite: At least one course in the 201-208 sequence. Taught in 1976-77. A literary study of the Old and the New Testament with emphasis upon artistic and humanistic merits of these collections.

301. *English Literature of the Sixteenth Century*. [3-3-0]

Prerequisite: At least one course in the 201-208 sequence. Taught in 1975-76. 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. Taught in 1975-76. 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 1975-76. 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 1975-76. A critical and historical study of the prose, poetry, and drama created in England between 1740 and 1798, with some emphasis on the novel.

311. *English Literature of the Romantic Movement*. [3-3-0]

Prerequisite: At least one course in the 201-208 sequence. Taught in 1976-77. A critical and historical study of the major Romantics (from Blake through Keats) with attention also to the Romantic novel, drama, and essay.

323. English Literature of the Victorian Age. [3-3-0]
Prerequisite: At least one course in the 201-208 sequence.
Taught in 1976-77.
A critical and historical study of the drama, poetry, and prose (including the novel) 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 spring semester.
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 1976-77.
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 1975-76.
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.
Taught in 1975-76.
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 1976-77.
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.
Taught fall semester.
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.
Taught spring semester.
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 1976-77.
A critical and historical analysis of American writers from Edwin Arlington Robinson to the recent past.

351. Fiction Writing. [3-3-0]
Same as Creative Writing 351. Prerequisite: English 101-102 and consent of instructor. Taught in 1975-76.
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]
Same as Creative Writing 352. Prerequisite: English 101-102 and consent of instructor. Taught in 1976-77.
Intensive exercises in the writing of poetry. Analysis of temporary techniques. Manuscripts read and discussed in class.

353. Business and Technical Writing. [3-3-0]
Prerequisite: English 101-102. Taught both semesters.
A study and practice of the writing of correct, effective, and jargon-free English as applied to business letters and business forms, reports, case studies, projects, and the like. Especially valuable to business majors, but suggested also to majors in such areas as psychology and sociology.



46/English

401. Chaucer. [3-3-0]
Prerequisite: At least one course in the 201-208 sequence.
Taught in 1976-77.
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. Required of all English majors.

426. Milton. [3-3-0]
Prerequisite: At least one course in the 201-208 sequence.
Taught in 1975-76.
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 201-208 sequence.
Taught fall semester.
An introduction to the English language, with studies in linguistics, grammar (traditional, structural, and generative-transformational), and developments related to social changes. An emphasis on grammar and its relation to writing and the teaching of correct standard speech and writing.

451. Structural History of the English Language. [3-3-0]
Prerequisite: At least one course in the 201-208 sequence.
Taught spring semester.
An historical study of the development of the English language in England and the United States.

490. Senior Seminar. [3-3-0]
Prerequisite: English majors with senior standing.
Taught both semesters.
A seminar course concentrating on the intensive study of British and American authors and requiring a major research paper on one author by each student. An oral examination in language and literature is the final examination of the course, and students must pass the examination in order to earn grades of A or B on the course. Required of all English majors.

495. Special Topics in British and American Literature. [3-3-0]
Prerequisite: At least one course in the 201-208 sequence.
Taught both semesters.
A seminar in major authors, literary concepts, or topics related to historical periods, with subject matter and instruction 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.

Fine and Performing Arts

[Theatre Arts, Fine Arts, Music, Speech,
Creative Writing, Cinema]

The Department of Fine and Performing Arts considers the arts in a critical and historical perspective as a record of man's experience and perceptions. The Department attempts to lead students to their own form of artistic creation through technical competence and self-awareness so that they can take their own measure of themselves and the world in which they live.

The Department offers a major and a minor program in Theatre Arts and minor programs in Fine Arts and Music. Speech, Creative Writing, and Cinema courses are offered as general electives. Certain Creative Writing courses are cross-listed as English and Theatre Arts courses.

Special topics courses, offered as Elementary Topics (395) and Advanced Topics (495), vary from year to year. The subjects and contents of these courses are determined by the special interests of students and by the expertise of faculty members.

Theatre Arts Major

The Theatre Arts major requires the completion of college distribution requirements for a Bachelor of Arts degree in addition to forty-two hours in Theatre Arts courses, including 111, 112, 113, 218, 223, 320, and 323; the remaining twenty-one hours, fifteen of which must be upper-level courses, are to be distributed as follows: upper-level courses, are to be distributed as follows: twelve in an area of primary concentration, six in an area of secondary concentration, and three in an area of tertiary concentration. Concentration areas are acting, directing, and design. Twelve hours of dramatic literature from the following are strongly recommended: English 327, 421, 422; Classical Studies 303, 304; French 361, 381, 492; Spanish 363; and Cinema 336.

Theatre Arts Minor

A minor in Theatre Arts consists of fifteen to twenty-one hours of Theatre Arts courses above the 100 level. Theatre Arts 111 and 112 are prerequisites for all other Theatre Arts courses.

Fine Arts Minor

A minor program in Fine Arts requires the student to have six hours in Fine Arts 201, 202, six hours of studio courses, and electives of six to nine hours in any combination of art history or studio art.

The purpose of the art history electives is to give the student an opportunity to study thoroughly some periods of art expression. The courses in studio art offer the student an opportunity to develop a personal, individualized form of visual communication.

Music Minor

The minor program in Music will consist of twenty-two to twenty-four hours above the 100 level. The following courses are required: 211-212, *Elementary Theory of Music* (eight credits), 303-304, *History of Western Music* (six credits), 200, *Mixed Chorus* (two to four credits), 231, 232, *Applied Music* (Piano, Voice, Violin, Organ), 331, 332, *Applied Music* (Piano, Voice, Violin, Organ), and 431, 432, *Applied Music* (Piano, Voice, Violin, Organ) (six credits).

The student whose applied area is piano must take a minimum of six credits in piano; the student whose applied area is voice, violin, or organ must take a minimum of four credits in the respective area and must take two credits in piano. The student will receive one credit per semester in *Applied Music* for one thirty-minute lesson per week.

Applied Music may be taken to a maximum of eight credits applicable toward a degree. Within this framework, 100- and 200-level courses can be repeated up to the maximum of four credits. Student placement in courses must be determined by the instructor through an audition. Prerequisite or corequisite for all of these courses is 211-212 (*Elementary Theory of Music*) or the passing of a competency test in theory.

Courses in *Applied Music* (Voice, Piano, Organ, or Violin) require an *Applied Music* fee of \$98.00 per semester and \$23.00 for one semester credit.

Sample Program for Theatre Arts Major

Course	Hours
Freshman Year	
English 101-102	6
Math or Philosophy	4-6
Social Science or Foreign Language	6-8
Theatre 111, 112, 113	9
Physical Education 150, 152, or 180	2
	27-31
Sophomore Year	
Humanities	6
Social Science or Foreign Language	6
Theatre Arts 218, 223, 321	9
Electives	9-12
	30-33
Junior Year	
Theatre Arts 323 + 12 hrs. in concentrations	15
Laboratory Science	8
Electives	9
	32
Senior Year	
Theatre Arts electives	9

Theatre Arts 499	3
Electives	18
	30

Theatre Arts

111. Introduction to the Theatre. [3-3-0]

Taught fall semester.

A consideration of the materials of creative expression in the theatre. A combination of technical, performance and historical materials with the specific goal of helping the student to decide upon an area of specialization in the theatre. Emphasis on dramatic literature and its transformation into theatre art.

112. Introduction to Technical Production. [3-0-3]

Taught spring semester.

Study and practice of the technical components of the theatre: set design and execution, scene painting, costume, lighting design and execution, sound and stage management.

113. Acting I. [3-0-3]

Prerequisite: Theatre Arts 111. Taught first semester. Critical analysis and appreciation of acting developed by the presentation of individual and group scenes. Development of the essentials of the actor's craft: concentration, observation, imagination and characterization.

213. Intermediate Acting: Realism and Naturalism. [3-0-3]

Prerequisite: Theatre Arts 113. Taught fall semester, 1975-76.

An in-depth study of realistic acting techniques, particularly modern interpretations of the Stanislavski method. Students will perform a wide range of realistic scripts ranging from the early works of Chekhov and Ibsen to modern drawing room comedy.

218. Basic Drawing and Design. [3-2-4]

Same as Fine Arts 218. Taught fall semester.

A foundation course in the fundamentals of design and drawing techniques as they relate to the problems in communications as a basis for further studio or theatre problems.

223. Improvisation Techniques. [3-0-3]

Prerequisite: Theatre 111. Taught spring semester. A study of non-scripted theatrical forms and practices. In addition to theatrical application, the value and function of improvisation as a teaching device in other disciplines will also be investigated.

224. Music Theatre. [3-1-2]

Prerequisite: One semester of acting. Taught summer session.

The study and practice of performance techniques of the

opera, musical comedy, and revue. Emphasis is placed on the special problems of staging musical performance, book execution, and effective presentation of the musical number.

313. Advanced Acting: Repertory Techniques. [3-0-3]

Prerequisite: Six hours of acting, which can include Music Theatre. Taught spring semester, 1975-76.

Study and practice of advanced acting techniques. Emphasis is placed on philosophy of repertory theatre, ensemble performance, and other factors peculiar to repertory theatre.

314. Advanced Acting: Accents and Dialects. [3-0-3]

Prerequisite: Six hours of acting. Taught fall semester, 1975-76.

An introduction to and study of the various accents and dialects the actor needs to be able to perform in the modern theatre. The nature and peculiarities of the accent/dialect will be studied prior to practice in use of the accent.

318. Scenography. [3-1-2]

Prerequisite: Theatre 112. Taught fall semester, 1975-76. Integration of concepts and practices studied in the first two years of the design curriculum. Emphasis is placed on total production design: settings, lights, costumes, properties, and sound.

320. Anatomy for the Performer: Make-up and Mask. [3-1-2]

Prerequisite: Theatre 111. Taught spring semester, 1976-77.

The study of human anatomy, its structure and movement, relative to the performer. Study of the head leads to the study of make-up and mask techniques. The rest of the body is studied relative to stage movement and dance and costume.

321. Life Drawing. [3-0-6]

Same as Fine Arts 321. Prerequisite: 218 or consent of instructor. Taught spring semester.

An introduction to drawing the human figure with attention to both its design and anatomy.

323-324. Direction. [3-1-2] [3-1-2]

Prerequisite: Theatre 111 and 112. 323 taught fall semester and 324 taught spring semester, 1976-77.

Study and practice of choosing the play, casting, rehearsals and performance. Special emphasis on the direction of one-act plays.

326. Creative Dramatics. [3-1-2]

Same as Education 326. Prerequisite: Theatre III. Taught summer sessions.

Examination of special methods of constructing theatrical events with and for children. Emphasis is placed on development of the imagination and communication abilities

of the child, both in the theatre and in the classroom.

358. Playwriting. [3-1-2]

Prerequisite: Theatre 111. Taught fall semester, 1976-77. Study and practice of writing for the theatre. Accepted styles of dramaturgy may be studied with a particular eye to the evolution of style. Student works will be read in class for evaluation and criticism; students will be expected to complete one full-length or two one-act plays per semester.

414-415. Styles of Acting, Directing, and Design I and II.

Prerequisite: Upper class standing in Theatre Arts. Taught in 1976-77.

Each course is a study of one of the major styles of the Western Theatre. Each student approaches the class work in terms of his or her major emphasis: acting, directing, or design.

499. Individual Projects.

Prerequisite: Consent of instructor. Offered upon demand.

Individual construction, performance, or research project under the guidance of a faculty member. Credits will vary.

Fine Arts

201, 202. Introduction to the Arts. [3-3-0] [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.

218. Basic Drawing and Design. [3-2-4]

Same as Theatre Arts 218. Taught fall semester.

A foundation course in the fundamentals of design and 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.

321. Life Drawing. [3-0-6]

Same as Theatre Arts 321. Prerequisite: Fine Arts 218 or consent of instructor. Taught spring 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.

371. *Modern Art.* [3-3-0]

Prerequisite: History 101, 102; Fine Arts 201, 202; or consent of instructor. Taught spring semester, 1976-77.

A study of the development of modern art, reflecting the social, political, and economic revolutions of the late 18th, 19th centuries to the present. Attention is also given to changing 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 instructor. Taught spring semester, 1975-76.

A study of the major and minor forms from colonial times to World War II as these forms reflect the varieties of the American experience.

373. *Arts of Humanism.* [3-3-0]

Prerequisite: History 101-102; Fine Arts 201-202; or consent of instructor. Taught fall semester, 1975-76.

A course in art history beginning with the early renaissance and following the development of art forms through the 17th century. Attention is given to the changing role of the artist in society and to the political, economic, and social changes in Europe as they are reflected in the arts.

374. *Arts of the Non-Western World.* [3-3-0]

Prerequisite: Fine Arts 201, 202; History 101, 102; or consent of instructor. Taught fall semester, 1976-77.

A survey of those art forms exclusive of the concepts of traditional western civilization. A study of primitive peoples' art forms as well as those of complex civilizations. The arts of India, China, Japan, Africa, Oceania, and pre-Columbian America will be considered both within the context of our concepts and their own.

401. *Individual Problems in Painting.* [3-0-6]

Prerequisite: Fine Arts 323 and consent of instructor. Taught both semesters.

Special individualized problems in painting.

402. *Individual Problems in Art History.*

Prerequisite: Six hours upper-level art history and consent of instructor. Taught both semesters.

Particular aspects of art history selected by the student within the limitations established by the instructor. Credits will vary.

Music

200. *Mixed Chorus.* [1-0-3]

Taught both semesters.

The study and performance of works by great composers of choral literature. Diction, phrasing, breath control, dynamic expression, and tone production will be emphasized. No more than four credits may be offered toward graduation.

201-202. *Introduction to Music.* [3-3-0] [3-3-0]

201 taught fall semester and 202 taught spring semester.

This course traces the development of the art of music through the various historical periods and familiarizes the student with the more important composers and their works. A synopsis of style, form, and theory is included.

211-212. *Elementary Theory of Music.* [4-3-2] [4-3-2]

Prerequisite: Consent of instructor. 211 taught in fall semester and 212 taught in spring semester, 1976-77.

A review of the rudiments of music. Simple chords, seventh chords, non-harmonic tones, part writing, analysis of chords, analysis of chorales, sight reading, dictation, and keyboard harmony will be studied.

303-304. *History of Western Music.* [3-3-0] [3-3-0]

Prerequisite: Music 201-202, Music 211-212, or consent of instructor. 303 taught in fall semester and 304 taught in spring semester, 1975-76.

Survey of music styles, composers, and music literature from the ancient civilizations through the twentieth century.

131, 132; 231, 232; 331, 332; 431, 432. *Piano.*

Prerequisite or corequisite: Music 211-212 or the passing of a competency test in theory. Taught both semesters. One thirty-minute lesson per week. One credit per semester.

ter. Audition required. Individual instruction. Technical studies determined by instructor. Compositions determined by instructor according to individual competency, progressing from the easier to more advanced works of piano literature.

131, 132; 231, 232; 331, 332; 431, 432. *Voice.*

Prerequisite or corequisite: Music 211-212 or the passing of a competency test in theory. Taught both semesters.

One thirty-minute lesson per week. One credit per semester. Audition required. Individual instruction. Vocalises and technical exercises determined by instructor. Vocal repertoire determined by instructor according to individual competency, progressing from the Art Song in English and Italian through the Art Song in German and French as well as representative repertoire from opera and oratorio.

131, 132; 231, 232; 331, 332; 431, 432. *Violin.*

Prerequisite or corequisite: Music 211-212 or the passing of a competency test in theory. Taught both semesters.

One thirty-minute lesson per week. One credit per semester. Audition required. Individual instruction. Technical studies determined by instructor. Compositions determined by instructor according to individual competency, progressing from the easier to more advanced works of the violin repertoire.

131, 132; 231, 232; 331, 332; 431, 432. *Organ.*

Prerequisite: Music 211-212 or the passing of a competency test in theory. Taught both semesters.

One thirty-minute lesson per week. One credit per semester. Audition required. Individual instruction. Technical studies determined by instructor. Compositions determined by instructor according to individual competency, progressing from the easier to more advanced works of organ literature.

Speech

201. *Public Speaking.* [3-3-0]

Taught both semesters.

Study of verbal and non-verbal communication as it applies to the public speaker. Construction and delivery of original speeches of various types. Recommended for all who communicate with small and large groups.

203. *Oral Interpretation of Literature.* [3-3-0]

Taught spring semester, 1976-77.

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.

Creative Writing

351. *Fiction Writing.* [3-3-0]

Same as English 351. Taught spring semester, 1975-76.

Intensive exercises in the writing of fiction, with emphasis on the short story. Attention to selected examples of contemporary authors. Manuscripts read and discussed in class. Individual conferences. Open to sophomores with the approval of the instructor.

352. *Poetry Writing.* [3-3-0]

Same as English 352. Taught spring semester, 1976-77.

Intensive exercises in the writing of poetry. Analysis of contemporary techniques. Manuscripts read and discussed in class. Individual conferences. Open to sophomores with the approval of the instructor.

