

THE COLLEGE OF
WILLIAM AND MARY
IN
VIRGINIA



TWO HUNDRED AND SEVENTY-FIRST YEAR

1963-1964

THE COVER: Shown on the cover is The Mace presented to the College by its alumni and students in 1923. The Mace is of silver, four feet long and contains twelve sections each bearing the following symbols and names pertinent to the history and singularity of the College: (1) An American Eagle, (2) A Sphere symbolizing unity, (3) The Coat of Arms granted to the College by the College of Heralds, May 14, 1694, (4) Arms of the Chancellors, (5) The Seven Seals of Colonial Virginia, (6) Three College Medals, including Phi Beta Kappa, 1776, (7) Names of twenty-eight noted alumni, (8) The Earth, (9) The Colonial Governors of Virginia, (10) Indian Head emblems, (11 and 12) The Staff upon the upper part of which are the names of the Presidents of the College.

FRONTISPIECE: A tablet in the Arcade of the Sir Christopher Wren Building, and The Sir Christopher Wren Building, the oldest academic structure in the United States.

Bulletin of The College of William and Mary—Catalogue Issue

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April, 1964

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PRIORITIES OF THE COLLEGE OF WILLIAM AND MARY.

Chartered February 8, 1693, by King William and Queen Mary
Main building designed by Sir Christopher Wren.

FIRST College in the United States in its antecedents, which go back to the College proposed at Henrico (1619). Second to Harvard University in actual operation.

FIRST American College to receive its charter from the Crown under the Seal of the Privy Council, 1693. Hence it was known as "their Majesties Royal College of William and Mary."

FIRST and ONLY American College to receive a Coat-of-Arms from the College of Heraldry, 1694.

FIRST College in the United States to have a full faculty, consisting of a President, six Professors, usher, and writing master, 1729.

FIRST College to confer medallic prizes: the gold medals donated by Lord Botetourt in 1771.

FIRST College to establish an inter-collegiate fraternity, the Phi Beta Kappa, December 5, 1776.

FIRST College to have the Elective System of study, 1779.

FIRST College to have the Honor System, 1779.

FIRST College to become a University, 1779.

FIRST College to have a school of Modern Languages, 1779.

FIRST College to have a school of Municipal and Constitutional Law, 1779.

FIRST College to teach Political Economy, 1784.

FIRST College to have a school of Modern History, 1803.





The College of William and Mary in Virginia

TWO HUNDRED AND SEVENTY-FIRST YEAR
1963-1964



Announcements, Session 1964-1965



WILLIAMSBURG, VIRGINIA
1964

CORRESPONDENCE DIRECTORY

To facilitate prompt attention, inquiries should be directed to the following:

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J. Wilfred Lambert, *Registrar and Dean of Students*

SUMMER SCHOOL AND EXTENSION

Donald J. Herrmann, *Director of the Summer Session and of Extension*

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COLLEGE CALENDAR

1964-1965

1964

FIRST SEMESTER

<i>September 13-19</i>	Orientation Period (Sunday-Saturday)
<i>September 17</i>	Freshman Registration (Thursday)
<i>September 18</i>	Registration of All Other Students (Friday)
<i>September 21</i>	Beginning of Classes: 8:00 A. M. (Monday)
<i>September 25</i>	Opening Convocation (Friday)
<i>September 28</i>	Last Day for Course or Section Changes (Monday)
<i>October 17</i>	Homecoming Day, a Holiday (Saturday)
<i>November 11</i>	Mid-Semester Reports Filed with Registrar: 9:00 A. M. (Wednesday)
<i>November 25</i>	Beginning of Thanksgiving Holiday: 5:00 P. M. (Wednesday)
<i>November 30</i>	End of Thanksgiving Holiday: 8:00 A. M. (Monday)
<i>December 18</i>	Beginning of Christmas Recess: 5:00 P. M. (Friday)

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<i>January 4</i>	End of Christmas Recess: 8:00 A. M. (Monday)
<i>January 15</i>	End of Classes: 5:00 P. M. (Friday)
<i>January 16</i>	Pre-examination Period (Saturday)
<i>January 18-29</i>	Mid-Year Examinations (Monday-Friday)

SECOND SEMESTER

<i>February 4</i>	Registration Changes (Thursday)
<i>February 5</i>	Beginning of Classes: 8:00 A. M. (Friday)
<i>February 12</i>	Last Day for Course or Section Changes (Friday)
<i>February 13</i>	Charter Day Convocation: 11:00 A. M. (Saturday)
<i>March 25</i>	Mid-Semester Reports Filed with Registrar: 9:00 A. M. (Thursday)
<i>March 26</i>	Beginning of Spring Recess: 5:00 P. M. (Friday)
<i>April 5</i>	End of Spring Recess: 8:00 A. M. (Monday)
<i>April 29</i>	Spring Convocation: 11:00 A. M. (Thursday)
<i>May 18</i>	End of Classes: 5:00 P. M. (Tuesday)

College Calendar

May 19-20 Pre-examination Period (Wednesday-Thursday)
May 21-June 2 Final Examination Period (Friday-Wednesday)
June 6 Baccalaureate and Commencement Day (Sunday)

SUMMER SESSION

June 14 Beginning of First Session (Monday)
July 23 End of First Session (Friday)
July 26 Beginning of Post Session (Monday)
August 13 End of Post Session (Friday)

1964

JANUARY	FEBRUARY	MARCH	APRIL
S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S
1 2 3 4	1	1 2 3 4 5 6 7	1 2 3 4
5 6 7 8 9 10 11	2 3 4 5 6 7 8	8 9 10 11 12 13 14	5 6 7 8 9 10 11
12 13 14 15 16 17 18	9 10 11 12 13 14 15	15 16 17 18 19 20 21	12 13 14 15 16 17 18
19 20 21 22 23 24 25	16 17 18 19 20 21 22	22 23 24 25 26 27 28	19 20 21 22 23 24 25
26 27 28 29 30 31	23 24 25 26 27 28 29	29 30 31	26 27 28 29 30
MAY	JUNE	JULY	AUGUST
1 2	1 2 3 4 5 6	1 2 3 4	1
3 4 5 6 7 8 9	7 8 9 10 11 12 13	5 6 7 8 9 10 11	2 3 4 5 6 7 8
10 11 12 13 14 15 16	14 15 16 17 18 19 20	12 13 14 15 16 17 18	9 10 11 12 13 14 15
17 18 19 20 21 22 23	21 22 23 24 25 26 27	19 20 21 22 23 24 25	16 17 18 19 20 21 22
24 25 26 27 28 29 30	28 29 30	26 27 28 29 30 31	23 24 25 26 27 28 29
31			30 31
SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1 2 3 4 5	1 2 3	1 2 3 4 5 6 7	1 2 3 4 5
6 7 8 9 10 11 12	4 5 6 7 8 9 10	8 9 10 11 12 13 14	6 7 8 9 10 11 12
13 14 15 16 17 18 19	11 12 13 14 15 16 17	15 16 17 18 19 20 21	13 14 15 16 17 18 19
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1965

JANUARY	FEBRUARY	MARCH	APRIL
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31			
MAY	JUNE	JULY	AUGUST
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23 24 25 26 27 28 29	27 28 29 30	25 26 27 28 29 30 31	29 30 31
30 31			
SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1 2 3 4	1 2	1 2 3 4 5 6	1 2 3 4
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19 20 21 22 23 24 25	17 18 19 20 21 22 23	21 22 23 24 25 26 27	19 20 21 22 23 24 25
26 27 28 29 30	24 25 26 27 28 29 30	28 29 30	26 27 28 29 30 31
	31		

The Presidents of The College of William and Mary in Virginia

James Blair, 1693-1743

William Dawson, 1743-1752

William Stith, 1752-1755

Thomas Dawson, 1755-1760

William Yates, 1761-1764

James Horrocks, 1764-1771

John Camm, 1771-1777

James Madison, 1777-1812

John Bracken, 1812-1814

*John Augustine Smith, 1814-
1826*

William H. Wilmer, 1826-1827

Adam Empie, 1827-1836

*Thomas Roderick Dew, 1836-
1846*

Robert Saunders, 1847-1848

Benjamin S. Ewell, 1848-1849

John Johns, 1849-1854

Benjamin S. Ewell, 1854-1888

Lyon G. Tyler, 1888-1919

*Julian A. C. Chandler, 1919-
1934*

John Stewart Bryan, 1934-1942

John Edwin Pomfret, 1942-1951

*Alvin Duke Chandler, 1951-
1960*

Davis Young Paschall, 1960-

The Chancellors of The College of William and Mary in Virginia

Henry Compton, Bishop of London, 1693-1700

Thomas Tenison, Archbishop of Canterbury, 1700-1707

Henry Compton, Bishop of London, 1707-1713

John Robinson, Bishop of London, 1714-1721

William Wake, Archbishop of Canterbury, 1721-1729

Edmund Gibson, Bishop of London, 1729-1736

William Wake, Archbishop of Canterbury, 1736-1737

Edmund Gibson, Bishop of London, 1737-1748

Thomas Sherlock, Bishop of London, 1749-1761

Thomas Hayter, Bishop of London, 1762

Charles Wyndham, Earl of Egremont, 1762-1763

Philip Yorke, Earl of Hardwicke, 1764

Richard Terrick, Bishop of London, 1764-1776

George Washington, First President of the United States, 1788-1799

John Tyler, Tenth President of the United States, 1859-1862

Hugh Blair Grigsby, Historian, 1871-1881

*John Stewart Bryan, Twentieth President of the
College of William and Mary, 1942-1944*

Colgate W. Darden, Jr., Governor of Virginia, 1946-1947

*Alvin Duke Chandler, Twenty-second President of the
College of William and Mary, 1962-*

HISTORY OF THE COLLEGE

A FEW YEARS after the founding of Jamestown, a movement was started in England and in Virginia to establish a college, and its construction actually was begun at the city of Henrico on the James River, ten miles below the present city of Richmond. The Indian massacre of 1622 disrupted these plans, but the idea persisted. In 1661, the General Assembly of Virginia provided for the establishment of a "Colledge," but the plan was not carried out; it was not until 1693 that the College of William and Mary in Virginia was chartered by the joint sovereigns whose names it bears. The Bishop of London was named its first chancellor, and Reverend James Blair became the first president, occupying this office until his death fifty years later. In 1695, while Jamestown was still the capital of Virginia, construction of the new college was begun at Middle Plantation, located midway between the James and York rivers. The Wren Building, the oldest academic building in continuous use in the United States, was constructed from plans supplied by Sir Christopher Wren, and for many years it provided living quarters and classroom facilities for the entire college. From 1700 to 1705, it was the meeting place for the General Assembly of Virginia. In 1699, Middle Plantation became Williamsburg and the capital of Virginia.

Holding a royal charter, with arms granted by the College of Heralds, the College of William and Mary enjoyed the benefit of royal favor and of the deep interest of the General Assembly of Virginia, which granted it the income from certain import and export duties. Until the American Revolution, it was, perhaps, the wealthiest college in America. While the charter provided for a president and six masters, or professors, it was not until 1729 that all these professorships were established. The chairs were: Divinity, Philosophy, Oriental Languages, Mathematics, Grammar School, and the Indian School. The Indian School, endowed from a large estate which Robert Boyle, the eminent English physicist and formulator of "Boyle's Law," left for "pious and religious uses," was housed in the Brafferton, built in 1723, and named for a manor in Yorkshire, from which most of its revenue was derived. The Indian School languished, however, and failed to survive the Revolution. In 1705, the Wren Building was de-

stroyed by fire. It was rebuilt on the original foundation and completed about 1716. In 1732, the chapel wing of the Wren Building was opened, and the foundation of the President's House was laid. In 1776, Phi Beta Kappa, the first Greek-letter fraternity in an American college, was founded by a group of students in the College. In 1779, the first Honor System was instituted, and in the same year came the sharpest break with academic tradition. Under the influence of Thomas Jefferson, then Governor of Virginia, the curriculum was severely revised: a school of law was established, the first school of law in America and the second in the English-speaking world; the old departments were replaced by professorships of Anatomy and Medicine, Natural Philosophy and Mathematics, Moral Philosophy and Fine Arts, and Modern Languages.

When the Colonies resisted the policies of the British Crown, William and Mary, although wealthy and under royal patronage, chose to risk the loss of material substance for principle. Taking an active part in the events accompanying the Revolution and the founding of the Republic, the College supplied such leaders as Thomas Jefferson, James Monroe, Peyton Randolph, Richard Bland, John Marshall, and Benjamin Harrison to the cause of Independence. Although George Washington never attended William and Mary, he received his surveyor's commission from the College, and served as its Chancellor from 1789 until his death.

In 1781, during the memorable Yorktown campaign, academic life was interrupted temporarily, the buildings being occupied, in turn, by the army of Cornwallis and by our French allies. The President's House, built in 1732, and occupied by every President of the College, was accidentally burned, in part, by the French troops. It was later restored by Louis XVI.

Following the war, William and Mary was seriously impoverished by the loss of its invested funds and of the income from duties granted by the General Assembly of Virginia. Under the able administration of Bishop James Madison, cousin to President James Madison, the College recovered rapidly, and during the presidency of Thomas Roderick Dew (1836-46) reached its peak enrollment until comparatively recent times. In 1854, Benjamin Stoddert Ewell became President. On the 166th anniversary of the founding, the interior of the Wren Building was burned a

second time; some early documents, including the original charter, all of the library, and the chemical laboratory, were destroyed.

With the advent of war in 1861, the College closed, and the President, faculty, and student body entered the Confederate service. Again the academic halls echoed to the tramp of soldiers, the buildings being occupied successively by both the Confederate and Union armies. In 1862, the Wren Building was burned a third time when Union troops, acting without orders, set fire to the structure. With the return of peace in 1865, the College was reopened by President Ewell. With resources gone, students and faculty scattered, the main building with the library burned, William and Mary was an example of the devastation of war. Heroically, Colonel Ewell fought an apparently losing fight, and although somewhat rehabilitated, the College was forced, in 1881, to suspend operations for lack of funds. The charter was kept alive by President Ewell, who rang the College bell to mark the opening of every term, though only a handful of students remained for gratuitous instruction.

In 1888, with a State grant of \$10,000 the College revived under the presidency of Lyon G. Tyler, son of John Tyler, former President of the United States. In 1906, it became a State institution, and its control was placed under a Board of Visitors appointed by the Governor of Virginia. It became coeducational in 1918. During the administration of Julian Alvin Carroll Chandler (1919-1934), an alumnus, the facilities were increased tenfold, the student body growing from 130 to 1,300, with a faculty of nearly one hundred. The College also expanded to include a Division in Richmond (1925), now the Richmond Professional Institute, and a Norfolk Division (1930).

Between 1928 and 1932 the three earliest buildings, the Wren Building, the Brafferton, and the President's House, were restored to their original appearance through the generosity of John D. Rockefeller, Jr.

President Chandler was succeeded, in 1934, by John Stewart Bryan as the twentieth President, who continued the expansion of the facilities of the College. Shortly after the United States entered the Second World War, Mr. Bryan retired, to become the fourth American chancellor. He was followed by President John Edwin Pomfret, who guided William and Mary through the grim days of the war-years. For a period the ancient walls resounded to

the marching feet of an Army Specialized Training Program unit. A school for the training of Naval Chaplains was established on the campus and continued to the end of the war. The College experienced the general abnormal expansion following 1946, when the returning veterans increased the enrollment, for a time, to slightly over the 2,000 mark. In 1943, the Institute of Early American History and Culture was formed by the union of the historical resources of the College and Colonial Williamsburg, Inc. This organization of scholars is devoted to study and research in Colonial American history; its purpose is "to promote sound interpretation of the American heritage on all levels."

President Pomfret was followed by Vice Admiral Alvin Duke Chandler, who became the twenty-second President in October, 1951. In September, 1954, the Department of Jurisprudence became the Marshall-Wythe School of Law.

The General Assembly of Virginia at the 1960 Session established the system, The Colleges of William and Mary, and provided for an expanded Board of Visitors and the appointment of a Chancellor. Under this new system the College retained its ancient and official name, *The College of William and Mary in Virginia*. The other colleges, separate but integral parts of the system were: The Richmond Professional Institute, Richmond, The Norfolk College of William and Mary, Norfolk, Christopher Newport College, Newport News, and Richard Bland College in Southside (Petersburg area), the latter two institutions being junior colleges.

Alvin Duke Chandler, who was appointed Chancellor of the new system, was succeeded on August 16, 1960, by Davis Y. Paschall who became the twenty-third President of the College. In 1961, the Department of Education became the School of Education and the Department of Marine Science became the School of Marine Science.

Legislation enacted at the 1962 session of the General Assembly disestablished the system, The Colleges of William and Mary, and reconstituted the four-year colleges, The Richmond Professional Institute and the Norfolk College of William and Mary, as independent institutions under control of separate boards. It was further provided that the two-year colleges at Newport News and Petersburg be supervised by a coordinator under the jurisdiction of the Board of Visitors, and that the ancient

College of William and Mary be continued independently and encouraged to strengthen its program in the liberal arts and sciences, and develop the advanced professional and graduate programs appropriate to its tradition and competence.

After passing through three fires, the War of the Revolution, the War of 1861, and the economic chaos that followed both, William and Mary has survived, and today, in the unique setting of Williamsburg, with the cultural heritage of the past, and a clear academic vision for the future, it serves Virginia and the nation as it originally served Virginia and the Crown.

So intimately associated is the name of William and Mary with the names of famous Americans, that its history forms an important part of the history of the nation. Among the distinguished William and Mary names in the years subsequent to the great flowering of the eighteenth century are those of John Tyler, President of the United States; John Randolph of Roanoke; Philip Pendleton Barbour; William T. Barry; Alexander H. H. Stuart; William Cabell Rives; John T. Crittenden, author of the Crittenden Compromise; Lieutenant General Winfield Scott, hero of the Mexican War and Commander of the Army of the United States in 1861; Edmund Ruffin, famous Southern agriculturist; James M. Mason of "Mason and Slidell" fame; William B. Taliaferro, Major General, C. S. A.; William Barton Rogers, founder of the Massachusetts Institute of Technology; James Branch Cabell; Admiral Cary T. Grayson, and Admiral John L. Hall, Jr. The roll of fame of William and Mary includes the first president and fifteen members of the Continental Congress, four signers of the Declaration of Independence, three presidents of the United States, one chief justice and three associate justices of the Supreme Court, thirteen Cabinet members, twenty-nine senators, three speakers and fifty-five members of the House of Representatives, eighteen foreign ministers, one lieutenant general, twenty-one governors of Virginia, twenty-two judges of the Virginia Supreme Court of Appeals, besides many others distinguished in civil and military life, in letters, science, education, and the church.

THE HONOR SYSTEM

History

Among the most treasured traditions of the College of William and Mary is the student-administered plan of discipline known as the Honor System. The essence of the Honor System is individual responsibility in all matters involving the student's honor, and the System assumes that every student is concerned with the strict observance of the principles of honorable conduct which he upon matriculation pledges to uphold, for his own sake, for the sake of his fellow students, and for the sake of the College.