358. *Playwriting.* [3-3-0]

Same as Theatre Arts 358. Taught fall semester, 1976-77.

Study and practice of writing for the theatre. Accepted styles of dramaturgy may be studied with a particular eye to the evolution of style. Student works will be read in class for evaluation and criticism; student will be expected to write one full-length or two one-act plays.

Cinema

336. *The Cinema Since 1945.* [4-3-2]

Taught spring semester, 1976-77.

A study of the cinema as an art form and of its development since World War II. Special attention given to the works of Kurosawa, Bergman, Resnais, Fellini, Antonioni, and Godard.

History

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. Detailed study is offered in European, American, Latin American, and Asian history in addition to study of the contemporary world.

For a Bachelor of Arts degree in History a minimum of twenty-four hours in history above the 200 level, including History 490 (Senior Seminar) is required. 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) 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.

History majors desiring certification in history must take the courses required by the State of Virginia as outlined in the sample program for teacher certification, 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.

History majors desiring certification in history and social science must take the courses required by the State of Virginia as outlined in the sample program for teacher certification, including three hours in mathematics; six hours in economics; twelve hours in political science; six hours in geography; 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	6
Laboratory Science	8
History 101-102	6
Foreign Language	8
Physical Education	2
	30
Sophomore Year	
History 201-202	6
Humanities Electives	6
Social Science Electives	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 with Teacher Certification

Course	Hours
--------	-------

Freshman Year	
English 101-102	6
Laboratory Science	8
History 101-102	6
Foreign Language	8
Physical Education (Activities Course)	2
	30
Sophomore Year	
History 201-202	6
Humanities electives	6
Math or Philosophy	6
Social Science electives	6
Foreign Language	6
Physical Education 321 (Foundations of Health)	3
	33
Junior Year	
History Electives	12
Communications 201	3
Psychology 201	3
Psychology 307 (Developmental) or Psychology 309 (Adolescent)	3
Education 312 (Educational Psychology)	3
Education 341 (Cultural Foundations)	3
Electives	3
	33
Senior Year	
History electives	9
History 490 (Senior Seminar)	3
Education 303 (Instructional Materials) 1st Semester	3
Education 401S (Supervised Teaching) 2nd Semester	6
Education 403H (Methods of Teaching in Secondary School) 2nd Semester	3
Education 414 (Educational Measurements) 2nd Semester	3
Elective	3
	30

European History

101. *History of Western Civilization to 1715.* [3-3-0]
Prerequisite: None. Taught in fall semester.
A survey of the history and 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]

Prerequisite: None. 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. *The Ancient World.* [3-3-0] [3-3-0]

Same as Classical Civilization 301, 302. Prerequisite: History 101, 102; junior standing; or consent of instructor. Taught both semesters.

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]

Prerequisites: History 101, 102; junior standing; or consent of instructor. Taught fall and spring semester, 1975-76.

First semester deals with the decline of Rome, the Germanic invasions, Justinian, Islam, Charlemagne and the Stabilizing of Europe. Second semester takes up Medieval culture, the Feudal Kingdoms, clash of Empires and Papey, the Hundred Years War and the waning of the Middle Ages.

313. *The Renaissance.* [3-3-0]

Prerequisites: History 101, 102, junior standing, or consent of the instructor. Taught fall semester, 1976-77.
A study of the history and civilization of the Renaissance in Italy and in northern Europe. The course will consider the many facets of Renaissance life and activity.

314. *The Reformation.* [3-3-0]

Prerequisite: History 101, 102; junior standing; or consent of the instructor. Taught spring semester, 1976-77.
A study of the background, history, and ideas of the Protestant Reformation and the Catholic Reformation through the early seventeenth century.

315, 316. *Early Modern Europe, 1600-1815.* [3-3-0] [3-3-0]

Prerequisite: History 101, 102, junior standing or consent of instructor. Taught fall and spring semester, 1976-77.
First semester focuses upon the development of absolutism and constitutionalism, the scientific revolution, and the impact of political and scientific developments on social and cultural patterns of political 17th and 18th century European society. Second semester focuses on the Enlightenment and on the era of the French Revolution and Napoleon.

317. *Nineteenth Century Europe.* [3-3-0]

Prerequisite: History 101, 102; junior standing; or consent of instructor. Taught fall semester, 1976-77.
A study of the Congress of Vienna of 1815, Nationalism, Industrialism, Marx, Darwin, the Revolutions of 1848 and

the Restructuring of the European state system after the unification of Italy and Germany.

318. *The Era of World War I.* [3-3-0]

Prerequisite: History 101, 102; junior standing, or consent of instructor. Taught spring semester, 1976-77.
Europe in the age of Nationalistic Rivalry, Imperial Expansion, the rise of the working classes, the First World War, The Russian Revolution, and the Versailles Settlement.

319. *Europe From 1919-1945.* [3-3-0]

Prerequisite: History 101, 102; junior standing; or consent of instructor. Taught fall semester, 1976-77.
Europe between the wars, establishment of communist Russia, the rise of fascism and nazism, the collapse of the Versailles Settlement, the Second World War.

395. *Topics in European History.* [3-3-0]

Prerequisite: History 101, 102; 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.

410, 411. *Russian History.* [3-3-0] [3-3-0]

Prerequisite: History 101, 102; junior standing; or consent of instructor. Taught spring and fall semester, 1976-77.
First semester begins with Kiev and proceeds through the medieval period, the Time of Troubles, the beginning of the Romanovs, and Westernization under Peter and Catherine to the reign of Alexander I. Second semester covers Russian history during the 19th and 20th centuries and includes the rise of radicalism, the Revolutions of 1905 and 1917, the nature of Russian communism, and Russia under the Soviet system.

412, 413. *England Under the Tudors and Stuarts.* [3-3-0] [3-3-0]

Prerequisite: History 101, 102, junior standing; or consent of instructor. Taught both semesters, 1975-76.
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, 416. *History of Modern Britain, 1714 to the Present.* [3-3-0] [3-3-0]

Prerequisite: History 101, 102; junior standing; or consent of instructor. Taught both semesters, 1976-77.
A study of British history, politics, culture, and empire from the early eighteenth century to the present. Second semester begins with the accession of Queen Victoria.

421, 422. *Intellectual History of Europe.* [3-3-0] [3-3-0]

Prerequisite: History 101, 102; junior standing; or consent

of instructor. Taught both semesters, 1975-76.
An historical analysis of European political, social, religious, and scientific thought. The course focuses primarily on the interactions of ideas and the social reality from which they emerged.

American History

201. *American History*. [3-3-0]

Prerequisite: Sophomore standing or consent of instructor. 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*. [3-3-0]

Prerequisite: Sophomore standing or consent of instructor. Taught both semesters.

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.

320. *Colonial America*. [3-3-0]

Prerequisite: History 201, junior standing, or consent of instructor. Taught spring semester, 1975-76.

A study of the origins and development of the American colonies, some analysis of Puritanism, introduction of slavery, and provincial developments.

321. *The Revolution, Constitutional, and Federal Eras, 1763-1800*. [3-3-0]

Prerequisite: History 201, junior standing, or consent of instructor. Taught fall semester, 1976-77.

A study of the backgrounds of the American Revolution, the Revolution itself, the Confederation, and an analysis of the new government as administered by the Federalists.

322. *The Early National Period, 1800-1840*. [3-3-0]

Prerequisite: History 201, junior standing, or consent of instructor. Taught spring semester, 1976-77.

An analysis of the Jeffersonian and Jacksonian eras.

323. *Civil War and Reconstruction*. [3-3-0]

Prerequisite: History 201, 202; junior standing; or consent of instructor. Taught fall semester, 1975-76.

An intensive study of slavery and expansion. Social and intellectual developments of the era, the Civil War and Reconstruction.

324. *Industrial America, 1877-1919*. [3-3-0]

Prerequisite: History 201, 202; junior standing or consent of instructor. Taught fall semester, 1975-76.

A study of the impact of industrialization, urbanization, and immigration of American society, the thrust of the U.S. beyond its border, and the political, intellectual, and social response to these forces.

325. *Recent America, 1919 to the Present*. [3-3-0]

Prerequisite: History 201, 202; junior standing; or consent of instructor. Taught spring semester, 1975-76.

The United States since World War I with emphasis on internal problems (e.g., economic and racial) and an analysis of the role of the United States as a world power.

328. *Discovery & Exploration of North America to 1625*. [3-3-0]

Prerequisite: History 201, junior standing, or consent of instructor. Taught fall semester, 1975-76.

An analysis of the major voyages of exploration and expeditions of discovery in North America from 1000 A.D. to 1625. The course focuses on the growth of European knowledge of North America and concludes with the establishment of permanent European colonies in North America.

340, 341. *Economic History of the United States*. [3-3-0]

Same as Economics 340, 341. Prerequisite: History 201, 202; junior standing; or consent of instructor. Taught both semesters, 1975-76.

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.

395. *Topics in American History*. [3-3-0]

Prerequisite: History 201, 202; 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.

430, 431. *Diplomatic History of the United States*. [3-3-0] [3-3-0]

Prerequisite: History 201, 202; junior standing; or consent of instructor. Taught both semesters, 1975-76.

An examination of American relations with the rest of the world since independence. Second semester begins with the early 20th century and continues down to the present.

434. *Urban History of the United States*. [3-3-0]

Prerequisite: History 201, 202; junior standing; or consent of instructor. Taught in 1975-76.

A study of the political, social, and intellectual impact of the city upon American history from the seventeenth to the twentieth century.

436, 437. *American Social-Intellectual History*. [3-3-0]



[3-3-0]

Prerequisite: History 201, junior standing, or consent of the instructor. Taught in 1976-77.

The course will cover the transition from the agricultural, deferential, aristocratic, colonial American society to the industrial, urban, democratic, modern American society through an historical development of the American social structure through the study of changes in social attitudes and analysis of those societal changes. The second semester begins with developments on the eve of the Civil War.

441, 442. *American Maritime and Naval History*. [3-3-0]

Prerequisite: History 201, 202; junior standing; or consent of instructor. Taught in 1976-77.

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

460, 461. *History of Asia* [3-3-0] [3-3-0]

Prerequisite: History 101, 102, junior standing, or consent of instructor. Taught in fall and spring semesters.

First semester focuses on the role of Chinese civilization in Asia. Second semester begins with the opening of Asia to Western influences in the nineteenth century and concludes with the modernization of Asia and the birth of Asian Communism.

Latin American History

330, 331. *History of Latin America* [3-3-0] [3-3-0]

Prerequisite: Sophomore standing or consent of the instructor. Taught in fall and spring semesters.

The first semester considers the relation of social and cultural achievements of Latin America within the framework of Western Civilization as well as pre-Columbian cultures and colonization period. The second semester examines independence movements and Republican institutions of post-revolutionary period to the present.

Contemporary History

341. *The Contemporary World*. [3-3-0]

Prerequisite: History 101, 102; or History 201, 202; or consent of instructor. Taught spring semester, 1975-76.

An historical analysis of world developments since World War II, with particular emphasis on the development of ideological and racial tensions. The goal of the course is to place the major concerns of the present in their proper historical perspective.

Seminar

490. *Senior Seminar*. [3-3-0]

Prerequisite: six credits 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 in the Division of Arts and Letters -- 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.

300. *The Bible as Literature.* [3-3-0]

Same as English 300. Prerequisite: At least one course in the English 201-208 sequence. Taught fall semester, 1976-77.

A literary study of the Old and the New Testament with emphasis upon artistic and humanistic merits of these collections.

395. *Topics.* [3-3-0]

Prerequisite: Completion of English 101-102 or the equivalent and either the Humanities distribution requirement or six hours of history. Taught at the discretion of the Arts and Letters Division.

A team-taught course on topics relating to two or more disciplines within the Division of Arts and Letters.

Modern Foreign Languages and Literatures

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, German, and Spanish.

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.

Students who come to the College with an academic or life experience equivalent to two years of high school study in French, German, or Spanish must take the placement examination. These students may not take a 101 course for credit, unless they decide to begin a language other than that for which the test is taken.

The results of the placement examination will determine where the student with previous language experience will begin his or her course work. A student will be placed within the sequence, beyond the 101 course. 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 ten credits for courses in the basic sequence they did not have to take as a result of advanced placement. Some students may score beyond the 202 course on the placement examination and thereby satisfy the total requirement and receive ten credits. Consult any member of the Department in Wingfield Hall for further information.

Students with French, German, or Spanish as their native language may not take the 101 or the 102 course in that language for credit. These students must however take the placement examination; and the results will be evaluated for appropriate placement by the Department.

The Department of Modern Foreign Languages and Literatures offers three courses in English designated as M.L. 205, M.L. 206 and M.L. 395. The first two M.L. 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. M.L. 395 is a topics course which may be taken as an elective.

Modern Language

ML205. *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 a major literary theme.

ML206. *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.

ML395. *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 Educational Department, the Department of Modern Foreign Languages and Literatures offers a program leading to certification in the teaching of French in intermediate and secondary schools. Thirty hours of credit, including 100-level courses, are required if French is the primary foreign language; twenty-four hours are required if French is the second foreign language in which certification is sought. A student preparing for certification in French is required to include French 310. During practice teaching, the student will take the Materials and Methods course, 403L, which does not apply to the major.

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	8
Social Science		6
Lab Science		8
Second Language or Minor		8
Physical Education		2
		—
		30

Course Hours

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. Taught fall semester.

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 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 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. Taught fall semester, 1976-77.

Review of the main principles of syntax. Composition and translation conducted chiefly in French.

302. *Conversation.* [3-3-0]

Prerequisite: French 202 or the equivalent. Taught spring semester, 1976-77.

The aim of this course is to develop greater fluency in speaking and writing idiomatic French. Phonetics; intensive oral-aural training. Conducted chiefly in French.

303. *Advanced Grammar and Composition.* [3-3-0]

Prerequisite: French 202 or the equivalent. Taught fall semester, 1975-76.

Study of syntax and style through composition and translation. Conducted chiefly in French.

304. *Listening Comprehension and Diction.* [3-3-0]

Prerequisite: French 202 or consent of the instructor. Taught spring semester, 1975-76.

The course is designed to improve the student's oral comprehension of language spoken at different individual rates. Live radio interviews of native speakers on topics of current interest; speeches and films given in everyday language will be used. Correct and accurate pronunciation will be emphasized and developed through a laboratory program.

310. *Practical French Phonetics.* [3-3-0]

Prerequisite: French 202 or the equivalent. Taught fall semester, 1975-76.

An intensive study of pronunciation, rhythm, intonation, and the international phonetic alphabet designed to increase oral proficiency.

311. *French Civilization.* [3-3-0]

Prerequisite: French 201 or the equivalent. Taught spring semester, 1975-76.

A study of French society and culture from their origins to W.W.I. encompassing geography, history, art, and social customs.

361. *Seventeenth-Century French Literature.* [3-3-0]

Prerequisite: French 251-252 or consent of instructor. Taught in fall semester, 1975-76.

A survey of the major authors and genres of the seventeenth century, including the dramatists, the moralists, and the baroque poets. Emphasis on the theater 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. Taught fall semester, 1976-77.

Reading and analysis of the major works of the French Enlightenment. Developments in the novel and the theater of the period.

381. *Nineteenth-Century French Literature.* [3-3-0]

Prerequisite: French 251-252 or consent of the instructor. Taught spring semester, 1975-76.

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 the instructor. Taught spring semester, 1976-77.

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.

491. *Twentieth-Century French Novel.* [3-3-0]

Prerequisite: French 251-252 or consent of instructor. Taught fall semester, 1976-77.

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. Taught spring semester, 1976-77.

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 Beckett.

495. *Advanced Topics in French.* [3-3-0]

Prerequisite: Senior standing or consent of the 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.*

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 offered.

German

In cooperation with the Modern Language Department of the College of William and Mary, the College offers a major in German. A major in German consists of twenty-seven semester hours in the field above the 202 level, including the satisfactory completion of German 251, 252, 301 or 303, 311, nine hours of major electives, and at least six hours of 400-level courses in the Modern Language Department of the College of William and Mary. Major elective courses may be taken at the College of William and Mary with the permission of the Chairman of the Department of Modern Foreign Languages and Literatures. The study of a second language is strongly recommended. Minor programs in the following fields are recommended: a second language, business administration, classical studies, education, English, fine arts, geography, history, music, philosophy, political science, and theatre arts.

A minor program in German consists of eighteen hours of course work above the 100-level. No specific courses are required, and no student will be required to take courses at the College of William and Mary to complete the minor. 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 theatre arts.

In conjunction with the Education Department the Department of Modern Foreign Languages and Literatures offers a program leading to certification in the teaching of German in intermediate and secondary schools. Thirty hours of credit, including 100-level courses, are required if German is the primary foreign language; twenty-four hours are required if German is the second foreign language in which certification is sought.

Study abroad programs for academic credit approved by the State Council on Study Abroad are encouraged for all German majors.

Unless otherwise noted, all German courses will be conducted chiefly in German.