The evolution of the Honor System over the years to its present form is best understood when considered against the background of changes in the character of the College itself. The College originally combined the higher school with a grammar school and served almost exclusively the sons of Gentlemen of the planter aristocracy, who took especial pride in their reputation as men of honor. The students formed a small, closely knit group, at times numbering fewer than a hundred; and a violation of the College code of discipline was punished by ostracism. Because of the existence of this gentlemen's code of honor that characterized life and conduct at the College from its beginnings, it is difficult to pinpoint a specific date marking the beginning of the Honor System as a system. It was assuredly emerging in one form or another prior to 1779, when the College was reorganized under Jefferson's leadership, the year often claimed for its official establishment; and minor details of administration have changed from time to time to meet contemporary needs and conditions.

As the College has grown in size and complexity, the student body has become less and less the homogenous group which characterized the earlier years, particularly to the latter part of the nineteenth century. The College no longer serves exclusively young men from restricted or provincial areas of social and economic life, but is a co-educational institution serving several thousand students from all parts of the United States and from foreign countries. It is accepted that honor and responsibility are not absolute, intrinsic human values, but are acquired in a specific environment and are, therefore, relative to that environment.

As a relative value, honor means many different things to many different people. Today, for immediate purposes within the College community, its applications are restricted to four specific areas—lying, stealing, cheating, and failure to report an infraction of which one has firsthand knowledge. This restriction of definition enables the theoretic concept of honor to be applied on a practical level within a heterogeneous body.

Meaning

As numerous bulletins state, the discipline of the College was entirely “in the hands of the President and faculty” until the twentieth century, when student government was instituted at William and Mary. Today the Honor System is student administered through elected councils.

Whereas the present administration of the Honor System by the students through elected councils evolved during the 1920's, the spirit and essence of the Honor System have historically threaded the years undisturbed and, guarded jealously, have remained intact.

OFFICERS OF THE COLLEGE

Board of Visitors

C. STERLING HUTCHESON
J. B. WOODWARD, JR.
W. BROOKS GEORGE

Rector
Vice-Rector
Secretary

To MARCH 7, 1964

W. FRED DUCKWORTH	Norfolk, Virginia
W. BROOKS GEORGE	Richmond, Virginia
JOHN P. HARPER	Norfolk, Virginia
H. LESTER HOOKER	Richmond, Virginia
CHARLES K. HUTCHENS	Newport News, Virginia
T. EDWARD TEMPLE	Danville, Virginia
H. HUDNALL WARE, JR.	Richmond, Virginia

To MARCH 7, 1966

M. CARL ANDREWS	Roanoke, Virginia
FRANK ERNST	Petersburg, Virginia
C. STERLING HUTCHESON	Boydton, Virginia
WALTER G. MASON	Lynchburg, Virginia
WALTER S. ROBERTSON	Richmond, Virginia
J. ASA SHIELD	Richmond, Virginia
J. B. WOODWARD, JR.	Newport News, Virginia

The State Superintendent of Public Instruction, Ex-Officio
WOODROW W. WILKERSON, Richmond, Virginia

Standing Committees of the Board of Visitors

EXECUTIVE: JUDGE HUTCHESON, *Chairman*; MR. WOODWARD;
MAYOR DUCKWORTH; MR. MASON; MR. GEORGE; JUDGE
HOOKER.

BUILDINGS AND GROUNDS: DR. SHIELD, *Chairman*; MAYOR
DUCKWORTH; MR. GEORGE; MR. HUTCHENS; MR. MASON.

EDUCATION: JUDGE HOOKER, *Chairman*; MR. ANDREWS; MR.
ROBERTSON; MR. TEMPLE; DR. WARE.

FINANCE: MR. TEMPLE, *Chairman*; MR. ERNST; MR. GEORGE;
MR. HARPER; MR. MASON.

HONORARY DEGREES: JUDGE HUTCHESON, *Chairman*; MR. WOOD-
WARD; MR. ANDREWS; JUDGE HOOKER; DR. SHIELD; DR.
WARE; MR. ROBERTSON.

DEVELOPMENT: MR. ROBERTSON, *Chairman*; MR. WOODWARD;
MR. GEORGE; MR. MASON; DR. SHIELD.

TWO-YEAR COLLEGES: MR. ERNST, *Chairman*; MR. HARPER;
DR. WARE; MR. WOODWARD; MR. HUTCHENS.

Office of the President

DAVIS Y. PASCHALL	<i>President</i>
JOHN H. WILLIS	<i>Administrative Assistant</i>
WILLIAM F. SWINDLER	<i>Director of Development</i>
ROBERT T. ENGLISH, JR.	<i>Bursar</i>

Educational Administration

W. MELVILLE JONES	<i>Dean of the Faculty</i>
ROBERT A. JOHNSTON	<i>Associate Dean of the Faculty</i>
DONALD J. HERRMANN	<i>Director of Extension, Summer Session and Coordinator of Two-Year Colleges</i>
JOHN S. QUINN	<i>Director of the Evening Session</i>

Marshall-Wythe School of Law

JOSEPH CURTIS	<i>Dean</i>
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School of Education

HOWARD K. HOLLAND	<i>Dean</i>
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School of Marine Science

WILLIAM J. HARGIS, JR.	<i>Dean</i>
------------------------	-------------

Business and Plant Administration

ROBERT T. ENGLISH, JR.	<i>Bursar</i>
VERNON L. NUNN	<i>Treasurer-Auditor</i>

Officers of the College

ERVIN D. FARMER	<i>Superintendent of Buildings and Grounds</i>
CHARLES E. CHANDLER	<i>Director of Purchase and Stores</i>
DENNIS K. COGLE	<i>Personnel Supervisor</i>

Admissions

ROBERT P. HUNT	<i>Dean of Admissions</i>
EDWARD E. JONES	<i>Assistant Dean of Admissions</i>

Student Aid and Placement

JOHN C. BRIGHT	<i>Director</i>
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Student Personnel Administration

J. WILFRED LAMBERT	<i>Dean of Students and Registrar</i>
CARSON H. BARNES, JR.	<i>Dean of Men</i>
BIRDENA E. DONALDSON	<i>Dean of Women</i>
SANDRA SNIDOW	<i>Assistant Dean of Women</i>
ROBERT E. DEBORD, M.D.	<i>College Physician</i>
ELIZABETH R. STEARNS	<i>Assistant Registrar</i>

Library

JAMES A. SERVIES	<i>Librarian</i>
EARL GREGG SWEM	<i>Librarian Emeritus</i>

Development and Public Information

WILLIAM F. SWINDLER	<i>Director of Development and Public Information</i>
J. P. JAMES, JR.	<i>Editor, News Bureau</i>
JAMES S. KELLY	<i>Alumni Secretary</i>

Athletics

H. LESTER HOOKER, JR.	<i>Director of Athletics</i>
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INSTRUCTIONAL STAFF¹

DAVIS Y. PASCHALL (1960, 1960), *President of the College*. A.B., M.A., College of William and Mary; Ed.D., University of Virginia.

EMILY ELEANOR CALKINS (1953, 1927), *Associate Professor of Mathematics, Emeritus*. A.B., College of William and Mary; M.A., University of Michigan.

JOSEPH M. CORMACK (1946, 1946), *Professor of Law, Emeritus*. A.B., Northwestern University; LL.B. and J.S.D., Yale University.

ALBERT PETTIGREW ELLIOTT (1957, 1957), *Lecturer in English, Emeritus*. A.B. and M.A., College of William and Mary; M.A., University of North Carolina; Ph.D., University of Pennsylvania.

WAYNE FULTON GIBBS (1931, 1926), *Professor of Accountancy, Emeritus*. B.S. and M.S., University of Illinois; C.P.A.

ANDREW C. HAIGH (1958, 1944), *Professor of Music, Emeritus*. A.B., University of Michigan; M.A. and Ph.D., Harvard University.

ALTHEA HUNT (1955, 1926), *Professor of Fine Arts, Emeritus*. A.B., Alleghany College; M.A., Radcliffe College; Litt.D., Alleghany College.

JEAN STEWART MAJOR (1928, 1928), *Associate Professor of Home Economics, Emeritus*. B.S. and M.A., Columbia University.

RICHARD LEE MORTON (1921, 1919), *Chancellor Professor of History, Emeritus*. A.B., Hampden-Sydney College; M.A., University of Virginia and Harvard University; Ph.D., University of Virginia; Litt.D., Hampden-Sydney College.

¹The first date indicates the year when the present rank was attained; the second date the year when the individual was first appointed to the instructional staff. A third date indicates the year of reappointment. All changes in the Faculty that occurred in the session 1963-1964 through February 1, 1964, are included in this list.

- SHIRLEY DONALD SOUTHWORTH (1928, 1927), *Professor of Economics, Emeritus*. A.B., M.A., and Ph.D., Princeton University.
- EARL GREGG SWEM (1920, 1920), *Librarian, Emeritus*. A.B. and M.A., Lafayette College; Litt.D., Hampden-Sydney College; Litt.D., Lafayette College; LL.D., College of William and Mary.
- ALBION GUILFORD TAYLOR (1928, 1927), *Chancellor Professor of Political Economy, Emeritus*. A.B., Des Moines University; M.A., University of Nebraska; Ph.D., University of Illinois.
- ANTHONY PELZER WAGENER (1929, 1929), *Chancellor Professor of Ancient Languages, Emeritus*. A.B., College of Charleston; Ph.D., The Johns Hopkins University.
- MARGARET WINDER (1959, 1948, 1959), *Assistant Professor of Education, Emeritus*. B.S., Madison College; M.A., College of William and Mary.
-
- WILLIAM W. ABBOT (1963, 1953, 1963), *Professor of History*. A.B., University of Georgia; M.A. and Ph.D., Duke University.
- KHAMIS ABDUL-MAGID (1962, 1962), *Assistant Professor of Economics*. A.B., American University (Cairo); M.A., University of Texas; Ph.D., University of Pennsylvania.
- JOSEPH S. AGEE (1958, 1958), *Lecturer in Physical Education*. B.S. and M.Ed., College of William and Mary.
- NATHAN ALTSHULER (1963, 1960), *Associate Professor of Sociology and Anthropology*. A.B., University of Michigan; Ph.D., Harvard University.
- CHARLES HARPER ANDERSON (1957, 1946), *Lecturer in Law*. A.B. and B.C.L., College of William and Mary; LL.M., University of Virginia.
- JAY D. ANDREWS (1959, 1946), *Professor of Marine Science*. B.S., Kansas State College; M.Ph. and Ph.D., University of Wisconsin.
- H. JOSEPH ANGELL (1962, 1962), *Instructor in English*. A.B. and M.A., University of Connecticut.

- ALFRED R. ARMSTRONG (1961, 1933), *Professor of Chemistry*. B.S. and M.A., College of William and Mary; Ph.D., University of Virginia.
- HOWARD H. ASHBURY (1960, 1960), *Lecturer in Psychology*, B.S. and M.D., University of Virginia.
- THOMAS CONNER ATKESON (1954, 1954), *Professor of Taxation*. B.S., M.S. and Ph.D., Georgetown University.
- HARRY E. ATKINSON (1962, 1962), *Lecturer in the Marshall-Wythe School of Law*. George Washington University and F. B. I. National Academy; Law Certificate, Marshall-Wythe School of Law.
- ARTHUR D. AUSTIN (1963, 1963), *Acting Assistant Professor of Business Administration*. B.S., University of Virginia; LL.B., Tulane University.
- ROBERT SYDNOR BAILEY (1959, 1951), *Assistant Professor of Marine Science*. A.B., Randolph-Macon College; M.A., College of William and Mary.
- JOHN T. BALDWIN, JR. (1946, 1937, 1946), *Professor of Biology*. A.B., College of William and Mary; Ph.D., University of Virginia.
- DONALD L. BALL (1960, 1960), *Instructor in English*. A.B., University of Richmond; M.A., University of Delaware.
- MARTHA ELIZABETH BARKSDALE (1936, 1921), *Associate Professor of Physical Education*. O.D., Gymnastic Peoples College, Ollerup, Denmark; A.B. and M.A., College of William and Mary.
- MILDRED BARRETT (1963, 1959), *Assistant Professor of Physical Education for Women*. B.S., Georgia State College for Women; M.A., University of Maryland.
- HERTHA ANNA BERRY (1963, 1960), *Assistant Professor of Modern Languages*. M.A., Harvard University; Ph.D., University of Vienna.
- KENNETH F. BICK (1961, 1961), *Associate Professor of Geology*. B.S., M.S. and Ph.D., Yale University.
- MARY ANN BIETER (1963, 1963), *Instructor in Modern Languages*. A.B., The College of St. Catherine; M.A., University of Minnesota.

- ROBERT E. L. BLACK (1959, 1959), *Associate Professor of Biology and Marine Science*. A.B. and M.A., Northeast Oklahoma A&M; Ph.D., University of Washington.
- GRACE J. BLANK (1947, 1931), *Associate Professor of Biology*. A.B., Maryville College; M.S., University of Michigan.
- MORRIS L. BREHMER (1961, 1959), *Professor of Marine Science*. B.S., Eastern Illinois University; M.S. and Ph.D., Michigan State University.
- GARNETT R. BROOKS, JR. (1963, 1962), *Assistant Professor of Biology*. B.S. and M.S., University of Richmond; Ph.D., University of Florida.
- MITCHELL A. BYRD (1963, 1956), *Professor of Biology*. B.S., M.S. and Ph.D., Virginia Polytechnic Institute.
- JOHN C. CACCIAPAGLIA (1962, 1962), *Instructor in English*. A.B. and M.A., University of North Carolina.
- LESTER J. CAPPON (1946, 1945), *Lecturer in History*. A.B. and M.A., University of Wisconsin; M.A. and Ph.D., Harvard University.
- JANE CARSON (1963, 1963), *Lecturer in History*. A.B., Flora Macdonald College; M.A. and Ph.D., University of Virginia.
- JAMES DAVID CARTER, JR. (1930, 1927), *Associate Professor of Modern Languages*. A.B., College of William and Mary; Docteur de l'Université de Toulouse.
- BENJAMIN RALPH CATO (1961, 1955), *Associate Professor of Mathematics*. A.B. and M.A., Duke University.
- WILLIAM B. CHAMBERS, JR. (1957, 1957), *Assistant Professor of Physical Education*. B.S., College of William and Mary.
- ROYCE W. CHESSER (1962, 1962), *Associate Professor of Education*. A.B., Wake Forest; M.Ed., College of William and Mary.
- I-KUA CHOU (1959, 1949), *Professor of Government*. LL.B., National Fuh-tan University; M.A. and Ph.D., Fletcher School of Law and Diplomacy.
- GRAVES GLENWOOD CLARK (1958, 1920), *Chancellor Professor of English*. A.B., University of Richmond; LL.B., Richmond College; M.A., Columbia University.

- JAMES M. CLARK, Major, Q.M.C. (1960, 1960), *Assistant Professor of Military Science*. B.S. and M.S., University of Alabama.
- PAUL N. CLEM (1959, 1959), *Associate Professor of Education*. A.B., Bridgewater College; M.A. and Ph.D., Michigan State University
- JAMES W. COKE (1959, 1957), *Assistant Professor of Modern Languages*. A.B., Western Kentucky State College; M.A. and Ph.D., Indiana University.
- RICHARD W. COPELAND (1961, 1961), *Associate Professor of Education*. A.B., College of William and Mary; M.Ed. and Ed.D., University of Florida.
- HIBBERT DELL COREY (1943, 1929), *Professor of Economics and Business Administration*. A.B., University of Michigan; M.A., Ohio State University.
- GEORGE W. CRAWFORD (1960, 1960), *Associate Professor of Physics*. B.S., Davidson College; M.S., University of North Carolina; Ph.D., Ohio State University.
- FREDERICK R. CROWNFIELD, JR. (1957, 1956), *Associate Professor of Physics*. A.B., Harvard University; M.S. and Ph.D., Lehigh University.
- JOSEPH CURTIS (1953, 1948), *Professor of Law*. B.S., LL.B. and LL.M., New York University.
- JAMES S. DARLING (1961, 1961), *Lecturer in Music*. A.B., Yale University; B.M., Yale School of Music; M.M., University of Michigan.
- CHARLES EDWARD DAVIDSON (1958, 1949), *Associate Professor of English*. A.B., Princeton University; M.A. and Ph.D., Yale University.
- WILLIAM F. DAVIS, JR. (1960, 1960), *Instructor in English*. A.B., Princeton University; M.A., Yale University.
- WILLIAM JACKSON DAVIS (1963, 1963), *Associate Professor of Marine Science*. B.S., Virginia Polytechnic Institute; Ph.D., University of Kansas.
- PETER L. DERKS (1960, 1960), *Assistant Professor of Psychology*. A.B., Knox College; M.A., Harvard University; Ph.D., University of Pennsylvania.

- EDMOND T. DERRINGE (1957, 1957), *Lecturer in Physical Education*. B.S., Georgetown University; M.Ed., College of William and Mary.
- CARL R. DOLMETSCH (1963, 1959), *Associate Professor of English*. A.B. and M.A., Drake University; Ph.D., University of Chicago.
- BIRDENA E. DONALDSON (1956, 1956), *Associate Professor of History*. A.B., Franklin College; M.A., Northwestern University; Ed.D., Columbia University.
- JOHN DONALDSON (1963, 1963), *Lecturer in Law*. A.B., University of Richmond; B.C.L., College of William and Mary.
- DOROTHY W. DYER (1962, 1962), *Instructor in Psychology*. B.S. and M.A., College of William and Mary.
- HUGH B. EASLER (1962, 1962), *Assistant Professor of Mathematics*. A.B., Wofford College; M.S., University of South Carolina.
- MORTON ECKHAUSE (1964, 1964), *Research Assistant Professor of Physics*. A.B., New York University; Ph.D., Carnegie Institute of Technology.¹
- JACK D. EDWARDS (1962, 1962), *Assistant Professor of Government*. A.B., Macalester College; LL.B., Harvard Law School.
- LLOYD J. ELLIOTT (1963, 1963), *Associate Professor of Economics*. B.S., St. Mary's University (Texas); M.B.A., University of Houston.
- NATHANIEL Y. ELLIOTT (1963, 1963), *Instructor in English*. B.S., New York State University; M.A., Syracuse University.
- ANTHONY J. ESLER (1962, 1962), *Assistant Professor of History*. A.B., University of Arizona; M.A. and Ph.D., Duke University.
- FRANK BROOKE EVANS III (1961, 1947), *Professor of English*. A.B., Amherst College; M.A. and Ph.D., Princeton University.
- CARL A. FEHR (1961, 1945), *Professor of Music*. A.B. and M.A., University of Texas; M.Mus., University of Michigan; Ed.D., Columbia University.

¹February, 1964.