Sample Program for German Majors

Course	Hours
Freshman Year	
English 101-102	6
German 101-102	8
Social Science	6
Humanities	6
Math	6
	32
Sophomore Year	
German 201-202	6
Social Science	6
Laboratory Science	8
Second Language or minor field	8
Physical Education	2
	30
Junior Year	
German 251-252	6
German 301 or 303, 311	6
German elective	3
Second Language or minor field	8
Electives or Education	9
	30
Senior Year	
German Electives	12
Second Language or minor field	6
Electives or Education	12
	30

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.* [4-3-1]

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]

Prerequisite: German 202 or the equivalent. 251 taught fall semester, 1975-76, 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. Taught fall semester, 1976-77.

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.* [3-2-1]

Prerequisite: German 201 or the equivalent. Taught spring semester.

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. Taught fall semester, 1975-76.

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. Taught fall semester, 1976-77. 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 the instructor. Taught fall semester 1976-77.

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 German minor or major. No student may enroll more than twice for credit.

490. *Seminar in German Literature.* [3-3-0]

Prerequisite: Senior standing or consent of the instructor. Taught spring semester 1976-77.

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.

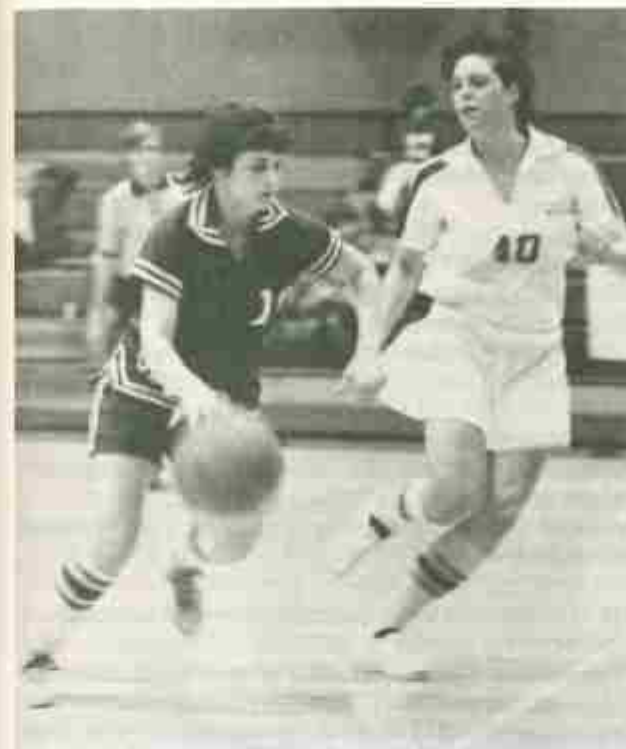
Projects for upperclassmen in German language, literature, and civilization.

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 adviser, 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. The study of a second language is strongly recommended. 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 must include Spanish 251, 252, or Spanish 351, 352. 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 program leading to certification for teaching



Spanish in the intermediate and secondary schools. Thirty hours of credit, including 100-level courses, are required if Spanish is the primary foreign language; twenty-four hours are required if Spanish is the second foreign language in which certification is sought. A student preparing to teach Spanish must take Spanish 302 or 304. During practice teaching, the student will take the Materials and Methods course, 403L, which does not apply to the major.

Sample Program for Spanish Majors

Course	Hours
<i>Freshman Year</i>	
English 101-102	6
Spanish 101-102	8
Social Science	6
Humanities	6
Math	6
	32
<i>Sophomore Year</i>	
Spanish 201-202	6
Social Science	6
Lab Science	8
Second Language or Minor	8
Physical Education	2
	30

Junior Year

Spanish 251-252	6
Spanish 301-303	8
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 both semesters.

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 both semesters.

Further development of reading, writing, speaking, and listening comprehension skills. Conducted chiefly in Spanish.

251, 252. *Introduction to Spanish Literature.* [3-3-0]

Prerequisite: Spanish 202 or consent of instructor. Taught in 1976-77.

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, 1975-76.

Review of main principles of syntax. Composition and translation. Conducted chiefly in Spanish.

302. *Conversation.* [3-3-0]

Prerequisite: Spanish 202 or the equivalent. Taught in 1975-76.

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 1976-77.

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 the instructor. Taught in 1976-77.

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, 1976-77.

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. Taught fall semester, 1975-76.

A study of contemporary society and culture of the Spanish-American countries encompassing 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. Taught in 1975-76.

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. Taught fall semester, 1975-76.

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. Taught spring semester, 1975-76.

Major emphasis on the picaresque novel and the develop-

ment of poetic expression from Garcilaso to Gongora.

391. *The Generation of '98.* [3-3-0]

Prerequisite: Spanish 251, 252, or consent of instructor. Taught fall semester, 1975-76.

Representative figures include Unamuno, Azorín and Baroja.

392. *Twentieth-Century Spanish Literature.* [3-3-0]

Prerequisite: Spanish 251, 252, or consent of instructor. Taught spring semester, 1975-76.

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, 1976-77.

A critical and historical study of the poetry and prose of the Modernistas.

394. *Twentieth-Century Spanish-American Literature.*

[3-3-0]

Prerequisite: Spanish 251, 252, or consent of instructor. Taught spring semester, 1976-77.

Critical and historical study of representative works of the twentieth century.

395. *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, 1976-77.

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.*

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 hours credit may vary each time the course is offered.

Philosophy

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 or her 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.

Philosophy supports other programs at the College wherever critical thinking and a sharpened sense of values are important. For example, the general area of ethics, aesthetics, and social, political, and religious values may be of special interest to students concentrating in the humanities and the social sciences. 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, 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, while still others enter law school, for which their training in logical techniques and value-awareness provides them an excellent background.

A major in philosophy is offered in conjunction with the Philosophy Department of the College of William and Mary. Candidates for this degree must take a minimum of thirty hours in philosophy, of which at least twelve hours of upper-level courses must be taught by William and Mary faculty, with the approval of both department chairmen and the instructor concerned. No set sequence of courses is prescribed. The student is advised to become acquainted with the history of thought, various alternative methods of thinking, modern philosophers, and contemporary philosophical issues. Philosophy majors are encouraged to take one or two years of a foreign language. The requirement for a minor in philosophy is fifteen hours of courses above the 100-level. Students should work out a specific program with their adviser.

Sample Program for Philosophy Majors

Course	Hours
Freshman Year	
English 101-102	6
Philosophy 101-102	6
Laboratory Science	8
Social Science	6
Elective	3
Physical Education	2
	31
Sophomore Year	
Philosophy 201-202	6
Foreign Language	6
Philosophy 307-308	6
Humanities elective	6
Science elective	6
	30
Junior Year	
Philosophy 304-305	6
Foreign Language	6
Philosophy 306, 395	6
Electives	12
	30
Senior Year	
Philosophy 310, 440	6
Philosophy 421, 495	6
Philosophy 490	3
Electives	15
	30

101. *Elementary Logic.* [3-3-0]

Taught both semesters.

A course designed to improve the student's ability to reason by using the traditional predicate logic of the syllogism, elementary techniques of propositional logic using symbols, techniques of identifying fallacies and defining words with precision as well as introducing some methods of inductive reasoning.

110. *Introduction to 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. *The History of Philosophy.* [3-3-0]

Taught fall semester.

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. *The History of Philosophy.* [3-3-0]

Prerequisite: Philosophy 201 or consent of instructor. Taught spring semester.

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.

301. *Intermediate Logic.* [3-3-0]

Prerequisite: Philosophy 101-102.

A study of the principles of valid reasoning with special emphasis on modern symbolic techniques.

302. *Advanced Logic.* [3-3-0]

Prerequisite: Philosophy 301.

A continuation of Philosophy 301.

305. *Theory of Knowledge.* [3-3-0]

Taught spring semester.

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.

304. *Ethics.* [3-3-0]

Taught fall semester.

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.

306. *Aesthetics.* [3-3-0]

Prerequisite: Philosophy 101, 102, 201, or 202. Taught in 1975-76.

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 exper-

ience, aesthetic qualities, and the aesthetic object; the analysis of aesthetic value; art and morality.

307. *Contemporary Philosophy.* [3-3-0]

Taught fall semester, 1975-76.

An examination of philosophical thought during the twentieth century with selected readings from the works of existentialists, analytic philosophers, and others. Jean-Paul Sartre and Bertrand Russell will be among those studied.

308. *Philosophy of Religion.* [3-3-0]

Taught spring semester.

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 must be meaningless, symbolic, or analogical; the relation of reason to revelation, faith, and miracles.

310. *Social and Political Philosophy.* [3-3-0]

Prerequisite: Philosophy 101, 102, 201, or 202. Taught in 1975-76.

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.

395. *Elementary Topics in Philosophy.* [3-3-0]

Prerequisite: Philosophy 101, 102, 201, or 202 or consent of instructor. Taught in 1975-76.

The following topics or similar ones will be offered on the basis of student interest: individual philosophers such as Plato or Hume; eras such as British Empiricism; elementary logical theory; Philosophy of Science; Philosophy of Law; science, technology, medicine, and values.

421. *Eastern Philosophy.* [3-3-0]

Taught spring semester, 1976-77.

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.

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.

490. *Senior Seminar.* [3-3-0]

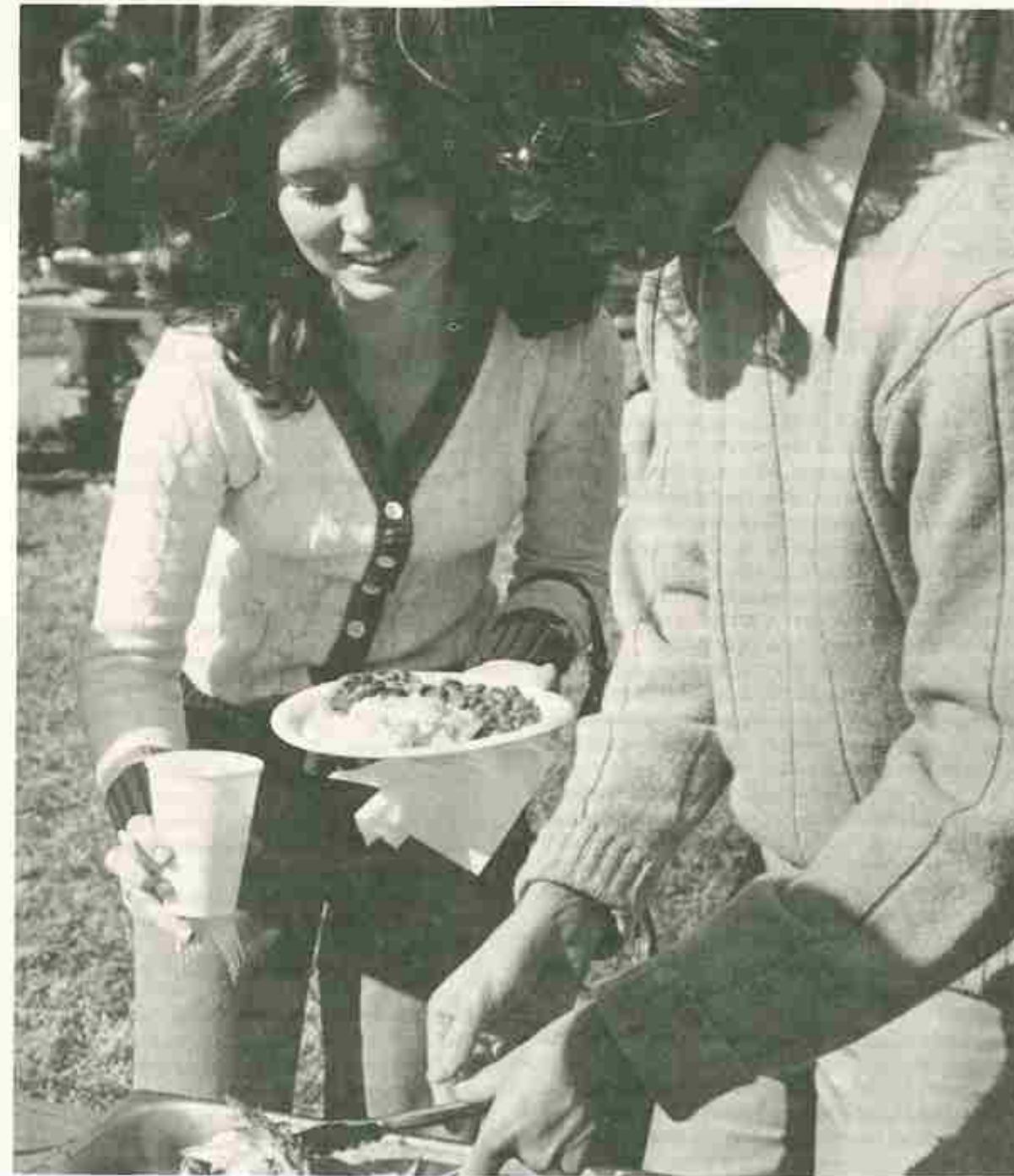
Prerequisite: Open only to philosophy majors with Senior Standing. Taught spring semester, 1976-77.

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. Taught in 1976-77.

The following topics or similar ones will be offered on the basis of student interest: individual philosophers such as Kant or Wittgenstein; eras such as Presocratic philosophy; Philosophy of Language; Philosophy of Mind; action theory; decision theory; of justice; modal logic.



Social and Behavioral Sciences

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. Will be analyzed cross-culturally.

credit hours in Political Science courses, including Political Science 100, are required.

The multi-disciplinary Bachelor of Science in Governmental Administration degree, administered by the Political Science Department, includes four professional specialties, one of which must be completed by the student who seeks the B.S.G.A. degree: Law Enforcement, Corrections, Urban Planning and Urban Management. For further information on this degree, see *Requirements for Degrees*.

The Corrections and Law Enforcement professional specialties of the B.S. Degree in Governmental Administration require that four courses (in Corrections and Law Enforcement or their equivalent) be taken at one of the Virginia community colleges or elsewhere.

B.A. in Political Science

Course	Hours
Freshman Year	
English 101-102	6
Math 110-120 or Philosophy	6
Natural Science	8
Political Science 100	3
Foreign Language	8
	31
Sophomore Year	
Humanities	6
Foreign Language	6
Physical Education	2
Sociology 200	3
Economics	6
Electives	3
Political Science Courses	6
	32
Junior Year	
Political Science Courses	12
Sociology (including Social Statistics)	6
History 334 (Urban)	3
General Electives	9
	30
Senior Year	
Political Science 490, 491, 495, or 499	3
Sociology 422, 431	6
Political Science Courses	6
General Electives	15
	30

B.A. in Political Science with Secondary Teaching Certificate

Course	Hours
Freshman Year	
English 101-102	6
Math 110-120	6
History 201	3
Natural Science	8
Political Science 100	3
Economics	6
	32
Sophomore Year	
Humanities	6
Sociology 200	3
Physical Education	2
History	3
Education 341 (Cultural Foundations) and Psychology 201	6
Political Science Courses	12
	32
Junior Year	
Speech 201	3
Geography	6
Psychology 307, 312, Education 303	9
Political Science Courses	12
	30
Senior Year	
Education	12
Physical Education 321	3
Political Science 490, 491, 495, or 499	3
General Electives	12
	30
100. American Political Process. [3-3-0]	
Taught both semesters.	
An introduction to the study of the processes and problems of policy-making in American democracy. Consideration is given to policy studies, institutional processes, participatory and representative instrumentalities, and explanatory and evaluative theory.	
201. Comparative Politics. [3-3-0]	
Taught both semesters.	
A comparative study of selected Western and non-Western countries in terms of their structural and functional characteristics, the interaction of political systems in their environment, and their responses to the pressures of change.	
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, including problems of distribution of power within the federal system.

302. Public Finance. [3-3-0]

Same as Economics 302. Prerequisite: Economics 201-202. Taught spring semester, 1975-76.

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.

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, the interrelationship to one another and the major problems of the contemporary period.

331. Introduction to Urban Planning. [3-3-0]

Taught both semesters.

Examines the general nature of urban planning and its development in the United States, including a survey of the problems with which planning seeks to cope.

334. Theory of Urban Planning. [3-3-0]

Taught spring semester, 1975-76.

An examination of theories of the planning process and the policy implications of alternate theories. Considers the relationship between technical and political approaches to planning and the relationship between planning theory and practice.

335. Planning and Design I. [3-3-0]

Taught both semesters.

An accelerated introduction to major topics and skills of site planning and plan presentation. Includes isometric and perspective drawing, principles and practice in visual design, introduction to grading and drainage, site analysis, and functional analysis.

336. Planning and Design II. [3-3-0]

Prerequisite: Political Science 335 or consent of instructor. Taught spring semester.

Exercises in large scale site planning for such projects as residential developments, shopping centers, industrial parks, and major community facilities.

337. Techniques of Urban Planning. [3-3-0]

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

The objectives of the Political Science Department 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.