- EDWIN D. FLOYD (1962, 1962), *Instructor in Ancient Languages*. A.B., Yale University; M.A., Princeton University.
- LEWIS A. FOSTER, JR. (1958, 1954, 1955), *Assistant Professor of Philosophy*. A.B. and M.A., University of Virginia.
- HAROLD LEES FOWLER (1946, 1934), *Professor of History*. A.B., Dartmouth College; M.A. and Ph.D., Harvard University.
- JOHN THATCHER FRENCH (1961, 1961), *Instructor in English*. A.B., St. Vincent College; M.A., The Johns Hopkins University.
- HERBERT FRIEDMAN (1963, 1963), *Assistant Professor of Psychology*. A.B., Brooklyn College; M.A. and Ph.D., University of Connecticut.
- MORTON J. FRISCH (1961, 1953), *Associate Professor of Government*. A.B., Roosevelt College; M.A., University of Chicago; Ph.D., Pennsylvania State University.¹
- HERBERT FUNSTEN (1963, 1963), *Research Associate Professor of Physics*. A.B., M.A. and Ph.D., University of Virginia.
- ALICE CAROL GAAR (1962, 1962), *Instructor in Modern Languages*. A.B. and B.S., Louisiana State University; M.A., Columbia University.
- ARMAND J. GALFO (1961, 1958), *Associate Professor of Education*. A.B., M.Ed. and Ed.D., University of Buffalo.
- MARTIN A. GARRETT (1963, 1963), *Assistant Professor of Economics*. B.S., Middle Tennessee State College.
- W. LEWIS GARVIN (1961, 1961), *Instructor in English*. A.B. and M.A., Southern Methodist University.
- MARILYN GAULL (1963, 1963), *Instructor in English*. A.B., University of Massachusetts; M.A., University of Indiana.
- LEON GOLDEN (1961, 1961), *Assistant Professor of Ancient Languages*. A.B., M.A. and Ph.D., University of Chicago.
- MARIANO GONZALES-ABOIN (1961, 1961), *Instructor in Modern Languages*. M.A., School of Political Science, University of Madrid; Master of Law, University of Madrid.

¹On leave of absence, 1963-1964.

- BRUCE K. GOODWIN (1963, 1963), *Assistant Professor of Geology*. A.B., University of Pennsylvania; M.S. and Ph.D., Lehigh University.
- DAVID J. GRAY (1962, 1959), *Associate Professor of Sociology and Anthropology*. A.B., M.A. and Ph.D., Pennsylvania State University.
- HARRY R. GROVES (1956, 1956), *Lecturer in Physical Education*. B.S., Temple University; M.Ed., College of William and Mary.
- IRA D. GRUBER (1962, 1962), *Instructor in History*. A.B., M.A. and Ph.D., Duke University.
- WILLIAM GEORGE GUY (1930, 1925), *Chancellor Professor of Chemistry*. B.Sc. and A.B., Mt. Allison University, Canada; A.B., Oxford University, England; Ph.D., University of Chicago.
- ALBERT E. HAAK (1959, 1947), *Associate Professor of Theatre and Speech*. A.B., Lawrence College; M.A., College of William and Mary.
- ARTHUR E. HAASE (1963, 1963), *Instructor in Modern Languages*. A.B., Beloit College; M.A., Yale University.
- GUSTAV W. HALL (1963, 1963), *Assistant Professor of Biology*. A.B. and M.S., Ohio State University.
- MARGARET HAMILTON (1953, 1953), *Assistant Professor of Government*. A.B., University of Michigan; M.A. and Ph.D., Columbia University.
- BEN A. HAMMACK (1958, 1958), *Lecturer in Psychology*. A.B. and M.A., University of Texas.
- EUGENE RAE HARCUM (1961, 1958), *Associate Professor of Psychology*. B.S., College of William and Mary; M.A., The Johns Hopkins University; Ph.D., University of Michigan.
- WILLIAM J. HARGIS, JR. (1959, 1955), *Professor of Marine Science*. A.B. and M.A., University of Richmond; Ph.D., Florida State University.

- BRYANT E. HARRELL (1958, 1956), *Associate Professor of Chemistry*. B.S., Randolph-Macon College; M.A. and Ph.D., The Johns Hopkins University.¹
- PHILIP W. HARRISON (1962, 1962), *Associate Professor of Marine Science*. B.S., M.S. and Ph.D., University of Chicago.
- RUSSELL T. HASTINGS (1962, 1958), *Assistant Professor of Theatre and Speech*. B.F.A., Washington University; M.F.A., Yale University.
- RALPH ROBERT HATHAWAY (1963, 1963), *Associate Professor of Marine Science*. A.B., Duke University; M.S. and Ph.D., Florida State University.
- DEXTER S. HAVEN (1959, 1949), *Associate Professor of Marine Science*. B.S. and M.S., Rhode Island State College.
- PAUL W. HEEMAN (1962, 1962), *Instructor in English*. A.B. and M.A., University of North Carolina.
- DONALD J. HERRMANN (1963, 1951), *Professor of Education*. B.E., Northern Illinois University; M.A. and Ph.D., Michigan State University.
- TREVOR B. HILL (1963, 1963), *Associate Professor of Chemistry*. B.S., University of Alberta, Canada; Ph.D., Cornell University.
- E. LEWIS HOFFMAN (1961, 1947), *Associate Professor of Modern Languages*. B.S., Roanoke College; M.A. and Ph.D., George Washington University.
- JULIAN L. HOGAN, Lt. Col. (1963, 1963), *Professor of Military Science*. A.B., Creighton University.
- HOWARD K. HOLLAND (1958, 1948), *Professor of Education*. A.B., M.A. and Ph.D., University of Michigan.
- H. LESTER HOOKER (1963, 1963), *Assistant Professor of Physical Education*. A.B., M.Ed., College of William and Mary.
- CAROL ANN HUBERT (1963, 1963), *Instructor in English*. A.B., College of the Holy Names; M.A., University of North Carolina.

¹On leave of absence, 1963-1964.

- MARIE L. HUNKEN (1963, 1963), *Lecturer in Biology*. B.S., College of William and Mary.
- ROBERT HURSEY (1963, 1963), *Lecturer in Mathematics*. B.S., University of North Carolina.
- RODERICK AIRTH IRONSIDE (1960, 1960), *Assistant Professor of Education*. A.B., Cornell University; M.A. and Ph.D., University of Michigan.
- DAVID CLAY JENKINS (1958, 1956), *Assistant Professor of English*. A.B. and M.A., University of Alabama; Ph.D., State University of Iowa.
- DUDLEY JENSEN (1962, 1951), *Associate Professor of Physical Education for Men*. B.S., Springfield College; M.A., Teachers College, Columbia University.
- LUDWELL H. JOHNSON (1961, 1958), *Associate Professor of History*. A.B. and Ph.D., The Johns Hopkins University.
- ROBERT A. JOHNSTON (1963, 1963), *Associate Professor of Psychology*. A.B., Haverford College; M.A. and Ph.D., State University of Iowa.
- J. WARD JONES (1961, 1961), *Associate Professor of Ancient Languages*. A.B., University of Richmond; M.A. and Ph.D., University of North Carolina.
- M. B. JONES (1959, 1959), *Associate Professor of Business Administration*. A.B., University of Virginia; M.A. and Ph.D., University of North Carolina.
- W. MELVILLE JONES (1953, 1928), *Professor of English*. A.B., Allegheny College; M.A., Ohio State University; Ph.D., Harvard University.
- E. B. JOSEPH (1961, 1959), *Professor of Marine Science*. B.S., University of Florida; M.S. and Ph.D., Florida State University.
- ALEXANDER KALLOS (1959, 1949), *Associate Professor of Modern Languages*. S.C.L., Vienna Commercial Academy; M.A. and Ph.D., University of Pennsylvania.
- ROBERT KERNELL (1958, 1958), *Assistant Professor of Physics*. A.B., Wofford College; M.S., University of South Carolina.¹

¹On leave of absence, 1963-1964.

- R. WAYNE KERNODLE (1953, 1945), *Professor of Sociology and Anthropology*. A.B., M.A. and Ph.D., University of North Carolina.
- EDWARD L. KESSLER (1963, 1963), *Instructor in English*. A.B., University of Virginia; M.A., Rutgers University.
- JEROME C. KINDRED (1962, 1962), *Instructor in English*. A.B., Harvard University; M.A., University of Pennsylvania.
- ALGIN B. KING (1959, 1955), *Professor of Business Administration*. A.B., University of South Carolina; M.S., New York University.¹
- GLENN GARRETT KIRK (1961, 1961), *Instructor in Theatre and Speech*. A.B., Dartmouth College; M.A., University of Florida.
- JOHN VANESS KOMAN (1963, 1963), *Lecturer in Music*.
- REINO KORPI (1952, 1947), *Associate Professor of Modern Languages*. A.B., Clark University; M.A., University of Wisconsin.
- LILIANE KREBS (1963, 1963), *Instructor in Modern Languages*. A.B., University of Paris (Sorbonne); M.A., Florida State University.
- ALEXANDER I. KURTZ (1962, 1962), *Assistant Professor of Modern Languages*. Licentiate, Leopold-Francis University, Innsbruck, Austria; M.A., Rutgers University; Ph.D., Leopold-Francis University.
- MICHAEL H. KUTNER (1962, 1962), *Assistant Professor of Mathematics*. B.S., Teachers College of Connecticut; M.A., Virginia Polytechnic Institute.
- JOHN LACHS (1962, 1959), *Associate Professor of Philosophy*. A.B. and M.A., McGill University; Ph.D., Yale University.
- J. WILFRED LAMBERT (1959, 1931), *Professor of Psychology*. A.B., College of William and Mary.
- JAMES D. LAWRENCE, JR. (1962, 1960), *Associate Professor of Physics*. B.S., Virginia Military Institute; M.A. and Ph.D., University of Virginia.

¹On leave of absence, 1963-1964.