Through the Bachelor of Science program in Governmental Administration, the Department offers a multi-disciplinary 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 urban management, urban planning, law enforcement, and corrections; equips students with analytical and quantitative skills necessary for careers in the observation and measurement of the urban 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 the student is required to take a minimum of thirty credit hours in Political Science, including the following courses: Political Science 100 and either Political Science 490, 491, 495, or 499. The remaining courses should be selected in consultation with the student's adviser.

For a minor in Political Science, a minimum of eighteen

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 102 or consent of instructor. Taught in 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 the civil rights and anti-war movements and instances of civil disobedience.

346. Politics of Criminal Justice Administration. [3-3-0]
Prerequisite: Political Science 102 or consent of instructor. Taught in 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. Modern Political Behavior. [3-3-0]
Taught fall semester.

Fundamentals of statistical approaches used in the study of political behavior with an introduction to the construction, delivery, and analysis of surveys.

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 investigation of the processes of policy-making and an interpretation of factors which affect the formation and execution of American public policies. Consideration is given to fiscal, urban, educational, health and welfare policies.

363. Law and Public Policy. [3-3-0]
Taught spring semester.

A treatment of civil, political and individual rights as they relate to such policy areas as income maintenance, housing, equal employment opportunity, consumer protection, and environmental protection.

365. Constitutional Interpretation. [3-3-0]
Taught fall semester.

An examination of Supreme Court cases and other materials in considering the development of public law as it relates to the distribution of power in the national government, between the national government and the states, and between government and the individual.

371. Public Administration. [3-3-0]
Taught fall semester.

Survey of administration in the public sector; administrative behavior; politics and administration; personnel and budgetary processes; administrative responsibility; contemporary issues.

381. Public Personnel Administration. [3-3-0]
Taught fall semester.

Principles of personnel administration and their development and functions in the public service: Compensation, staffing, development, and separation.

391. Governmental Budgeting. [3-3-0]
Prerequisite: Political Science 371 or consent of instructor. Taught spring semester.

Basic concepts, principles, and practices in governmental budgeting; the interrelation of planning, programming, and budgeting; contemporary issues in budgeting in the public sector.

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]
Prerequisite: Political Science 371 or consent of instructor. Taught spring semester.

An examination of perspectives, problems, and processes of the executive function of managing agencies and organizations in the public sector; structural design; human factors in organizations; elements of decision-making; leadership and communication; the role of the modern city manager; the main lines of organizational theory.

406. Trial Court Administration. [3-3-0]
Prerequisite: Political Science 100 or consent of instructor. Taught spring semester, 1975-76.

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 assis-

tance, jury administrative services and statistical management.

440. Planning Administration. [3-3-0]
Prerequisite: Political Science 331 or consent of instructor. Taught fall semester.

Investigation of the legal tools of planning (zoning, subdivision regulations, etc.) and theories of coordination and levels of planning. Examination of types of planning administration and levels of administration.

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 and 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. 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]
Taught both semesters. Individual study on an approved project with discussion and critique on methods of research. A formal paper is required.



Psychology

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.S. and B.A. degrees, all psychology majors will be asked to complete thirty-six credits in psychology. Three of these credits must be Psychology 201, *Principles of Psychology*. Seventeen hours must include Psychology 301-302, *Experimental Psychology*; Psychology 321, *Statistical Applications in Social Science Research*; and Psychology 490, *Senior Seminar* (six hours, two enrollments). Of the remaining sixteen credits, twelve hours must be in junior- and senior-level courses and at least six of these in a senior-level course.

Special requirements for the B.S. degree include one additional semester course in a laboratory science in the student's field of interest beyond the requirements already listed for the B.S. degree in the section on Distribution Requirements. Psychology 404, *Physiological Psychology*, will fulfill this special requirement.

A minor in psychology requires eighteen hours including Psychology 201, one senior seminar taken in the senior year, and one 400-level course. Psychology 231, *Statistics*, is recommended.

With the increased emphasis on training para-professionals in the field of mental health, the Psychology Department in the fall of 1975 will institute a concentration for students interested in becoming psychological technicians. Core courses in the concentration, in addition to the requirements for the major, will consist of Psychology 304, *Social Psychology*; Psychology 306, *Tests and Measurements*; Psychology 307, *Developmental Psychology*; Psychology 340, *Group Processes*; Psychology 316, *Principles of Interviewing*; and a field work placement. Recommended courses in sociology for the concentration should be chosen from the following: Sociology 220, *Social Problems*; Sociology 225, *Racial and Cultural Minorities*; Sociology 322, *Sociology of Crime*; Sociology 324, *Sociology of Juvenile Delinquency*. It is recommended that Psychology 303, *Industrial and Organizational Psychology*, be included among the elective courses.

An interdisciplinary effort by the Education and Psychology departments permits an additional group of courses to be offered in the fall of 1975 in the field of learning disabilities. The concentration will permit teachers to be endorsed to teach learning-disabled children. The student must consult both departments in order to be sure of

meeting certification requirements. Courses offered in psychology are Psychology 408, *Psychology of the Exceptional Child-The Learning Disabled and Emotionally Disturbed* (three hours with one hour optional lab); Psychology 415, *Psycho-educational Diagnosis for Teachers*; and Psychology 417, *Behavioral Management of the Exceptional Child*.

For students planning to attend graduate school, the department considers Psychology 305, *Learning*, and Psychology 401, *History*, as necessary courses in the students' preparation and recommends at least two of the following: Psychology 404, *Physiological*; Psychology 405, *Motivation*; and Psychology 406, *Sensation and Perception*. In the fall of 1975, one of the Senior Seminars will be in advanced general psychology and is designed to integrate the learning over the four years. This should prove invaluable for students planning to take the Graduate Record Examination.

Psychology majors who elect to earn certification in Social Welfare should refer to the description of the program by the Sociology Department. The student must coordinate his or her program with the Social Welfare adviser in that department as well as with the major adviser.

A major who wishes to develop a specialty in Criminal Justice (Corrections) should coordinate his or her program with the Criminal Justice program director in the Political Science Department as well as with the major adviser. Refer to the description of program in the Political Science Department listings.

Sample Program for Psychology Majors [B.A.]

Course	Hours
<i>Freshman Year</i>	
English 101-102	6
Foreign Language	8
Laboratory Science (Biology or Chemistry recommended)	8
Math	4-6
Physical Education	2
	28-30
<i>Sophomore Year</i>	
Foreign Language	6
Humanities	6
Psychology 201-202	6
Psychology 231	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
<i>Freshman Year</i>	
English 101-102	6
Foreign Language	8
Laboratory Science (Biology or Chemistry recommended)	4-6
Physical Education	2
	28-30

Sophomore Year

Foreign Language	6
Humanities	6
Psychology 201-202	6
Psychology 231	3
Social Science (Sociology recommended)	3
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 409, 410	4
Psychology Electives	6
Electives	13
Fifth Semester of Lab Science	4
Psychology 401	3
	30

103. Psychology of Adjustment. [3-3-0]

Taught both semesters.

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.

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

Taught both semesters.

Basic principles of behavior according to the categories of general psychology: motivation, learning, maturation, emotion, thinking, perception, intelligence, and the organization of personality.

231. Statistical Application in Social Science Research. [3-3-0]

Prerequisite: A minimum of three hours of college mathematics and Psychology 201. Taught both semesters. 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 be announced.

301-302. Experimental Psychology. [4-3-4]

Prerequisite: Psychology 201 and 231. Taught both semesters.

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: 201. Taught both semesters.

A survey of how the psychologist functions in areas of recruitment, selection, training, placement, evaluation, management, supervision, human relations, and human engineering as well as the knowledge and methods currently available related to human behavior in organizational settings.

304. Social Psychology. [3-3-0]

Prerequisite: Psychology 201. Taught fall semester.

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. Taught fall semester.

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.

306. Introduction to Tests and Measurements. [3-3-0]
Taught spring semester.
Theory and history of the most widely used tests of achievement, of personality, and of intelligence.

306A. Introduction to Tests and Measurement- Laboratory (Optional) [1-0-3]
Prerequisite: Psychology 201. Psychology 231 recommended. Taught spring semester.

307. Developmental Psychology. [3-3-0]
Prerequisite: Psychology 201. Taught both semesters.
A study of data and theory concerning the development of the individual through the life span, including cognitive, physiological, and affective processes. Students may take only two of the following four courses for credit: 307; 308; 309; and 311.

308. Child Psychology. [3-3-0]
Prerequisite: Psychology 201. Taught both semesters.
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 four courses for credit: 307; 308; 309; and 311.

309. Psychology of Adolescence. [3-3-0]
Prerequisite: Psychology 201. Taught spring semester.
The development of the child from pre-adolescence through adulthood, presenting theories of adolescence in light of experimental data. Students may take only two of the following four courses for credit: 307; 308; 309; and 311.

311. Psychology of Early Childhood. [3-3-0]
Prerequisite: Psychology 201. Taught fall semester.
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 four courses for credit: 307; 308; 309; and 311.

312. Educational Psychology. [3-3-0]
Same as Education 201. Prerequisite: Psychology 201. Taught both semesters.
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. Taught both semesters.
A survey of the basic facts, principles, theories, techniques, and methods currently available about the behavior of people in organizations. Motivation and communications are particularly emphasized. The major course objectives involve providing opportunities to apply facts, principles and theories; to develop skills in current

techniques and their applications to reaching organizational objectives; and to develop more awareness of the effects of our behavior on others and the effects of the behavior of others on us. May only be taken as pass/fail.

314. Introduction to Personality. [3-3-0]
Prerequisite: Psychology 201. Taught fall semester.
Individual differences in personality dynamics and various interpretations of personality development.

316. Principles of Interviewing. [3-3-0]
Prerequisite: Psychology 201, 306, 304, or 340. Taught spring semester.
Principles and methods of interviewing, observing, recording, summarizing, and communicating human reactions (both verbal and non-verbal communication). Use of techniques such as role play, behavioral techniques, and environmental change to assist the individual in his or her daily experiences.

340. Group Processes. [3-3-0]
Prerequisite: Psychology 201; Psychology 304 is recommended. Taught fall semester.
Personal and interpersonal learnings constitute the central objectives of this experience-based course. A modified human relations laboratory approach will be used. This method depends heavily upon individual involvement in the learning process and shared responsibility for exploring feelings, ideas, and concerns.

395. Elementary Topics. [3-3-0]
Prerequisite: Psychology 201. Taught both semesters.
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 toward a degree in psychology.

410. History of Psychology. [3-3-0]
Prerequisite: Psychology 201 and completion of required 300-level courses. Taught spring semester.
From Aristotle to the present with special emphasis on the nineteenth and twentieth centuries.

403. Abnormal Psychology. [3-3-0]
Prerequisite: Psychology 201 and Psychology 307 and completion of all required 300-level courses. Taught spring semester.
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 re-

quired 300-level courses. Taught fall semester.
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. Taught spring semester.
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. Taught fall semester.
Sensory and perceptual processes presented in the framework of both theoretical and experimental issues.

407, 408. Psychology of the Exceptional Child. [3-3-0]
Prerequisite: Psychology 201 and 307 (or its equivalent).
407 taught fall semester and 408 taught spring semester.
The psychological development of children with physical, emotional, educational, social, and intellectual deviations as well as intellectual and personality development, evaluation, 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 a 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.

415. Psycho-Educational Diagnosis for Teachers. [3-3-0]
Prerequisite: Psychology 201, 306, 408 and teacher certification or majors in education seeking a second endorsement.
This course is designed to help teachers to develop skills of informal diagnostic evaluation which can be used in the classroom to individualize instruction and to design classroom programs for the individual student.

417. Behavioral Management of the Exceptional Child. [3-3-0]
Prerequisite: Psychology 201 and 408. Taught in 1975-76.
A comprehensive presentation of innovative behavioral treatment techniques, instructive results of systematic

research, and usable intervention strategies for individuals who work or plan to work with exceptional children.

490. Senior Seminar. [3-3-0]
Prerequisite: Psychology 201 and completion of all required 300-level courses. Taught both semesters.
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.

495. Advanced Topics. [3-3-0]
Taught both semesters.
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: Senior Psychology majors. Taught both semesters.
Independent study which may consist of bibliographic or experimental research.

Sociology

The Department of Sociology provides an educational program which integrates a theoretical orientation and its application with major social issues and problems.

Through its curriculum and commitment to community service, the Department stimulates and encourages students to develop a broad background in the social and behavioral sciences and in liberal education. The Department of Sociology seeks: to teach students to examine and analyze the society and social institutions in which they live from a sociological perspective; to prepare students for effective and intelligent participation in community affairs as involved citizens and/or professionals; and to provide an educational program which is flexible in meeting various professional options.

The sociology major may pursue one of five concentrations, one in general sociology and four in applied sociology. A major in sociology (all five concentrations) requires a minimum of eleven courses (thirty-three hours) in sociology, eight of which must be at the 300- and 400-level. Included in these courses must be Sociology 200, *Introduction to Sociology* and Sociology 391-392, *Methods and Tools of Social Research*. Additional courses are required for each concentration and are identified below. Upon completion of the requirements for a concentration and are

identified below. Upon completion of the requirements for a concentration, the proper notation will be made on the student's transcript.

General Sociology

This concentration is planned for students interested in sociology as part of liberal education or as preparation for a career or graduate study in sociology. The student must take Sociology 490, *Senior Seminar*, or Sociology 499, *Independent Research or Research Internship*. Recommended for those intending to go to graduate school are Sociology 421, *Social Theory*; Sociology 422, *Sociology of Inequality*; Philosophy 201-202, *History of Philosophy*; Computer Science 220, *Computer Structure and Programming*; and a foreign language.

Applied Concentrations in Sociology

Social work concentration

Designed for those interested in social work as a possible career option, the program helps students to understand the human condition and how change can be made in it. It prepares students for work in a variety of social settings as well as for graduate school and for active roles in community efforts to change. The student must take Sociology 304, *Socialization and Society*; Sociology 367, *The Social Welfare Institution*; Sociology 399-400, *Social Work Practice*; Sociology 401-402, *Field Placement*; Political Science 363, *Law and Public Policy*; Psychology 307, *Developmental Psychology*; and three courses from the list of designated electives listed below. The professional social work courses, Sociology 399-400 and Sociology 401-402, cannot be counted toward the thirty-three Sociology hours presented for graduation.

Students seeking the social work concentration with a major in disciplines other than sociology must take Sociology 200, 367, 399-400, 401-402, Political Science 363, Psychology 307, and three courses from the list of electives listed below. Recommended: Sociology 368, *Community Organization* and Sociology 490, *Senior Seminar in Social Work*.

Students must choose as electives one course from each of these three categories: (a) Sociology 220, *Social Problems*; Sociology 225, *Minorities in Society*; Sociology 319, *Deviant Behavior*; and Sociology 321, *Sociology of Crime*; (b) Psychology 304, *Social Psychology*; Psychology 313, *Human Relations in Organizations*; and Psychology 403, *Abnormal Psychology*; and (c) Economics 201-202, *Principles of Economics*; Political Science 221, *State and Local Government*; and Political Science 371, *Public Administration*.

Corrections Concentration

This concentration is for students interested in the correctional field as counselors and probation and parole officers as well as other rehabilitation and/or community-

based programs. Students interested in administration in the correctional field should refer to the Corrections Specialty within the B.S.G.A. degree. The student must take Sociology 321, *Sociology of Crime*; Sociology 399, *Social Work Practice I*; Sociology 401, *Field Placement* (in correctional agency); Sociology 411, *Sociology of Corrections*; one of the following three courses: Sociology 210, *Social Organization*; Sociology 225, *Minorities in Society*; Sociology 304, *Socialization and Society*; and two of the following four courses: Sociology 319, *Deviant Behavior*; Sociology 324, *Sociology of Juvenile Delinquency*; Sociology 368, *Community Organization*; and Sociology 422, *Sociology of Inequality*. Recommended are Political Science 346, *Politics of Criminal Justice Administration*; Psychology 313, *Human Relations in Organizations*; Sociology 367, *The Social Welfare Institution*; and Psychology 316, *Principles of Interviewing*.

Research and Program Evaluation Concentration

For those interested in a career as a research assistant in community studies and/or program evaluation in areas of health, mental health, social welfare, corrections and social planning, this concentration provides a solid background. The student must take Sociology 361, *Population Analysis*; Sociology 461, *Social Indicators and Evaluation Research*; Sociology 499, *Independent Research or Research Internship*; and two of the following three courses: Sociology 331, *Urban Sociology*; Sociology 367, *The Social Welfare Institution*; and Sociology 368, *Community Organization*. Recommended are: Computer Science 220, *Computer Structure and Programming*; Political Science 391, *Governmental Budgeting*; Economics 201-202, *Principles of Economics*; and additional courses in quantitative analysis.