- SYDNEY H. LAWRENCE (1961, 1961), *Assistant Professor of Mathematics*. A.B. and M.A., University of Virginia.
- JAMES R. LEACH (1963, 1963), *Instructor in Philosophy*. A.B., Heidelberg College; M.A., Trinity University (Texas).
- PHYLLIS G. LEACH (1963, 1963), *Lecturer in Government*. A.B., Heidelberg College; M.A., University of Chicago.
- JOSEPH R. LEE (1962, 1953), *Professor of Mathematics*. A.B., M.A. and Ph.D., Yale University.
- LAWRENCE C. LEONARD (1957, 1955), *Lecturer in Mathematics*. B.S., U. S. Military Academy.
- MONT LINKENAUER (1963, 1960), *Assistant Professor of Physical Education for Men*. B.S. and M.Ed., College of William and Mary; R.P.T., Medical College of Virginia.
- JOHN H. LONG (1955, 1955), *Assistant Professor of Physics*. B.S., U. S. Naval Academy; M.S., Harvard University.
- EDRIL LOTT (1963, 1950), *Associate Professor of Secretarial Science*. A.B., Mississippi State College for Women; M.A., Mississippi Southern University.
- CARL W. McCARTHA (1955, 1955), *Associate Professor of Education*. B.S., Newberry College; M.A., University of North Carolina; Ed.D., University of Florida.
- BEN CLYDE McCARY (1930, 1930), *Associate Professor of Modern Languages*. A.B., University of Richmond; Docteur de l'Université de Toulouse.
- DONALD L. McCONKEY (1958, 1954), *Assistant Professor of Theatre and Speech*. B.S. in Education, Illinois State Normal University; M.A., Ohio State University.
- CECIL M. McCULLEY (1963, 1948), *Professor of English*. A.B. and M.A., Southern Methodist University; Ph.D., Columbia University.
- BRUCE T. McCULLY (1961, 1940), *Professor of History*. A.B., Rutgers University; M.A. and Ph.D., Columbia University.
- VIRGIL V. McKENNA (1962, 1962), *Assistant Professor of Psychology*. A.B., College of William and Mary; M.A., Swarthmore College.

- JOHN L. MCKNIGHT (1958, 1957), *Associate Professor of Physics*. A.B., University of Michigan; M.S. and Ph.D., Yale University.
- DONALD E. MCLENNAN (1959, 1959), *Professor of Physics*. A.B., University of Western Ontario; M.A. and Ph.D., University of Toronto.
- FRANK A. MACDONALD (1955, 1955), *Professor of Philosophy*. A.B. and M.A., College of William and Mary; M.A., Harvard University.
- JOHN T. MACQUEEN (1962, 1962), *Assistant Professor of Chemistry*. B.S., Davidson College; Ph.D., University of North Carolina.
- ROBERT L. MANIEY (1961, 1961), *Assistant Professor of Modern Languages*. B.S. and M.A., University of Paris (Licence ès Lettres).
- BARRY H. MANN (1963, 1963), *Instructor in Modern Languages*. A.B., College of William and Mary; M.A., University of Madrid (Middlebury College).
- J. LUKE MARTEL (1963, 1963), *Associate Professor of Modern Languages*. A.B., University of Arizona; Licence ès Lettres, Montpellier; Ph.D., Université d'Aix-Marseille.
- MILDRED MATIER (1961, 1961), *Lecturer in Education*. A.B. and M.A., College of William and Mary.
- JOHN R. MATTHEWS, JR. (1963, 1961), *Associate Professor of Economics*. B.S. and M.A., University of Virginia.
- THELMA MILLER (1957, 1954), *Assistant Professor of Home Economics*. A.B., Berea College; M.S., University of Tennessee.
- JOHN A. MOORE (1959, 1950), *Associate Professor of Modern Languages*. B.S., Davidson College; M.A. and Ph.D., University of North Carolina.
- GEORGE MOSKOVITS (1960, 1960), *Associate Professor of Marine Science*. A.B., New York University; M.S., University of Rhode Island; Ph.D., Agricultural and Mechanical College of Texas.
- WILLIAM WARNER MOSS, JR. (1937, 1937), *John Marshall Professor of Government and Citizenship*. A.B., University of Richmond; M.A. and Ph.D., Columbia University.

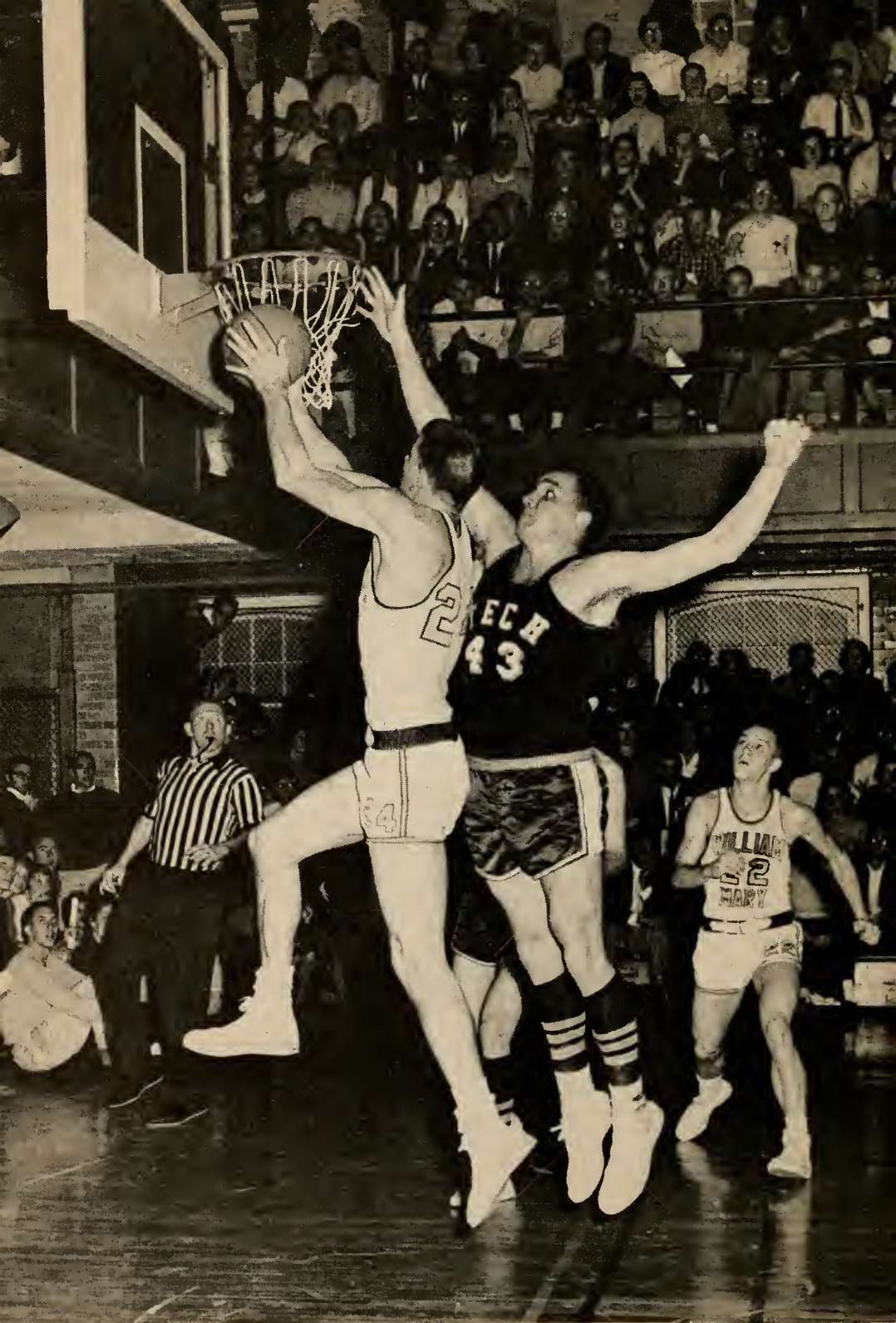
- ROGER NEILSON (1962, 1962), *Instructor in Physical Education for Men*. B.S., East Stroudsburg State College; M.S., Syracuse University.
- FRASER NEIMAN (1958, 1938), *Professor of English*. A.B., Amherst College; M.A., and Ph.D., Harvard University.
- EDWARD J. NEUGAARD (1959, 1959), *Instructor in Modern Languages*. A.B., Jamestown College, North Dakota; M.A., University of Wisconsin.
- RICHARD K. NEWMAN, JR. (1954, 1946), *Associate Professor of Fine Arts*. A.B., Dartmouth College; Ph.D., Yale University.
- MAYNARD M. NICHOLS (1961, 1961), *Associate Professor of Marine Science*. B.S., Columbia University; M.S., Florida State University.
- STANLEY A. NICHOLSON (1963, 1963), *Assistant Professor of Economics*. A.B., Montana State University.
- J. J. NORCROSS (1959, 1959), *Assistant Professor of Marine Science*. A.B., William Jewell College; M.S., Michigan State University.
- DONALD NUNES (1961, 1961), *Instructor in English*. A.B., Wesleyan University; Ph.D., University of Rochester.
- GEORGE S. OFELT (1963, 1963), *Assistant Professor of Physics*. B.S., College of William and Mary; Ph.D., The Johns Hopkins University.
- DIETRICH O. ORLOW (1963, 1962), *Assistant Professor of History*. A.B., Ohio State University; M.A. and Ph.D., University of Michigan.
- RICHARD BRUCE OTIS (1960, 1960), *Instructor in Modern Languages*. A.B., University of Washington.
- PIERRE C. OUSTINOFF (1958, 1953), *Professor of Modern Languages*. A.B., M.A. and Ph.D., Columbia University.
- DEAN P. OWENS (1963, 1963), *Instructor in Marine Science*. A.B., Duke University; M.S., Wagner College; M.S., The Johns Hopkins University.