Manpower Administration Concentration

This concentration is designed for students interested in a career in manpower administration and/or employment service as counseling, job development, or training. The student must take Sociology 367, *The Social Welfare Institution*; Sociology 368, *Community Organization*; Sociology 399, *Social Work Practice I*; Political Science 363, *Law and Public Policy*; Political Science 491, *Practicum in Governmental Administration* (in a manpower agency); and two courses in both Economics and Psychology. Recommended are: Economics 201-202, *Principles of Economics*; Economics 351, *Urban Development Economics*; Economics 451, *The Economics of Labor and Collective Bargaining*; Political Science 371, *Public Administration*; Psychology 303, *Industrial Psychology*; Psychology 306, *Introduction to Tests and Measurements*; Sociology 326, *Black-White Relations*; Sociology 332, *Industrial Sociology*; and Sociology 422, *Sociology of Inequality*.

A minimum of six courses (eighteen hours) in sociology, with four courses at the 300- and 400-level, including Sociology 490, *Senior Seminar*, is required for a minor. Some

proficiency with research methods or statistics is required. Students seeking a minor must confer with the Department chairman.

Sample Program for Sociology Majors (All Concentrations) [same program for first two years]

Course	Hours
Freshman Year	
English 101-102	6
Natural Science (Biology recommended)	8
Sociology 200 plus another 200-level course	6
Physical Education	2
Electives	9
	31
Sophomore Year	
Humanities	6
Math 110, 220	6
Sociology electives	6
Psychology 201-202	6
Social Science (Economics 201-202 recommended)	6
Electives	7
	31
General Sociology	
Junior Year	
Sociology 391-392	6
Sociology upper level courses	12
Electives	12
	30
Senior Year	
Sociology 490 or 499	3
Sociology electives	9
Electives	18
	30
The Social Work Concentration	
Junior Year	
Sociology 367	3
Political Science 363	3
Sociology 391-392	6
Psychology 307	3
Sociology 304	3
Sociology 399	3
Electives (Sociology 368 recommended)	9
	30

Senior Year	
Sociology 400	3
Sociology 401-402	6
Sociology 490 (Recommended)	3
Sociology electives	6
Electives	12
	30

Other Concentrations

For sample programs for other concentrations, see requirements for specific concentration.

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, homosexuals, 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. Analysis of American courtship, marriage, and family relationships.

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.

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.

319. Deviant Behavior. [3-3-0]

Prerequisite: Sociology 200. Taught fall semester. An analysis of deviant behavior, including such areas as mental illness, suicide, alcohol and drug addiction, and sexual deviancy.

321. Sociology of Crime. [3-3-0]

Prerequisite: Sociology 200. Taught fall semester. A sociological examination of the nature and extent of crime with a critical examination and interpretation of official records of crime. Special emphasis on sociological theories of crime and criminal behavior.

324. Sociology of Juvenile Delinquency. [3-3-0]

Prerequisite: Sociology 200. Taught in spring semester, 1975-76.

A sociological examination of the nature and extent of juvenile delinquency with special emphasis on sociological theories of juvenile gangs and delinquent behavior. Some emphasis will be placed on juvenile courts and agencies. Includes field trips to appropriate agencies and institutions.

326. Black-White Relations. [3-3-0]

Prerequisite: Sociology 200. Taught in spring semester, 1976-77.

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. Taught in spring semester, 1975-76.

A sociological study of industrialization with emphasis on industrial bureaucracy, major industrial work roles, the work group, and union-management relations.

361. Population Analysis. [3-3-0]

Taught fall semester, 1975-76.

Analysis of population growth, distribution, rates of birth, death, and migration; the bio-social and sociocultural composition of the population. Sources of data, techniques and methods of analysis.

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 of industrialization, urbanization, and to the other institutions of the society.

368. Community Organization. [3-3-0]

Prerequisite: Sociology 200; Sociology 367 is recommended. Taught in 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.

391-392. Methods and Tools of Social Research.

[3-2-1][3-2-1]

Prerequisite: Sociology 200. Taught both semesters. Sociology 391: Examination of the methodological problems of social research. Selection and definition of problems of investigation, research designs, data gathering techniques, and sampling.

Sociology 392: Data-analysis techniques, including statistical analysis, measurement, scaling, multivariate analysis, and quantitative measures of association.

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.

Sociology 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.

Sociology 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. [3-3-0][3-3-0]

Prerequisite: Sociology 200, Sociology 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.

410. Sociology of Mental Illness. [3-3-0]

Prerequisite: Sociology 200, junior or senior status, six hours in sociology, and six hours in psychology. Taught in spring semester, 1976-77.

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. Taught in spring semester, 1976-77.

Sociological analysis of the social structure of agencies of control of crime, such as the police, the courts, prisons and other correctional institutions, and the probation and parole systems. Emphasis will be placed upon the interrelationship of the differential power of the various social classes and the differential application of criminal definitions and disposition of cases. Includes field trips to appropriate agencies and institutions.

413. Sociology of Religion. [3-3-0]

Prerequisite: Nine hours of sociology and junior or senior status. Courses in Psychology and Philosophy are recommended. Taught in fall semester, 1976-77.

A sociological analysis of religion as a social institution with emphasis on the inter-relationship between religion, society, and the individual. Topics covered include theoretical perspectives, empirical measurement of religiosity, and trends in secularization and religious pluralism.

421. Social Theory. [3-3-0]

Prerequisite or Co-Requisite: Nine hours of sociology and junior or senior status. Taught in fall semester, 1976-77.

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.

422. Sociology of Inequality. [3-3-0]

Prerequisite or Co-Requisite: Prerequisite: Nine hours in sociology, junior or senior status. Taught in spring semester, 1975-76.

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.

461. Social Indicators and Evaluation Research. [3-3-0]

Prerequisite: Sociology 391-392 and junior or senior status. Taught in fall semester, 1975-76.

The techniques and methods of "social reporting" and measuring social change and the "evaluation" of social action programs that effect change. The course focuses on the use of "social indicators" as guides to decision-making and on the conceptual, methodological, and administrative aspects of evaluation.

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.

491. 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.

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.

Natural and Quantitative Sciences

Biology and Environmental Science

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. The Department provides service courses for the Riverside Hospital School of Nursing and certain departments of the college. The Department also serves students who wish to complete their undergraduate work in specialized programs, including health and agricultural programs, at other institutions.

A minimum of forty-one 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 include 307, 204, 204a, 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 adviser. Majors must take Chemistry 121-122, 125-126, 245, 321-322, 326; Mathematics 230; and Physics 103-104 or Physics 201-202. The program should include six to ten hours of non-biology electives as well as foreign language. If the usual supporting courses required by the Department are inappropriate for the student's goals, the student and his or her adviser 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 tract. 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 department 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 adviser, and a minor adviser from the Department of Biology and Environmental Science.

Sample Programs for Biology Majors

Course

Hours

78/Biology

Freshman Year

Biology 101-102	8
Chemistry 121, 125	5
Chemistry 122, 126	5
Mathematics 130-230	7
English 101-102	6
	31

Sophomore Year

Biology 204, 204a	4
Biology Elective	4
Chemistry 321, 245	5
Chemistry 322, 326	5
Social Science	6
Physical Education	2
Humanities	3
Elective	1
	30

Junior Year

Biology 307	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 with Teaching Certification

Course	Hours
Freshman Year	
Biology 101-102	8
Chemistry 121, 125	5
Chemistry 122, 126	5
Mathematics 130-230	7
Physical Education	2
English 101-102	6
	33
Sophomore Year	
Chemistry 321, 245	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

Education 341-303	6
Psychology 312	3
Biology 204, 307	8
Biology Electives	12
	29

Senior Year

Biology Electives	12
Biology 490	1
English (200 level)	3
Education 401s	6
Education 403s, 414	6
Physical Education 321	3
	31

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 204, 204a	4
Biology 217	4
Biology 206	4
Electives	6
Physical Education	2
Social Science	6
Humanities	3
	29

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 Biology 305	4
Social Science	6
	32

101-102. Principles of Biology. [4-3-3] [4-3-3]

Taught both semesters.

Basic principles of biology as revealed by research and experimentation; the relation of these principles to the success of living organisms.

204. Genetics. [3-3-0]

Taught fall semester.

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

204a. Genetics Laboratory. [1-0-4]

Prerequisite: Concurrent or previous registration in Biology 204. Taught fall semester.

206. Plant Taxonomy. [4-3-4]

Prerequisite: Biology 101-102 or consent of instructor. Taught fall semester, 1975-76.

Phyletic relationships of flowering plants and ferns; principles of classification and identification of local flora.

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

Prerequisite: Biology 101-102 or Biology 213, 214. Taught summer session.

Elementary principles of bacteriology; emphasis on microorganisms as etiological agents in disease; practical methods of disinfection; factors of infection and immunity.

213, 214. Human Anatomy and Physiology. [4-3-2]

No prerequisites. Taught both semesters.

Comprehensive and systematic study of the normal living processes; structure and function of the human body.

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.

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

Prerequisite: Biology 206 or consent of instructor. Taught spring semester, 1976-77.

79/Biology

Identification and design characteristics of ornamental plants.

301. Microbiology. [4-3-4]

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

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

302. Introductory 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 hydrosphere; application of basic ecological principles to the marine environment; history of oceanography.

302a. Introductory 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, 1975-76.

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, 1975-76.

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, 1976-77.

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 321, 325 are suggested or consent of instructor. Taught spring 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: Chemistry 121-122 and Chemistry 125-126. Taught fall semester, 1976-77.

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 fall semester, 1976-77.

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, 1975-76.

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, 1976-77.

Principles and practices of horticultural plant propagation.

312. Invertebrate Zoology. [4-3-4]

Taught spring semester.

Morphology and ecology of representative invertebrates studied in the field and laboratory.

395. 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 may fill a particular need not filled by regular courses. Biology majors may offer no more than nine credits in topics toward graduation.

405. Advanced Marine Science. [3-3-0]

Prerequisite: Concurrent or previous registration in Bio-

logy 302. Taught spring semester.

Principles of marine ecology; biogeography; pollution ecology; application of statistical methods to analysis of marine data.

403a. Advanced Marine Science Laboratory. [1-0-4]

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

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

Taught fall semester, 1975-76.

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, 321-322, 326. Taught fall semester, 1975-76.

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

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

Prerequisite: Concurrent or previous registration in 414. Taught fall semester, 1975-76.

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

Prerequisite: Biology 217 or consent of instructor. Taught spring semester, 1975-76.

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, 1975-76.

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

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 se-

mesters' enrollment.

495. 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 may fill a particular need or be an advanced treatment of a regular course. Biology majors may offer 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 adviser. No more than three credits may be submitted for the degree.

Chemistry

The Chemistry Department is committed to providing students with an understanding of the methods of a physical science. For science majors, the laboratory and lecture courses are designed to allow students with varying levels of preparation to reach the level of proficiency necessary for more advanced work.

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.

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 Bio-chemistry (Biology 414a) satisfy the remaining credit hour requirements.

Diagnostic tests in chemistry and mathematics are offered for all students beginning work in the Department and are used in helping students select the appropriate beginning course in each area. Students with weak mathe-

matics backgrounds 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. Students beginning the chemistry sequence with Chemistry 103 should plan to take Chemistry 122 and Chemistry 126 before the end of the summer session (Chemistry 105 is optional in this sequence).

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) is required.

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

Sample Program

Course	Hours
<i>Freshman Year</i>	
Chemistry 121-122	6
Chemistry 125-126 (lab)	4
Mathematics 130, 230	7
English 101-102	6
Physical Education	2
Related field or distribution requirements	6-8
	31-33
<i>Sophomore Year</i>	
Chemistry 321-322	6
Chemistry 345, 346 (lab)	4
Mathematics 240	3
Physics 101-102	8
German 101-102	8
Humanities elective	3
	32
<i>Junior Year</i>	
Chemistry 341-342	6
Chemistry 345-346	4
Chemistry 490	0
Chemistry 495	3
Physics, Biology or Mathematics elective	3-4
Language	6-8
Electives	3-6
	29-34
<i>Senior Year</i>	
Chemistry 360	2
Chemistry 490	1
Chemistry 495	6
Chemistry 499	3

Electives

18

30

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

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

First semester: a survey of the fundamentals of general and inorganic chemistry. Second semester: a survey of organic and biochemistry (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] [1-0-3]

Co-Requisite: Chemistry 103-104. 105 taught in fall and summer semester; 106 taught in spring and summer semester.

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 semester; 122 taught in spring and summer semester.

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 semester; 126 taught in spring and summer semester.

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 101. 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.

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

Prerequisite: Chemistry 322, 326. Taught fall semester, 1976-77.

Investigation of modern techniques of organic synthesis.

490. Seminar. [1-1-0]

Prerequisite: Departmental consent required. Taught both 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 both 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 both semesters.

May be taken for up to three credits.

Computer Science

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 presently offer a major in Computer Science, it does administer an interdisci-



plinary degree in Management 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 350, 430, and 440.

Computer Science 200 is recommended for non-science majors. Computer Science 220 is designed for MIS, 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]

Taught Both semesters.

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/1, 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 indepth 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 design and analysis 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; one year of college mathematics, Mathematics 310 desired. 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. Taught spring semester, 1976-77.
Advanced techniques in Operations Research. Topics include probability, statistical inference, decision theory, queueing theory and its applications, inventory theory, Markov chains, non-linear programming, and classical optimizations.

440. Information Systems Design. [3-3-0]
Prerequisite: Computer Science 220 and Computer Science 240; Computer Science 350 recommended. Taught spring semester.
Introduction to the concepts and techniques of designing 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 the 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.

Geography

One of the oldest sciences, geography is a study of location, site, and place and seeks the interrelatedness of physical, locational, and human factors. By investigating location, the environment, and the earth as home of man, geography embraces elements of the physical as well as the social sciences. The principal tool is the map, and the scope of investigations is either global or regional.

Students seeking teaching certificates or urban affairs specialization are required to take geography courses. The subject fulfills social science requirements, and is available as a minor. Geography is very useful for professional and vocational preparation in business, industry, government, education, finance, and other pursuits. This discipline is, of course, of particular benefit to those who are interested in the world in which we live and those who seek a well-rounded, interdisciplinary education.

Requirements for a minor in geography call for completion of required English and science courses. Proficiency in a modern foreign language is highly desirable. A concentration in geography calls for Cartography, Physical Geography, Economic Geography, and Regional Geography. An additional six hours must be taken in geography subjects of interest to the student.

At least 18 semester hours, including Geography 101, must be completed in the discipline. There is no limit on the number of topics courses taken in geography.

The Geography Department offers maritime-oriented courses in cooperation with local agencies, firms, and institutes. These courses are designed to suit the needs of students, the College, and the community.

101. Maps and Charts. [3-3-1]

Taught in fall semester.

A course in elementary cartography that favors a practical approach. This course investigates the development of maps, globes, charts and imagery and examines map elements, projections, photo interpretation techniques, and cartographic principles. The student has an opportunity to develop practical skills and to design, draw and use maps. Required for a geography minor.

201. Physical Geography. [3-3-0]

Taught in spring semester.

The investigation of the physical environment and interrelationships of planet earth. The student becomes acquainted with land forms, climates, soils, and earth processes. Required for a geography minor.

202. Geography of the Oceans. [3-3-0]

Taught in fall semester

A physical geography course that investigates oceans, seas, ice regions, and the sea-land interface. Stress is placed upon the effects of the sea on climate, land, and man.

252. Economic Geography. [3-3-0]

Taught in 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, energy problems, and the role of transportation are investigated in geographic perspective. Required for geography minors and recommended for those seeking teaching certification.

351. Geography of Cities. [3-3-0]

Prerequisite: Three hours of Geography or six hours in Political Science. Taught in fall semester.

An analysis and evaluation of urban settlements and their development from cradle area to modern metropolitan region. City location, function, classification, urban planning and land use concepts are investigated. Several field trips are part of the course.

360. Political Geography. [3-3-0]

Prerequisite: Three hours in Geography, or Political Science, or enrollment in ROTC, or consent of instructor. Taught in spring semester.

This course investigates geographic factors in the existence of states and the exercise of national power in the conduct of operations on land, at sea, in the air, and in space. Concepts are examined in a geopolitical perspective.

375. Geography of Virginia. [3-3-0]

Prerequisite: Geography 101, 201, or 202 recommended. Taught in fall semester.

A regional geography course representing an analysis of the Commonwealth of Virginia as a key state on the Eastern Seaboard of the United States. Field trips are included. Suitable for anyone interested in the Chesapeake Bay area and for those seeking certification or recertification. Required for geography minors.

395. Topics in Geography. [3-3-0]

Prerequisite: Junior standing, six hours in Geography, or consent of instructor.

A study of selected topics ranging from regional courses to specialized subjects. For example: *Geography of Europe* will be a topical offering.

450. Maritime Geography. [3-3-0]

Prerequisite: Geography 201, 202 or consent of instructor. Taught in spring semester.

The seas are examined as a source of wealth, as a means of transportation, and as seaward extensions of national interests. Special emphasis is placed on the pursuit of maritime activities and human settlement in coastal areas.

Mathematics

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 or when they are unsure of the results of the 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.

To satisfy the distribution requirement of six hours of mathematics, a student must complete satisfactorily two of the following courses: Mathematics 110, 120, 130, 220, or just 230.

A major concentration in mathematics requires satisfactory completion of Mathematics 310, 340, and 410 and at least fifteen 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.

A minor concentration in mathematics requires satisfactory completion of Mathematics 310, 320, 330, and at least six additional credits in courses above the 200-level in this department.

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 Collegiate Professional Certificate in 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 Sciences 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 110, 130, 230, or 240	6-7
Computer Science 220	3
Distribution	16-17
	31-33
Sophomore Year	
Physics 101-102	8
Math 230, 240, 310, or 330	6-12
Distribution	10-16
Second Area	0-8
	24-44
Junior Year	
Math 320, 340, 360, and others	9-15
Second Area	6-9
Electives	6-15
	21-39
Senior Year	
Math 410 and others	6-12
Second Area	6-15
Electives	3-18
	15-45

110. College Algebra. [3-3-0]

Prerequisite: One year of high school algebra or acceptable score on placement test. Taught both semesters. polynomials, rational expressions, exponents, equations and inequalities, functions, logarithms, matrices, and systems of equations.

120. Finite Mathematics. [3-3-0]

Prerequisite: One year of high school algebra, acceptable score on placement test, or Math 110. Taught both semesters.

Topics include logic, sets, trees, combinatorics, permutations, elementary probability, finite sample spaces, Markov chains, matrices and matrix games, linear programming, graphs, or digraphs.

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 functions, trigonometric identities, and exponential and logarithmic functions.

220. Elementary Statistics. [3-3-0]

Prerequisite: One semester of college mathematics. 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.

230. 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.

240. Intermediate Calculus. [3-3-0]

Prerequisite: Math 230 or acceptable score on the placement test. 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.

310. Linear Algebra. [3-3-0]

Prerequisite: Math 230. Taught both semesters.

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.

320. Ordinary Differential Equations. [3-3-0]

Prerequisite: Math 240 (although Math 310 and 330 are not required, they are highly recommended). Taught both semesters.

An exposition of the theory and methods of solution of elementary differential equations along with applications. Topics include series solutions of second order linear equations, Laplace transforms, systems of first order equations, and an introduction to Sturm-Liouville theory.

330. 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.

340. Advanced Calculus. [3-3-0]

Prerequisite: Math 240, 310, and 330; or consent of instructor or chairman. Taught fall semester.

Differential geometry of curves, 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.

360. Topics in Advanced Calculus. [3-3-0]

Prerequisite: Math 340 or consent of the instructor or chairman. Taught spring semester.

A one-semester course covering various topics in advanced calculus and elementary analysis. Topics 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.

395. Elementary Topics. [3-3-0]

Prerequisite: Consent of the instructor or the chairman of the department unless otherwise listed. Taught both semesters.

This course will usually consist of one or more of these topics: applied abstract algebra, automata theory, graph theory, lattice theory, numerical analysis, numerical methods and techniques, probability, or statistics. The exact course(s) to be offered in any one semester and a description of the course(s) will be found in the preregistration schedule for that semester.

410. Abstract Algebra. [3-3-0]

Prerequisite: Math 310 and upper-level mathematics standing. Taught spring semester.

An introduction to algebraic structures, elementary number theory, groups, rings, homomorphism theorems, quotient structures, polynomial rings, and fields.

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

Prerequisite: Consent of the instructor or the chairman of the department, unless otherwise listed. Taught both semesters.

This course will usually consist of one or more of these topics: advanced differential equations, complex variables, geometry, operations research, optimization, partial differential equations, 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 preregistration schedule for that semester.

Physics

The Physics Department offers a core of traditional courses in physics for students in science, mathematics, and pre-engineering. 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 urban problems and to increase public awareness of the relation between science and technology and the realm of human values. Because of these special goals, the Department offers courses that will interest students in the liberal arts, and in business, and members of the community. The orientation of the Department is the applied use of physics in the study of the modern world.

The Department offers programs in six major areas, each of which contains courses, workshops, seminars, or topical design problems. Formal course offerings appear below, but the current class schedule or the department chairman should be consulted for information on topics courses, workshops, or design projects that are available each semester.

The courses offered by the Department will make it possible for students to develop any one of the following concentrations in physics: (1) a minor in physics for science and math majors; (2) a two-year basic pre-engineering program; (3) a pre-professional physics program; (4) a program of re-certification for science teachers. Students interested in a value-oriented physics program designed specifically for liberal arts and business majors should see members of the Department for help in planning a program that will take into consideration their career plans and special abilities.

103,104. *Elementary Physics.* [4-5-3]

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.

201-202. *General Physics.* [4-5-3]

Prerequisite: Mathematics 230 (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.

301. *Classical Physics I: Mechanics.* [4-5-3]

Prerequisite: Mathematics 230. 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 Physics 2: Continuum Mechanics.* [4-5-3]

Prerequisite: Mathematics 240. Mathematics 330 and Physics 201 are desirable but can be waived with consent of instructor. Taught spring semester, 1976-77. The mechanics and thermodynamics of fluids and elastic solids presented in terms of vectors, tensors, and linear transformations. Applications in biophysics, engineering, and hydrodynamics. Laboratory emphasizes experimental stress analysis (strain gages, photoelasticity, Moire fringes) and computer solutions.

304. *Classical Physics 3: Electromagnetism.* [4-5-3]

Prerequisite: Mathematics 240. Mathematics 330 and Physics 201-202 are desirable but can be waived with consent of instructor. Taught spring semester, 1975-76. The electrostatics and electrodynamics of lumped and continuous systems presented in terms of vectors and tensors. Electrostatics, magnetostatics, solutions of Maxwell's equations, AC circuits, relativistic electrodynamics, reflection and refraction. Laboratory stresses computer solutions and experimental analyses of electromagnetic phenomena.

322. *Exploration of the Universe: Astronomy.*

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" telescope, a radio telescope, and a planetarium are available.

351. *Modern Physics 1: Atomic Physics.* [2-2-0]

Prerequisite: Physics 201-202 or consent of the instructor. Taught spring semester, 1976-77.

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 2: Solid State Physics.* [2-2-0]

Prerequisite: Physics 201-202 or consent of instructor. Taught fall semester.

A survey of the developments in solid state physics: crystal structure, thermal, mechanical and electromagnetic properties of materials. Applications to semiconductors, lasers and masers, superconductors, and engineering materials.

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 technology assessment, science and questions of values, physics for children, physics and photography, physics and art. And mini-courses for teachers. 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, 1975-76.

Review of the crucial ideas and experiments leading to the development of quantum theory. Axiomatic formulation of the theory with applications to simple systems.



Business and Economics

The Division of Business and Economics offers a program which devotes a larger portion of its curriculum to study in the arts and sciences than is usual in business programs. Primary objectives of the Business and Economics Division are to foster the student's understanding of the values and accumulated knowledge of our society as well as to prepare the student to function successfully in a changing and dynamic environment.

The faculty of the Division of Business and Economics is aware that the successful individual in business must possess personal standards of merit and achievement and must understand the impact of business policy decisions on society. These objectives are accomplished through a degree program which requires a varied foundation in liberal arts as well as the traditional curriculum in business.

The Division offers the Bachelor of Science Degree in Business Administration. Within this degree there are seven concentrations: accounting, finance, management, marketing, retailing, real estate, and economics. The courses in the curriculum are designed to provide the student with experience in: understanding the basic language of business through the application of accounting principles; appreciating the underlying dynamics in the economy, government regulation, and the social environment in which business functions; understanding management theory and practice as it applies to the organizational structure of business and the individual's role within it; using quantitative and qualitative measurement techniques to evaluate performance; defining and determining the needs of a fluctuating marketplace; and presenting oral and written analyses of business problems.

All student earning the B.S. in Business Administration degree must take the following core courses: Accounting 201-202; Economics 201-202; Economics 301; Business 311; Business 323; Business 324; and Business 408.

The student may elect not to count the introductory courses (Economics 201-202, Accounting 201-202, Business 311, and Business 324) among the hours counted in his or her major requirement. Accounting majors must make the above election for a minimum of twelve hours in order to meet the minimum accounting concentration requirements.

The area of concentration must be declared before beginning the last two semesters' work at the college. If the student elects the accounting concentration, he or she must declare this intention before the beginning of the last four semesters' work at the College.

A student majoring in an area outside the Division of Business Administration and Economics may minor in accounting or economics. The courses required for a minor in accounting are Accounting 201-202, 301-302, and 303-304. The courses required for a minor in economics are

Economics 201-202, 301, 303-304, and six more hours above the 200-level economics courses.

Sample Program for the Freshman and Sophomore Years in Business Administration

Course	Hours
<i>Freshman Year</i>	
English 101-102	6
Math 110	3
Social Science	6
Laboratory Science	8
Physical Education	2
Business 108	3
	28
<i>Sophomore Year</i>	
Humanities 200 level and Speech 201; or a 200-level Humanities sequence	6
Accounting 201-202	6
Economics 201-202	6
Business 324	3
Social Science	6
Computer Science 220	3
	30

Accounting and Finance

The Department offers two concentrations, accounting and finance. The concentration in accounting prepares the student to pursue professional objectives leading to careers in private, governmental, or public accounting. The course work prescribed in the accounting concentration meets the requirements of the Virginia State Board of Accountancy for eligibility to take the Uniform Certified Public Accountant Examination.

The finance concentration prepares the students for careers in financial institutions and private corporations. This concentration involves knowledge of financial instruments, money markets, government regulations, and stock and bond exchanges.

Accounting [Twenty-seven credits required]

The following courses are required: Accounting 301-302, *Intermediate Accounting*; Accounting 303-304, *Cost Accounting*; Accounting 405, *Auditing*; Business 341-342, *Business Law*; Accounting 400, *Advanced Accounting*.

One of the following courses is also required: Accounting 351, *Governmental and Institutional Taxations*; Accounting 401, *Taxation*; Accounting 402, *Advanced Taxation*; Accounting 403, *Accounting Theory*; Accounting 495, *Topics*. For a minor in accounting, the student must take Accounting 201-202, 301-302, and 303-304.

Suggested Course Outline for Accounting Concentration

Course	Hours
<i>Junior Year</i>	
Accounting 301-302; 303-304	12
Economics 301	3
Business 311, 323, 341-342	12
Math 220	3
Non-Business Electives	3
	33
<i>Senior Year</i>	
Accounting 400, 405	6
Accounting (351, 401, 402, 403)	3
Electives	19*
Business 408	3
	31

*Of these electives, six hours may be in business if the student declares eighteen hours of basic courses as general electives.

Finance [Fifteen credits required]

The following courses are required: Accounting 410, *Managerial Accounting*; Business 418, *Business Policy and Management*; Business 421, *Investments*. Six credits are required from the following courses: Accounting 401, *Taxation*; Accounting 402, *Advanced Taxation*; Business 461, *Public Policy Toward Business*; Business 473, *Real Estate Finance*; Business 495, *Advanced Topics*; Economics 302, *Public Finance*; Economics 420, *Business Conditions and Forecasting*; Economics 470, *International Trade and Finance*.

Suggested Course Outline for Finance Concentration

Course	Hours
<i>Junior Year</i>	
Business 311, 323	6
Economics 301	3
Math 220	3
Finance concentration	6
Non-Business Electives	15
	33

<i>Senior Year</i>	
Business 408	3
Non-Business Electives	19*
Finance concentration	9
	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.

Acct. 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.

Acct. 301-303. 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.

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

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

Prerequisite: Accounting 201-202. Taught on demand. Budgetary accounting and finance control and their applications to various governmental units, more particularly to cities, counties, and other political subdivisions and public institutions.

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

Prerequisite: Accounting 301-302. Taught spring semester.

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

Acct. 401. Taxation. [3-3-0]

Prerequisite: Accounting 201-202. Taught fall semester. A review of federal income tax laws as applied to individuals.

Acct. 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.

Acct. 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.

Acct. 405. Auditing. [3-3-0]
Prerequisite: Accounting 301-302, and Math 220. Taught fall semester.

Conceptual approach to auditing principles and procedures in the preparation of auditing reports. Professional standards and ethics are emphasized.

Acct. 410. Managerial Accounting. [3-3-0]
Prerequisite: Accounting 201-202. Taught either semester. For non-Accounting majors only.
The study of the use of accounting data by management in planning, budgeting, and forecasting business and economic variables.

Acct. 495. Accounting Topics.
Prerequisite: Permission of Department Chairman.
Topical seminars in accounting. The number of credits may vary.

Bus. 323. Corporate Finance. [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; income, working capital requirements, corporate expansion, failure and reorganizations. Attention given to the importance of taxation to corporate financing and to corporate responsibilities affecting the public interest.

Bus. 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 antitrust legislation.

Bus. 421. Investments. [3-3-0]
Prerequisite: Business 323. Taught both semesters.
An analysis of investment risks, portfolio management, and the securities markets. Analysis and solution of financial problems related to investment.

Bus. 495. Finance Topics.
Prerequisite: Permission of the Department Chairman.
Topical seminars in finance. The number of credits may vary.

Economics

The Department of Economics provides theoretical and analytical tools of economic analysis for the business major in his or her concentration: accounting, finance, management, marketing, retailing, real estate, or economics. The Department also offers a concentration in economics for students seeking the Bachelor of Science in Business Administration. This concentration is parallel in content and requirements to the baccalaureate degree in economics offered at other institutions.

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.

The general requirements for a concentration in economics are outlined in the general requirements for Bachelor of Science in Business Administration. The concentration in economics requires the completion of fifteen credits, including these two required courses: Economics 303, *Intermediate Economic Analysis* (Micro); and Economics 304, *Intermediate Economic Analysis* (Macro). Nine credits are required from the following courses: Economics 302, *Public Finance*; Economics 351, *Urban Development Economics*; Economics 420, *Business Conditions and Forecasting*; Economics 451, *The Economics of Labor and Collective Bargaining*; Economics 470, *International Trade and Finance*; Economics 490, *Managerial Economics*; Economics 495, *Topics*.

Suggested Course Outline for Economics Concentration

Course	Hours
Junior Year	
Econ. 301	3
Economics Concentration	6
Business 311, 323	6
Math 220	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.

Econ. 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 sub-

jects are considered, and alternative courses of public policy are evaluated. First semester macroeconomics; second semester microeconomics.

Econ. 225. Economics for Teachers. [3-3-0]
Prerequisite: Economics 201-202 or consent of 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.

Econ. 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.

Econ. 302. Public Finance. [3-3-0]
Same as Political Science 302. Prerequisite: Economics 201-202. Taught spring semester, 1975-76.
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.

Econ. 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.

Econ. 304. Intermediate Economic Analysis. [3-3-0]
Prerequisite: Economics 201-202. Taught spring semester.
A study of macroeconomics theory of classical, neo-classical and Keynesian aggregative economics. Economic 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.

Econ. 340, 341. Economic History of the United States. [3-3-0] [3-3-0]
Same as History 340, 341. Taught in 1975-76.

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.

Econ. 420. 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.

Econ. 351. Urban Development Economics. [3-3-0]
Prerequisite: Economics 201-202. Taught fall semester, 1975-76.

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.

Econ. 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.

Econ. 470. International Trade and Finance. [3-3-0]
Prerequisite: Economics 201-202. Taught fall semester, 1976-77.

An analysis of the development of international trade theory from the thirteenth century to the present. A study of balance of payments equilibrium, foreign exchange, international finance, and especially international economic developments since World War II.

Econ. 490. Managerial Economics. [3-3-0]
Prerequisite: Economics 201-202 and Accounting 201-202. Taught once a year.

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.

Econ. 490. Economic Topics. [3-3-0]

Same as Business 495. Taught spring semester, 1976-77.
Topical seminars in Economics to cover a variety of areas: comparative systems, economic thought and methodology, and current economic issues. Only majors in business administration and economics may enroll.

Management, Marketing, and Retailing

The Department of Management, Marketing and Retailing offers concentrations in four specified areas: management, marketing, retailing, 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 sales promotion.

The retailing concentration deals primarily with salesmanship and merchandising techniques, store operations, and buying procedures. The retailing concentration may be elected for the B.S. degree, and it is also possible to obtain an Associate of Arts degree in this area. The Associate of Arts program provides opportunities for the student to obtain College credits under a supervised work/study program. The two-year degree is co-sponsored with the Virginia State Department of Education.

The Department of Management, Marketing and Retailing 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.

Management [Fifteen credits required]

The following course is required: Business 418, *Business Policy and Management*. Twelve credits are required from the following courses: Economics 490, *Managerial Economics*; Economics 420, *Business Conditions and Forecasting*; Economics 451, *The Economics of Labor and Collective Bargaining*; Psychology 330*, *Industrial Psychology*; Psychology 313*, *Human Relations in Organizations*; Accounting 410, *Managerial Accounting*; Business 412*, *Personnel Management*; Business 431, *Production Management*; Business 461, *Public Policies Toward Business*; Business 495, *Topics*.

*From Psychology 303, Psychology 313, and Business 412, only two courses may be elected. Psychology 303 and Psychology 313 count toward the forty-two hours required in business if this concentration is elected.