Carrett Hall, Women's Dormitory

Winter's First Snow at Dusk





Varsity Action in Blow Gym

- STEPHEN P. PALEDES (1961, 1954), *Assistant Professor of Music*. Juilliard School of Music; A.B. and M.A., American University.
- LAWRENCE PECCATIELLO (1963, 1961), *Instructor in Physical Education for Men*. B.S. and M.A., College of William and Mary.
- ROBERT A. PEDIGO (1963, 1960), *Associate Professor of Biology*. B.S., Butler University; M.S. and Ph.D., Emory University.
- DWYNAL B. PETTENGILL (1962, 1962), *Assistant Professor of Government*. B.S. and M.A., University of Florida; Ph.D., The Johns Hopkins University.
- ARTHUR WARREN Phelps (1945, 1945), *Professor of Law*. A.B., Washington and Lee University; M.A., Ohio State University; LL.B., University of Cincinnati; LL.M., Columbia University.
- WILLIAM H. PHILLIPS (1963, 1963), *Lecturer in Fine Arts*. B.Arch., Auburn University.
- MELVIN A. PITTMAN (1955, 1955), *Professor of Physics*. B.S., The Citadel; M.S., University of South Carolina; Ph.D., The Johns Hopkins University.
- RICHARD POWERS (1962, 1962), *Professor of Economics*. B.S., M.A. and Ph.D., University of Virginia.¹
- JOHN S. QUINN (1959, 1949, 1956), *Professor of Business Administration*. B.S., State Teachers College, Salem, Massachusetts; M.C.S., Boston University; M.B.A., Harvard Business School; C.P.A.
- CHARLES L. QUITMEYER (1962, 1948, 1962), *Professor of Business Administration*. A.B., College of William and Mary; M.B.A., Harvard University; Ph.D., Columbia University.
- MARCEL REBOUSSIN (1962, 1946), *Professor of Modern Languages*. Professorat de francais, Ecole Normale Supérieure de St. Cloud; M.A., Columbia University; Agrégé des lettres, Sorbonne, Paris.²

¹Resigned, February 1, 1964.

²On leave of absence, 1963-1964.

- WILLIAM T. REECE (1960, 1960), *Associate Professor of Business Administration*. B.S. and M.B.A., University of North Carolina; C.P.A.
- ELIZABETH S. REED (1962, 1955), *Assistant Professor of Philosophy*. A.B., Butler University; M.A., Florida State University; Ph.D., Duke University.
- MARION DALE REEDER (1952, 1943), *Associate Professor of Physical Education*. B.S. and M.S., University of Illinois.
- THOMAS L. REYNOLDS (1960, 1960), *Professor of Mathematics*. B.S., Guilford College; M.A. and Ph.D., University of North Carolina.
- EDWIN H. RHYNE (1962, 1945), *Associate Professor of Sociology and Anthropology*. B.S., Clemson College; M.A. and Ph.D., University of North Carolina.
- EDWARD MILES RILEY (1963, 1963), *Lecturer in History*. A.B., Washington and Lee University; M.A. and Ph.D., University of Southern California.
- F. J. PATRICK RILEY, JR. (1962, 1962), *Instructor in Education*. A.B. and M.Ed., College of William and Mary.
- GORDON B. RINGGOLD (1963, 1946), *Professor of Modern Languages*. A.B., Dennison University; M.A., Middleburg College; Ph.D., Georgetown University.
- DONALD W. ROGERS (1962, 1962), *Assistant Professor of Philosophy*. A.B., Northwestern University; M.A. and Ph.D., Yale University.
- JAMES M. ROHERTY (1963, 1963), *Visiting Associate Professor of Government*. A.B. and M.A., University of Washington; Ph.D., University of Wisconsin.¹
- CARL A. ROSEBERG (1957, 1947), *Associate Professor of Fine Arts*. B.F.A. and M.F.A., State University of Iowa; Life Fellow, International Institute of Arts and Letters.
- FRANCES MAE RUCKER (1962, 1962), *Instructor in Physical Education for Women*. A.B. and M.Ed., Kent State University.

¹Associate Professor, Mount Mary College, 1963—.

- GEORGE J. RYAN (1945, 1935), *Professor of Ancient Languages*. A.B. and M.A., St. Louis University; Ph.D., University of Michigan.
- SHELDON SALSBERG (1963, 1963), *Instructor in Sociology and Anthropology*. A.B., Brooklyn College; M.A., New York University.
- ANTHONY L. SANCETTA (1961, 1948), *Professor of Economics*. A.B., Western Reserve University; M.S. and Ph.D., Columbia University.
- WILLIAM C. SANDERS (1962, 1962), *Assistant Professor of Military Science*. A.B., North Georgia College.
- JAMES W. SAWYER (1960, 1960), *Instructor in Theatre and Speech*. A.B., Bates College; M.S., Syracuse University.
- HOWARD M. SCAMMON (1963, 1948), *Associate Professor of Theatre and Speech*. A.B., College of William and Mary; M.A., Northwestern University.
- JOHN E. SELBY (1963, 1963), *Lecturer in History*. A.B., Harvard University; M.A. and Ph.D., Brown University.
- JAMES A. SERVIES (1957, 1953), *Librarian*. Ph.B. and M.A., University of Chicago.
- RICHARD B. SHERMAN (1960, 1960), *Assistant Professor of History*. A.B., Harvard College; M.A., University of Pennsylvania; Ph.D., Harvard University.
- SUSANNE K. SHERMAN (1963, 1963), *Lecturer in Theatre and Speech*. A.B., Woman's College, University of North Carolina; M.A., College of William and Mary.
- JAMES E. SHOCKLEY (1961, 1961), *Associate Professor of Mathematics*. A.B., M.A. and Ph.D., University of North Carolina.
- JAMES ROBERT SHUSTER (1963, 1960), *Assistant Professor of Sociology and Anthropology*. A.B., Haverford College; M.A., Princeton University.
- ROBERT T. SIEGEL (1963, 1963), *Research Professor of Physics*. B.S., M.S. and D.Sc., Carnegie Institute of Technology.

- J. J. SINGH (1962, 1962), *Associate Professor of Physics*. B.Sc. and M.Sc., Panjab University, India; Ph.D., University of Liverpool, England.
- HOWARD M. SMITH, JR. (1953, 1946), *Associate Professor of Physical Education*. B.S., College of William and Mary; M.S., Syracuse University.
- JAMES MORTON SMITH (1956, 1955), *Lecturer in History*. B.Ed. Southern Illinois University; M.A., University of Oklahoma; Ph.D., Cornell University.
- LEROY W. SMITH (1962, 1956), *Associate Professor of English*. A.B., American University; M.A., George Washington University; Ph.D., Duke University.
- ROBERT E. SMITH (1946, 1946), *Associate Professor of Physics*. A.B., Allegheny College; M.A., University of North Carolina.
- AUGUSTUS SORDINAS (1964, 1964), *Assistant Professor of Sociology and Anthropology*. B.S., Georgetown University; M.A., Harvard University.¹
- BERNICE M. SPEESE (1952, 1946), *Assistant Professor of Biology*. B.S. and M.A., College of William and Mary; Ph.D., University of Virginia.
- FRANK J. STAROBA (1961, 1961), *Assistant Professor of Theatre and Speech*. A.B., DePauw University; M.A., Northwestern University.
- E. BLYTHE STASON, JR. (1963, 1963), *Assistant Professor of Law*. A.B., M.A. and LL.B., University of Michigan; LL.M., Harvard University.
- ALAN C. STEWART (1952, 1944), *Associate Professor of Music*. A.B., Union College; M.A., Columbia University.
- DONALD B. STONE (1964, 1964), *Lecturer in Geology*. B.S., Colgate University; M.S., Union College.¹
- HOWARD STONE (1963, 1948), *Professor of Modern Languages*. A.B., Pomona College; M.A., Claremont College; Ph.D., University of California.

¹February 1, 1964.

- W. DABNEY STUART III (1961, 1961), *Instructor in English*. A.B., Davidson College; M.A., Harvard University.
- WILLIAM F. SWINDLER (1958, 1958), *Professor of Legal History*. A.B. and B.S., Washington University (St. Louis); M.A. and Ph.D., University of Missouri; LL.B., University of Nebraska.
- JOHN W. SYKES (1963, 1963), *Assistant Professor of Education*. A.B., New York State College; M.Ed., University of Virginia.
- AUGUST TAMMARIELLO (1963, 1962), *Instructor in Physical Education for Men*. B.S., University of Denver; M.A., Pennsylvania State University.
- LAVONNE O. TARLETON (1962, 1959), *Instructor in Chemistry*. B.Ch.E., Cornell University.
- THADDEUS W. TATE, JR. (1961, 1961), *Assistant Professor of History*. A.B. and M.A., University of North Carolina; Ph.D., Brown University.
- CHARLES L. TAYLOR (1962, 1962), *Instructor in Government*. A.B., Carson Newman College; M.A. and Ph.D., Yale University.
- RICHARD C. TERMAN (1963, 1963), *Assistant Professor of Biology*. A.B., Albion College; M.S. and Ph.D., Michigan State University.
- THOMAS E. THORNE (1945, 1940), *Associate Professor of Fine Arts*. B.F.A., Yale University.
- FREDERICK D. TRUESDELL (1963, 1960), *Professor of Music*. B.M. and M.M., in Composition, and M.M., in Piano, University of Michigan; A.M.D., University of Rochester.
- WILLIAM C. TURNER (1960, 1960), *Assistant Professor of Mathematics*. B.S., Furman University; M.A., Duke University.
- ANNE S. TYLER (1962, 1962), *Instructor in Modern Languages*. A.B., Randolph-Macon Woman's College; M.A., Columbia University.
- WILLARD A. VAN ENGEL (1961, 1946), *Professor of Marine Science*. B.Ph. and M.Ph., University of Wisconsin.