Suggested Course Outline for Management Concentration

Course	Hours
<i>Junior Year</i>	
Business 311, 323	6
Economics 301	3
Math 220	3
Management Concentration	6
Non-Business Elective	15
	33
<i>Senior Year</i>	
Business 408	3
Non-Business Electives	19*
Management Concentration	9
	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.

Marketing [Fifteen credits required]

The required courses are Business 450, *Advanced Marketing* and Business 452, *Marketing Research*. Nine credits are required from the following courses: Accounting 410, *Managerial Accounting*; Business 418, *Business Policy and Management*; Business 452, *Marketing Promotion*; Business 461, *Public Policies Toward Business*; Business 454, *Consumer Behavior*; Business 495, *Topics*; Economics 303, *Intermediate Economic Theory (Micro-analysis)*; Retailing 336, *Retail Store Organization and Operation*.

Suggested Course Outline for Marketing Concentration

Course	Hours
<i>Junior Year</i>	
Business 311, 323	6
Economics 301	3
Math 220	3
Marketing Concentration	6
Non-Business Electives	15
	33
<i>Senior Year</i>	
Business 408	3
Non-Business Electives	19*
Marketing Concentration	9
	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.

Retailing [Twelve credits required]

The required courses are Business 336, *Retail Store Organization and Operation*; Business 337, *Retail Sales Operation*; Business 338, *Retail Buying Procedures*; and Business 452, *Marketing Research*.

Suggested Outline for Retailing Concentration

Course	Hours
<i>Junior Year</i>	
Business 311, 323	6
Economics 301	3
Math 220	3
Business 335, 337, and 338	9
Non-Business Electives	12
	33
<i>Senior Year</i>	
Business 408	3
Non-Business Electives	22*

Marketing Research	3
Business Elective	3
	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.

Associate in Arts Degree in Retailing

This program is designed to prepare the student for middle-management, supervisory or specialized careers in large and small retail businesses. A wide variety of positions are open in sales management, advertising, display, personnel, buying, merchandising, and public relations. The coordination of classroom instruction and directed occupational experiences in distributive businesses offers students an excellent opportunity to qualify for these and many other positions in business.

The student completes a planned program of study which includes an average of 450 hours of on-the-job training during the two-year sequence. For the student who has not completed a minimum of one year Distributive Education cooperative training in high school, additional directed occupational experience (250 hours, minimum) is required. The degree program is designed to strengthen basic academic understanding while giving the student an opportunity to take general and specialized courses related to marketing and distribution with special emphasis on retailing. The faculty adviser in Retailing assists the student in curriculum planning, job placement, and progress at school and on the job. This program is co-sponsored by the Distributive Education Service, State Department of Education.

After completing the two-year program, a student may go directly into the field of business or continue toward a four-year degree in Business Administration. The baccalaureate programs in Business Administration with a concentration in *Retailing* and a concentration in *Marketing* offer the two-year Retailing graduate excellent avenues for continuing his or her formal education.

The request for admission as a student interested in the Retailing program should be clearly stated on the application for admission.

Sample Program for Associate in Arts Degree in Retailing

Course	Hours
<i>First Year</i>	
Business 101, 104, 203, 205	11
English 101-102	6
Math 110, 220	6
Economics 201-202	6
	29

Second Year

Business 204, 336, 337, plus 6 electives in retailing	14
Sophomore Humanities Courses	6
Laboratory Science	8-10
Physical Education	2
Elective	3
	33-35

Real Estate

[Twelve credits required]

The required courses is Business 322, *Principles of Real Estate*. Nine 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*.

Suggested Course Outline for Real Estate Concentration

Course	Hours
Junior Year	
Business 311, 323	6
Economics 301	3
Math 220	3
Business 322	3
Non-Business Electives	18
	33
Senior Year	
Business 408	3
Real Estate Concentration	9
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 business courses as general electives.

Management, Marketing, and Retailing

Bus. 101. Principles of Salesmanship. [3-3-0]
Taught both semesters.
Effective selling techniques, careers in selling, selling and the economy, and selling ethics are discussed and related to the student's directed occupational experience. The student is required to give a number of sales demonstrations in class in order to show his or her ability to conduct a sales interview.

Bus. 102. Introduction to Business. [3-3-0]
Taught both semesters.
This course explores and analyzes the broad area of business administration from the manager's perspective.

Included is a review of decision making, business resources, and the current business environment. Not open to classified business majors.

Bus. 103-104. Directed Occupational Training.
Taught once a year.
Minimum of two-hundred and twenty-five hours occupational training is required. The directed occupational training is conducted in selected retail, wholesale, or service businesses. Written assignments related to the student's occupational objectives are included. Not open to junior or senior students. Two credits each semester.

Bus. 108. Mathematics Business Finance. [3-3-0]
Prerequisite: Mathematics 110. Taught both semesters.
Emphasizes such practical business problems as simple interest and discounts, averaging methods, inventory evaluation, compound interest, annuities, and perpetuities.

Bus. 202. Personnel Techniques in Distribution. [3-3-0]
Taught once a year.
A study of personnel techniques used in supervisory and middle management, training, and interviewing, employee motivation, and a basic understanding of the personnel management function. Classroom instruction is related to the student's job experience.

Bus. 204. Directed Occupational Training.
Taught once a year.
A minimum of two-hundred and twenty-five hours occupational training is required. The directed occupational training is conducted in selected retail, wholesale, or service businesses. Written assignments related to the student's occupation objectives are included. Not open to junior or senior students. Two credits each semester.

Bus. 205. Product Knowledge. [3-3-0]
Taught once a year.
A study of materials used, construction, care, and government regulations of various types of such merchandise as textiles, chinaware, glassware, silverware, leather, jewelry, furniture and other types of home furnishings. Values and quality standards for the consumer are stressed.

Bus. 311. Principles of Marketing. [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.

Bus. 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.

Bus. 324. Principles of Management. [3-3-0]
Taught both semesters.
The fundamentals of management underlying the areas of organization and operation of business enterprises. Emphasis will be placed on such basic functions of management as planning, organizing, directing, staffing, and controlling business activities.

Bus. 336. Retail Store Organization and Operation. [3-3-0]
Taught once a year.
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.

Bus. 337. Retail Sales Promotion. [3-3-0]
Taught once a year.
The scope and activities of sales promotion in retail stores with emphasis on coordination of advertising, display, special events, and publicity. External and internal methods of promoting business, budgeting, planning, and implementing the plan.

Bus. 338. Buying Procedures and Problems. [3-3-0]
Taught once a year.
A study of problems involving initial markup, maintained markups, retail method 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 marked procedures are emphasized and practiced with projects.

Bus. 395. Elementary Topics in Retailing. [3-3-0]
Taught in 1975-76.
Presentation and discussion of recent trends in current problems of the retail industry. The seminar topics will reflect student interest.

Bus. 408. Quantitative Analysis. [3-3-0]
Prerequisite: Mathematics 110, 220; Accounting 201-202; Business 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.

Bus. 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 in-

roduction to wage and salary administration.

Bus. 418. Business Policy and Management. [3-3-0]
Prerequisite: Accounting 201-202, Business 324, 311, and 323. 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.

Bus. 431. Production Management. [3-3-0]
Prerequisite: Math 220, Accounting 201-202, Business 324. Taught fall semester.
An analysis of production, with concentration on the method, design, and operation of production systems.

Bus. 450. Advanced Marketing. [3-3-0]
Prerequisite: Accounting 201-202, Business 311, Math 220. Taught both semesters.
Analyzes the allocation and performance of those activities occurring in the distribution channels. Analyzes various products and their movement through distribution channels from supplier to consumer.

Bus. 452. Market Research. [3-3-0]
Prerequisite: Accounting 201-202, Business 311, Math 220. Taught both semesters.
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.

Bus. 453. Marketing Promotion. [3-3-0]
Prerequisite: Accounting 201-202 and Business 311. Taught once a year.
A study of sale management, advertising, and sales promotion with emphasis on the efficient blending of these functions.

Bus. 454. Consumer Behavior. [3-3-0]
Prerequisite: Math 220, Business 311, Accounting 201-202. Taught once a year.
A study of the motivation and behavior of the consumer in the market place. The course draws on such disciplines in the behavioral sciences as psychology, sociology, and anthropology and provides students with insight into the dynamics of the consumer's way of thinking.

Bus. 461. Public Policies Toward Business. [3-3-0]
Prerequisite: Accounting 201-202, Economics 201-202, and Business 324. Taught both semesters.
A study of the economic, legal, and political aspects of government regulations, particularly the taxation of, aid to, and competition with private business. Emphasis on the problems of industrial concentration, conglomerate mergers, and monopoly power.

Bus. 470. Real Estate Law.

Prerequisite: Business 322 or consent of instructor.
Taught once a year.

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.

Bus. 471. Real Estate Appraisal. [3-3-0]

Prerequisite: Business 322 or consent of instructor.
Taught once a year.

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.

Bus. 472. Real Estate Brokerage. [3-3-0]

Prerequisite: Business 322 or consent of instructor.
Taught once a year.

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.

Bus. 473. Real Estate Finance. [3-3-0]

Prerequisite: Business 322 or consent of instructor.
Taught once a year.

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.

Bus. 495. Topics in Business. [3-3-0]

Taught once a year.

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.



Education and Communications

Basic Studies

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 in the College.

While the Department primarily 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 complete the necessary preparation in one semester, other require two or more semesters to achieve the competence sufficient for successful performance in the College curriculum. These students must re-enroll in one or more of the courses until the course objectives are attained. Students who are not enrolled in the courses but who seek tutorial assistance may arrange a schedule for learning with individual members of the Department.

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

010. Basic Studies Reading. [2-2-3]

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. Basic Studies Writing. [2-2-3]

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. Basic Studies Mathematics. [2-2-0]

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.

Communications

Courses in Communications present the theory and practice of using symbolic vehicles, particularly language, in transmitting, apprehending, and evaluating information and ideas. Its courses are frequently interdisciplinary and cross-listed with other departments' courses.

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

Prerequisite: Sophomore standing or permission of instructor. Taught in spring semester.

Theory of the reading process and techniques directed toward efficient study and reading: speed, concentration, recall; concrete, inferential, and evaluative comprehension; critical discussions of writing which present different points of view.

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

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

A journalism course emphasizing the fundamentals of gathering and evaluating news and constructing news stories and features.

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.

Education

The Department of Education offers a Bachelor of Arts degree in Elementary Education with certification at the early childhood level and the upper grades. Courses are offered which allow majors in other departments to obtain the Collegiate Professional Certificate in secondary education. Through these programs the Department seeks to meet the unique needs of students at an urban, non-residential, commuting college and to serve the metropolitan area in the specific fields of undergraduate and in-service teacher education.

These programs of studies are based on the belief that a strong liberal arts foundation, the intensive study of the principles and practices of education, and continuous application of knowledge and skills provide effective preparation for elementary and secondary teaching.

A major in elementary education requires a minimum of

thirty-nine semester hours, including Education 320, 325, 330, 332, 334, 336, 341, 420, 401, 405, 406, and 414. In order to satisfy the college distribution requirements for the bachelor's degree and meet State certification requirements for elementary teachers in Virginia at the early childhood level (NK-3) or the upper elementary level (4-7), the elementary education major must take the following: English 101-102, 420, and six hours of literature; Speech 201; six hours of mathematics; eight hours in the natural sciences; Physical Education 308, 321, and two activities courses; three hours of economics; three hours of geography; History 101 or 102 and 201 or 202; and Psychology 201, 308, and 312. In consultation with his or her adviser, the student (E, 4-7) should select a minimum of twenty-one hours in an academic area included in the curriculum of elementary schools; in consultation with his or her adviser, the student (N, NK-3) should select electives which develop competence in early childhood education.

A minor in Secondary Education requires the completion of twenty-four semester hours: Psychology 307 or 309 and 312; and Education 303, 341, 401, 403, and 414. A minor in Elementary Education requires the completion of eighteen semester hours of education courses, including Education 312, 320, and 341. Students are strongly urged to take Education 341, *Cultural Foundations of Education*, before enrolling in other education courses.

SECONDARY EDUCATION

The College offers courses which will fulfill the requirements for the Collegiate Professional Certificate in secondary education. Students may be endorsed to teach in the following subject areas: biology; English; English and (Speech, Journalism, or Dramatics); French, general science; German; government; history; history and social science (in addition to history courses, this endorsement requires twelve credits of political science, six of economics, and six of geography); mathematics; physical education; and Spanish. Students may also be endorsed to teach psychology and sociology, but because of the lack of student-teaching opportunities in these fields, students majoring in psychology or sociology should also meet certification requirements in another teaching field. As the College expands its offerings, other areas will be added.

State Certification Regulations for Teachers in Virginia General Requirements

An applicant must possess a baccalaureate degree with a background of forty-eight hours in general education, including a minimum of (1) twelve hours in Humanities. English composition is required, and the balance may be taken in foreign language, literature, speech, fine arts, music, and philosophy. (2) Twelve hours are required in the Social Sciences. American history is required, and the

balance may be selected from any of the following fields: history, anthropology, sociology, economics, political science, geography, and psychology. (3) Twelve hours are required in laboratory science and mathematics with at least one course in each area. (4) Four hours of health and physical education are required, including at least one course in each area, and P. E. 321.

It is recommended that all teachers take a course in speech and one in basic economics to satisfy in part the general education requirements.

Professional Requirements for Secondary Education

This program meets the professional education requirements for certification in secondary education: Psychology 307, *Developmental Psychology*, or Psychology 309, *Psychology of Adolescence*; Education (Psychology) 312, *Educational Psychology*; Education 303, *Instructional Materials and Methods* (should be taken the semester before student teaching); Education 341, *Cultural Foundations of Education* (students are urged to take this course before enrolling in other education courses); and during one semester of the senior year Education 401, *Supervised Teaching*; Education 403, *Methods of Teaching in the Secondary School*; and Education 414, *Educational Measurements and Evaluation*.

Student Teaching

The elementary student teaching block of fifteen hours (Education 401, 405, 406, and 414) is offered in the senior year. Students must register for the entire student teaching block and may not register for other courses during that semester. The secondary student teaching block of twelve semester hours (Education 401, 403, and 414) is offered in the senior year. Students must register for the entire student teaching block and are permitted to carry one additional course that is scheduled to meet in the evening.

Students who plan to student teach must meet the following criteria for admission to the program: they must (1) have achieved a grade point average of at least 2.0 (on a 4.0 scale) in courses completed prior to the semester of student teaching; (2) have earned a grade no lower than a C in each of these prerequisite courses (Elementary: Education 320, 341, 420, and Psychology 308 and 312; Secondary: Education 303 and 341 and Psychology 307 or 309); (3) have planned a program of studies designed to earn the Collegiate Professional Certificate; (4) have personal qualities necessary for successful teaching as indicated by recommendations and a personal interview; and (5) have good health and no disqualifying physical or emotional handicaps. Evidence of fitness to teach from the standpoint of physical or mental health may be required from a qualified physician. The prospective student teacher is encouraged to have liability or tort insurance, which can be obtained from a commercial source or through membership in the Student Virginia Education

Association. Students must preregister for student teaching with the Director of Student Teaching before March 1 for the subsequent year.

Sample Program for Elementary Education Majors

Course	Hours
Freshman Year	
English 101,102	6
Math 110, 120	6
Laboratory Science	8
History 101-102	6
Geography	3
Speech	3
	32
Sophomore Year	
English (200 sequence)	6
History 201,202	6
Psychology 201	3
Economics	3
Physical Education 321	3
Physical Education activity	2
Electives	9
	32
Junior Year	
Course	Hours
English 430	3
Psychology 308	3
Psychology 312	3
Education 320	3
Education 341	3
Education 332	3
Education 336	6
Physical Education 308	3
Electives	6
	33
Senior Year	
Education 325	3
Education 330	3
Education 334	3
Education 414	3
Education 420	3
Education 405, 406N/E	6
Education 401N/E	6
Elective	3
	30

303. Instructional Materials and Methods-Secondary. [3-3-0]

Prerequisite: Speech 201; Education 341; Psychology 312, Psychology 307, or 309; 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. Prerequisite: Psychology 201. Taught both semesters. 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.

320. Developmental Reading. [3-3-0]

Prerequisite: Psychology 308. Taught both semesters. A basic course in the teaching of reading in the elementary schools. Emphasis is placed on reading readiness, word recognition skills, comprehension skills, study skills, skills needed for reading in the content areas, reading materials and methods currently being utilized in the elementary schools today, and evaluation. Field work is required.

325. Children's Literature. [3-3-0]

Prerequisite: English 101-102. Taught both semesters. A course dealing with the study of reading interests of children from the pre-school years through the elementary grades, criteria for evaluation, analysis and selection of children's books, the history of and the trends in publication of literature for children, the literature for children, and the use of children's literature in the classroom.

330. Mathematics in the Elementary School. [3-3-0]

Prerequisite: Math 110, 120 or equivalent. Taught both semesters. A course designed to emphasize appropriate content, methods, and instructional materials for teaching mathematics in the elementary school. Current trends in the teaching of mathematics and a critical analysis of recent curriculum projects will be included.

332. Science in the Elementary School. [3-3-0]

Prerequisite: Satisfactory completion of a two-semester laboratory science course. Taught both semesters. A course on the approach to science instruction for elementary children focused upon the methods, materials, and literature of biological and physical science. 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]

Prerequisite: Junior standing or consent of instructor. Taught both semesters. A survey of the aims and philosophy of art education in the elementary school with emphasis on child growth and development through art. Direct experience with the techniques, materials, and processes of art adapted to the needs of children from nursery school through grade seven with emphasis on appropriate motivational and teaching methods.

336. Music in the Elementary School. [3-3-0]

Prerequisite: Junior standing or consent of instructor. Taught both semesters.

A study of the principles, techniques, materials and methods used in music programs in the elementary grades with emphasis on an integrated approach to the elements of music including singing, use of instruments, listening, reading music, and rhythmic activities.

341. Cultural Foundations. [3-2-3]

Taught both semesters.

A course designed to aid the prospective teacher in attaining depth of perspective in the theory of education. The course deals with the development of educational traditions, philosophical constructs underlying American practices of education, and the analysis of contemporary problems in light of historical, sociological, and philosophical backgrounds. Directed observation in schools is required.

395. Elementary Topics.

Taught both semesters.

A variety of topical courses in education not included in the regular curriculum will be offered to satisfy changing needs and special interests of students. Offerings will vary from year to year. Credits will vary. A maximum of six credits may be offered toward graduation.

401. Supervised Teaching. [3-2-35]

Prerequisite: Consent of the instructor. Taught both semesters.

A supervised teaching experience offered as part of the professional semester for prospective teachers. Students may register for the following sections: N(Nursery-Kinderergarten), P(Primary), E(Elementary), S(Secondary). Students may register for three or six credits.

403. Methods of Teaching in the Secondary School.

[3-3-0]

Prerequisite: Education 303. Taught both semesters.

A study of the objectives, content, methods of instruction and research data in the respective teaching fields. The course deals with the problems of selecting and organizing content. Curriculum projects in each teaching field will be analyzed. In the fall semester students may register for E(English), M(Mathematics), and S(Science); in the spring semester they may register for L(Modern Languages) and H(History and Social Science).

405. Curriculum Organization and Instructional Procedures. [3-3-0]

Prerequisite: Psychology 308. Taught both semesters.

A study of the curriculum, methods, activities, media, and materials as tools for learning. Students may register for N(NK-3) or E(4-7).

406. Curriculum Organization and Instructional Procedures. [3-3-0]

Prerequisite: Psychology 308. Taught both semesters.

This course focuses on the basic concepts, skills, teaching techniques, and instructional materials with emphasis on the planning of appropriate learning experiences in the areas of (1) language arts and (2) social studies. Students may register for N(NK-3) or E(4-7).

414. Educational Measurements and Evaluation. [3-3-0]

Prerequisite: Consent of the instructor. Taught both semesters.

A course dealing with the identification and definition of instructional objectives in behavioral terms and the construction and selection of measuring and evaluative instruments to appraise these objectives and interpret the results in a meaningful way. Emphasis is placed on the construction of teacher-made tests and the interpretation of standardized tests. Students may register for S(Secondary), N(NK-3), E(4-7), P(Health and Physical education).

420. Diagnostic Reading. [3-3-0]

Prerequisite: Education 320. Taught both semesters.

A study of techniques for evaluation of reading progress, difficulties experienced by children in learning to read, diagnostic techniques for the classroom teacher, methods of differentiation of instruction, and corrective classroom methods. Field work required.

495. Advanced Topics.

Taught both semesters.

A variety of topical courses in education not included in the regular curriculum will be offered to satisfy changing needs and special interests of students. Offerings will vary from year to year. Credit will vary. A maximum of six credits may be offered toward graduation.

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.

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 Officers' Training Corps.

100. Military Science I. [2-1-2]

Taught both semesters.

Introduction to small group leadership and management techniques; map and aerial photograph interpretation with

emphasis on the principles of military terrain evaluation and land navigation; introduction to military operations and tactics.

101. American Military Development. [3-3-2]

Prerequisite: consent of the instructor. Taught both semesters.

An analysis of American Military History. The course begins with the Seven Years War and traces American military history to the present. Emphasis is given to the principles of war and to the development of tactics. Open.

201-202. Military Science II. [2-1-2]

Prerequisite: Military Science 100-101. Taught both semesters.

Introduction to small group leadership and management techniques; map and aerial photograph interpretation with emphasis on the principles of military terrain evaluation and land navigation; introduction to military operations and tactics.

300. American Civil-Military Relations. [3-3-2]

Taught fall semester.

Theory of civil-military relations and their impact on the contemporary world scene. Emphasis is placed on the extent to which these relations affect the military security of society. Case studies of historical and contemporary military leadership and management are examined.

301-302. Military Science III. [2-1-2] [2-3-2]

Taught both semesters.

A study of the management and control of small unit operations under field conditions with special emphasis given to offensive/defensive tactics, communications, and internal defense and development. Fundamentals of military instruction are taught with emphasis on practical application. Physical fitness and review of previous subjects are stressed in preparation for summer camp.

401-402. Military Science IV. [2-1-2] [2-1-2]

Taught both semesters.

Analysis of selected leadership and management problems involved in administration, military justice, and tactics; leadership and management problems in the military services.

Physical Education

The Department of Physical Education provides a wide variety of activities courses designed to fulfill the physical education distribution requirement as well as a program of study leading to state certification in Health and Physical Education. The Physical Education program is based on education through the psychomotor, cognitive, and affective domains of learning.

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 are developed through the medium of games and sports. Emphasis is placed on 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 lack motor fitness or must be restricted in their physical activity.

To receive state certification in Health and Physical Education, a student must take a minimum of thirty-six hours of course work in four content areas and must meet all professional education requirements: (1) *Scientific Background* (Biology 213, 214, *Anatomy and Physiology*; and Physical Education 409, *Kinesiology*); (2) *General Theory in Health, Physical Education, and Safety* (Physical Education 311 or 410, *Methods and Materials*; Physical Education 309, *History and Principles*; Education 414P, *Educational Measurements and Evaluation*; Physical Education 417, *Organization and Administration of Health, Physical Education, and Recreation*); (3) *Health and Safety Education* (Physical Education 321, *Foundations of Health*; Physical Education 415, *Athletic Injuries*); and (4) *Physical Education Activity and Theory* (seven activities courses).

For elementary certification the student must take Physical Education 308, *Health and Safety*; Physical Education 311, *Methods and Materials*; and Physical Education 318, *Movement Education and Activity*. For secondary certification the student must take Physical Education 410, *Methods and Materials*, and should include two courses necessary for a Driver Education endorsement: Physical Education 308, *Safety Education*, and Physical Education 317, *Driver Education and Safety*. Students who seek endorsement in elementary, secondary, and driver education must take a minimum of forty-five hours.

The following activities courses carry one credit and may be used to satisfy the physical education requirement. *Men's Physical Education*: 102, *Beginning Soccer*; 103, *Basketball*; 111, *Lacrosse*; and 112, *Advanced Soccer*. *Women's Physical Education*: 155, *Field Hockey and Basketball*; 156, *Softball and Volleyball*; and 158, *Basketball and Volleyball*. *Co-educational Activities*: 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, *Advanced Swimming*; 184, *Beginning Gymnastics*; 186, *Beginning Golf*; 188, *Advanced Golf*; 189, *Intermediate Gymnastics*; 193, *Advanced Tennis*; 194, *Advanced Tennis*; and 195, *Bowling*.

190. Recreation. [2-2-0]

Taught fall semester.

Review of the professional aspects of Physical Education: History, principles, aims, literature, professional organizations, trends, career responsibilities, and qualifications.

191. Personal and Community Health. [3-3-0]

Taught spring semester.

Designed to develop knowledge, understanding, and desirable attitudes related to personal and community health.

209. Theory and Fundamentals of Bowling, Archery, and Badminton. [3-2-2]

Taught fall semester, 1975-76.

Theory, practice, coaching methods, and officiating techniques.

211. Theory and Fundamentals of Soccer [M&F] and Wrestling [M] or Rhythmic [F]. [3-2-2]

Taught in 1975-76.

Theory, practice, coaching methods, and officiating techniques.

212. Theory and Fundamentals of Swimming and Gymnastics. [3-2-2]

Taught in 1975-76.

Theory, practice, coaching methods, and officiating.

213. Theory and Fundamentals of Field Hockey [F] or Football [M] and Basketball [M&F]. [3-2-2]

Taught in 1975-76.

Theory, practice, coaching methods, and officiating.

214. Theory and Fundamentals of Golf and Tennis. [3-2-2]

Taught spring semester, 1976-77.

Theory, practice, coaching methods, and officiating techniques.

216. Theory and Fundamentals of Conditioning and Track. [3-2-2]

Taught in 1976-77.

Theory, practice, coaching methods, and officiating techniques.

218. Theory and Fundamentals of Baseball [M] or Softball [F] and Volleyball [M&F]. [3-2-2]

Taught fall semester, 1975-76.

Theory, practice, coaching methods, and officiating techniques.

305. Camping and Recreation. [2-2-2]

Taught spring semester, 1976-77.

Development of skills and leadership in camping and recreational activities. Field trips and overnight camping will be a course requirement.

308. Safety Education and First Aid. [3-3-0]

Taught fall semester.

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 P.E. 317 for Driver Training certification in the State of Virginia. Standard Red Cross First Aid requirements are incorporated into this course.

309. History and Principles of Health, Physical Education and Recreation. [3-3-0]

Taught fall semester.

A study of the basic biological, psychological, and sociological contributions of physical education in various societies. The development of Physical Education and sport from primitive times to the present will be traced.

311. Methods and Materials in Elementary School Health and Physical Education. [3-3-0]

Taught in 1976-77.

Application and study of teaching methods and materials applicable to elementary school and early childhood. Organization of classes, selection of content, use of resources, and evaluation will be studied.

315. Sports Officiating. [2-2-2]

Taught fall semester, 1975-76.

Study and analysis of rules and officiating techniques. A minimum number of contact hours of practical experience in supervised officiating in the intramural, city recreation, and YMCA league is required.

317. Driver Education and Traffic Safety. [3-3-0]

Taught spring semester.

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. Rhythms, Movement Education and Activities on the Elementary Level. [3-2-2]

Taught spring semester.

Practice in the skills and physical education activities for the elementary school classroom teacher and physical education specialist. Included are analysis of movement, games, and activities suitable for the elementary school child.

321. Foundations of Health. [3-3-0]

Taught both semesters.

The role of the classroom teacher in the school health program. A survey of State Department publications and other resource material will be used. This course is suggested for those who seek Virginia State Certification as a teacher.

395. Topics in Health, Physical Education and Recreation. [3-3-0]

Prerequisite: Upper-level standing or consent of instructor. Taught spring semester. 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.

401P. Supervised Teaching in Physical Education. [3-2-35]

Prerequisite: Consent of instructor. Taught fall semester. A supervised teaching experience as part of the professional semester for prospective teachers. See Education 401.

409. Kinesiology. [3-3-0]

Prerequisite: Biology 101-102 and 213. Taught spring semester, 1975-76.

A study of the principles of human motion with an anatomical and mechanical analysis of individual skills in physical education activities.

410. Methods and Materials in Health, Physical Education on the Secondary Level. [3-3-0]

Taught in 1975-76.

Class procedures and review of methods and materials used in the health and physical education programs on the secondary level.

414P. Educational Measurements and Evaluation. [3-3-0]

Prerequisite: Consent of instructor. Taught both semesters.

See Education 414.

415. Care and Prevention of Athletic Injuries. [3-3-1]

The 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 Health and Physical Education Programs. [3-3-0]

Taught spring semester.

A study of the nature and function of administration as it relates to health and physical education programs. The course provides the student with specific tasks of administrators in physical education programs in schools and colleges.



Index

Page

Absence from Class	24	Course Offerings in the Summer	33
Absence from Final Examination	29	Creative Writing	51
Academic Deficiency	3	Credit from Other Institutions	32
Academic Warning	31	Dean's Academic Honor List	30
Accounting	91	Declaration of Major	32
Accreditation	9	Declaration of Minor	32
Add/Drop Period	28	Deferred Examination	30
Administration, Officers of	3	Deferred Payment	17
Admission of Foreign Students	14	Degrees, General Requirements	34
Admission to Classified Status	12	Associate	41, 95
Admission to Unclassified Status	13	Baccalaureate	34
Advanced Placement and Credit	15	Division Coordinators	4
Advising Program	28	Double Major	32
Aims and Purposes	9	Dropping Courses	28
Anthropology	66	Early Admission to the College	14
Associate in Arts Degree	41	Early Registration	28
Athletic Activities	24	Economics	92
Auditing a Course	16, 28	Education	99
Baccalaureate, Second	32	Employment, Student	19
Bachelor of Arts Degree	34	English	44
Bachelor of Science Degree	34	Evaluation of Transfer Credit	32
Bachelor of Science Degree in Business		Examinations	29
Administration	41	Expenses	17
Bachelor of Science Degree in Governmental		Extension Courses, Credit for	32
Administration	37	Faculty	3
Bachelor of Science Degree in Management		Fees and Expenses	17
Information Science	35	Film Classics Club	27
Basic Studies	99	Finance	91
Biology and environmental Science	78	Financial Assistance	19
Board of Visitors	3	Fine Arts	47
Bridge and Tunnel Tickets	19	Foreign Languages	
Buildings	10	Classical	43
Business and Economics	90	Modern	56
Calendar	1	Foreign Students	14
Certification of Teachers	100	French	57
Challenging a Course	33	Geography	85
Changes in Registration	28	German	59
Chemistry	81	Governmental Administration	37
Cinema	51	Grade Point Average	30
Classical Studies	43	History of the College	9
Classification of Students	32	History	51
College Buildings	10	Honor Council	24
College-Level Examination Program	16	Humanities	56
Communications	99	Incomplete	29
Computer Science	83	Journalism	99
Continuance in College	30	Latin	10
Continuing Education Unit	27	Latin	43
Continuing Studies	27	Library	10
Correspondence Courses, Credit for	32	Major, Declaration of	33
Counseling Services	26	Management	93
Course Numbering System	42	Management Information Science	35
Courses by Newspaper	33	Marketing	93
Courses of Instruction	43	Mathematics	86
Course Offerings in the Evenings	33	Military Science (Army)	102

106/Index

Minor, Declaration of	32	Serviceperson's College	15
Music	48	Sociology	73
Normal Academic Load	28	Spanish	60
Numbering of Courses	43	Special Programs	27
Officers of the College	3	Speech	47
Out-of-State Students Tuition Fee	17	Student Activities	24
Overload Schedule	28	Student Employment	22
Parking Regulations	24	Student Government	23
Part-time Students	28	Student Organizations	24
Pass-Fail Option	30	Student Personnel Services	26
Philosophy	63	Student Publications	26
Physics	87	Students, Out-of-State	17
Placement Service	28	Student Responsibilities	24
Placement Tests	16, 23	Student Rights	24
Political Science	66	Summer Session	16, 32
Probation, Academic	31	Suspension, Academic	32
Psychology	70	Teacher Certification	100
Readmission	32	Theatre Arts	47
Refunds	18	Transcripts	19, 33
Registration	28	Transfer Students	12, 31
Registration, Changes in	28	Tuition	17
Reinstatement after Suspension	32	University Center Lectures	27
Repeated Courses	30	Unclassified Students	13
Residence Requirements, State	18	Veterans	16
Retailing	93	Withdrawal from College	29
Senior Citizens	15		

107/Index

Divisions	Departments	Majors* and Minors	Degrees
Arts and Letters	Classical Studies, English, Fine and Performing Arts, History, Humanities, Modern Foreign Languages and Literatures, and Philosophy	English*, Fine Arts, French*, German*, History*, Music, Philosophy*, Spanish*, Theatre Arts*	Bachelor of Arts
Social and Behavioral Sciences	Anthropology, Political Science, Psychology, and Sociology	Governmental Administration* (Corrections, Law Enforcement, Urban Management, Urban Planning), Political Science*, Psychology*, and Sociology*	Bachelor of Arts Bachelor of Science
Natural and Quantitative Sciences	Biology and Environmental Science, Chemistry, Computer Science, Geography, Mathematics, and Physics	Biology and Environmental Science*, Chemistry*, Geography, Management, Information Science*, Mathematics	Bachelor of Arts Bachelor of Science
Business and Economics	Accounting and Finance; Economics; and Management, Marketing, and Retailing	Business Administration* (Accounting, Economics, Finance, Management, Marketing, and Retailing)	Associate in Arts in Retailing Bachelor of Science
Education and Communications	Basic Studies, Communications, Education, Military Science (Army), and Physical Education	Elementary Education* (Early Childhood, Primary, and Upper Elementary), and Physical Education	Bachelor of Arts