- CHARLES R. VARNER (1958, 1953), *Associate Professor of Music*. B.M.E. and M.M., Northwestern University.
- CAROL ANNE WALLACE (1963, 1963), *Assistant Professor of Physical Education for Women*. A.B., Hollins College; M.A., Sarah Lawrence College.
- JUNIUS ERNEST WARRINER III (1963, 1963), *Instructor in Marine Science*. B.S. and M.S., College of William and Mary.
- MARVIN L. WASS (1960, 1960), *Associate Professor of Marine Science*. B.S., Winona State College; M.S., Florida State University; Ph.D., University of Florida.
- FRED WILSON WEILER (1962, 1960), *Associate Professor of Mathematics*. B.S., Muhlenberg College; M.A., University of Pennsylvania; Ph.D., Ohio State University.
- BRUCE L. WELCH (1962, 1962), *Assistant Professor of Biology*. A.B., Auburn University; Ph.D., Duke University.
- ROBERT E. WELSH (1963, 1963), *Research Associate Professor of Physics*. B.S., Georgetown University; Ph.D., Pennsylvania State University.
- JAMES P. WHYTE (1958, 1958), *Professor of Law*. A.B., Bucknell University; M.A., Syracuse University; LL.B., University of Colorado.
- ALMA L. WILKIN (1957, 1928), *Associate Professor of Home Economics*. B.S., Kansas State University; M.A., Teachers College, Columbia University.
- RUTH E. WILLIAMS (1963, 1963), *Lecturer in Education*. A.B., Mary Washington College.
- STANLEY B. WILLIAMS (1948, 1948), *Professor of Psychology*. A.B. and M.A., University of California, Los Angeles; Ph.D., Yale University.
- JOHN H. WILLIS, JR. (1962, 1959), *Instructor in English*. A.B., University of Virginia; M.A., Columbia University.
- CHARLES X. WITTEN (1963, 1963), *Instructor in Physical Education for Men*. B.S. and M.A., University of Maryland.

- MILTON R. WOFFORD, Capt. (1963, 1963), *Assistant Professor of Military Science*. B.S., United States Military Academy.
- J. L. WOOD (1963, 1959), *Professor of Marine Science*. B.S., Massachusetts State College; M.S., University of Massachusetts; Ph.D., Columbia University.
- LANGLEY H. WOOD (1961, 1961), *Assistant Professor of Marine Science*. B.S., Richmond Professional Institute; M.A., Columbia University.
- DUDLEY WARNER WOODBRIDGE (1932, 1927), *Chancellor Professor of Law*. A.B. and J.D., University of Illinois.
- JOSEPH T. ZUNG (1961, 1961), *Assistant Professor of Chemistry*. B.S., University of Grenoble; M.A., Urban University, Rome; Ph.D., University of Cincinnati.

Library Staff

- JAMES ALBERT SERVIES (1957, 1953), *Librarian*. Ph.B. and M.A., University of Chicago.
- HERBERT LAWRENCE GANTER (1950, 1940, 1948), *Archivist*. A.B. and B.C.L., College of William and Mary.
- MILDRED S. MILLER (1957, 1957), *Periodicals Librarian*. A.B., Texas Woman's College.
- RACHEL DURHAM ALDRICH (1958, 1958), *Cataloguing Librarian*. B.Ed., Plymouth Teachers College; B.S. in Library Science, Simmons College.
- ANNA BOOTHE JOHNSON (1960, 1959), *Law Librarian*. B.S., Longwood College.
- GERALD EUGENE RENNER (1963, 1963), *Reference and Circulation Librarian*. B.S. (Education) and B.S. (Journalism), University of Kansas; M.A. in L.S., Louisiana State University.
- JAMES WITHERS WALLER (1963, 1963), *Circulation Assistant*. B.S. Virginia Polytechnic Institute.
- AILENE ANNE ZIRKLE (1963, 1963), *Assistant Cataloguer*. B.A., Madison College; M.A. in L.S., Peabody College.

Health Service Staff

- | | |
|-----------------------------|--------------------------|
| ROBERT E. DEBORD, M.D. | <i>College Physician</i> |
| SUE M. HARTSFIELD, R.N. | <i>Head Nurse</i> |
| MRS. CHARLES CHANDLER, R.N. | <i>Nurse</i> |
| MRS. BETTYE BRACEY, R.N. | <i>Nurse</i> |
| MRS. IRMA FEY, R.N. | <i>Nurse</i> |
| MRS. GORDON GRAY, R.N. | <i>Nurse</i> |

Committees of the Faculty

Academic Status: LAMBERT (Chairman), BICK, CATO, DERKS, JOHNSTON, MACDONALD.

Admissions: HARCUM (Chairman), GALFO, ORLOW, SHUSTER, THORNE.

Athletics (Men): HOLLAND (Chairman), BARNES, HOOKER (Ex-Officio), JOHNSTON, LEE, PEDIGO, ROSEBERG, SMITH, H.

Athletics (Women): REEDER (Chairman), BARKSDALE, BARRETT, RUCKER.

**Curriculum:* GRAY (Chairman), GOLDEN, REYNOLDS, KALLOS, LACHS, DERKS, PEDIGO, QUITTMAYER, SHERMAN.

†*Degrees:* W. M. JONES (Chairman), HARCUM, WARD JONES, RHYNE, RINGGOLD.

Discipline: LAMBERT (Chairman), BARNES, CURTIS, DONALDSON, L. JOHNSON, KUTNER.

**Faculty Affairs:* W. M. JONES (Chairman), ABBOT, KERNODLE, MCKNIGHT, MOSS, NEIMAN, NEWMAN.

Selection of Students for Foreign Study: GUY (Chairman), W. M. JONES, KALLOS, LAMBERT, L. SMITH.

Foreign Students and Opportunity for Foreign Study: GOLDEN (Chairman), LACHS, B. McCULLY, MOORE, NEIMAN, OTIS.

Graduate Studies: W. M. JONES (Chairman), ABBOT, ALTSHULER, BYRD, EVANS, HILL, SEIGEL, MACDONALD, REYNOLDS, WILLIAMS.

Honors: MOSS (Chairman), FOSTER, FOWLER, JOHNSTON, WARD JONES, KERNODLE, MCKENNA, MCKNIGHT, NEIMAN.

**Honorary Degrees:* CHOU (Chairman), TRUESDELL, WILLIAMS.

Arts and Lectures: DOLMETSCH (Chairman), HAAK, PALEDES, TATE, TAYLOR, THORNE, B. WELCH.

*Elected by the Faculty.

†Elected by Faculty, except for Chairman, who is appointed by the President.

NOTE: The President of the College is ex-officio member of all committees,

**Nominating*: MOSS (Chairman), GOLDEN, McLENNAN, RINGGOLD, SHERMAN, L. SMITH.

Prizes and Special Awards: FOWLER (General Chairman), *Botetourt Medal*: DONALDSON, JENKINS, KALLOS, LAMBERT, WILLIS; *Carr Cup*: LACHS, BARNES (also two additional members, one each to be named by the Senior and Junior Classes); *Sullivan Awards*: LAMBERT, C. McCULLEY, MOORE, PETTINGILL, H. SCAMMON, SNIDOW, SQUATRIGLIA, WOODBRIDGE.

Representatives to the General Cooperative Committee: BARNES, DOLMETSCH, DONALDSON, FEHR, LAMBERT, McKENNA, RHYNE, H. SMITH, SNIDOW.

Library: McKNIGHT (Chairman), BYRD, DAVIDSON, EDWARDS, MOORE, SERVIES, J. SMITH, STAROBA.

Research Funds: W. M. JONES (Chairman), ALTSHULER, BYRD, EVANS, FOSTER, HARCUM, B. McCULLY, QUITMEYER.

Scholarships and Student Employment: KORPI (Chairman), BRIGHT, COREY, HUNT, PETTINGILL, QUINN.

Special Events: (Chairman to be specially appointed for each event), *Convocation Marshals*: GUY, (Chief Marshal), BALL, BALDWIN, EVANS, FOWLER, HOFFMAN, KALLOS, KERNODLE, DERKS, PEDIGO.

Student Activities Fee: LAMBERT (Chairman), COPELAND, C. McCULLEY, REECE, WHYTE.

Students' Recreation: H. SMITH (Chairman), BARNES, BARRETT, DONALDSON, GREEN, REEDER, SNIDOW, VARNER.

Student Religious Activities: BRIGHT (Chairman), CATO, FEHR, GOLDEN, JENSEN, JOHNSTON, McKNIGHT, TARLETON, WILKIN.

*Elected by the Faculty.

COLLEGE CAMPUS AND BUILDINGS

THE COLLEGE CAMPUS, comprising approximately 1,200 acres of land, extends from the western edge of the restored area of Colonial Williamsburg to picturesque Lake Matoaka, and an extensive stretch of beautifully wooded land known as the College Woods. Within its boundaries are three sections known as the *Old Campus*, *The Main Campus*, and *The Developing Campus*.

In the front of a triangle formed by Jamestown and Richmond Roads, and facing the Duke of Gloucester Street, lies the elm-shaded *Old Campus* with its three original buildings. *The Sir Christopher Wren Building* (1695; restored 1928-31) has persisted despite damage by fires in 1705, 1859 and 1862. Its Great Hall contains portraits of Queen Anne (Kneller school) and thirteen members of the Bolling and affiliated families (1650-1850). The Chapel crypt contains, among others, the graves of Lord Botetourt, three Randolphs and Bishop James Madison. Still in daily classroom use, it is the oldest academic building in the United States and designated a National Historic Landmark by the Department of the Interior. *The Brafferton* (1723; restored 1932) was erected and maintained as an Indian School until the Revolution by income derived from Brafferton Manor, Yorkshire, England, purchased by the executors of Robert Boyle, the noted English physicist, to carry out his bequest to promote Christianizing the Indians. Today it serves as a College guest house and as headquarters for the Society of the Alumni. *The President's House* (1732; restored 1931) has served as home for each of the twenty-three presidents of the College. Damaged by fire in 1781, while occupied as a hospital by French Army officers after Yorktown, King Louis XVI later contributed to its repair. These three pre-Revolutionary masterpieces were restored through the generosity of John D. Rockefeller, Jr.

Behind the Wren Building, extending to the College Woods and flanking the Old Campus is the *Main Campus*. Through its center runs a wide sunken garden, lined on two sides by a boxwood hedge. On the north side of the sunken garden is the *Old Library* (1908, 1923, 1929), originally constructed with

Carnegie Foundation aid. Upon completion of the Earl Gregg Swem Library, the Old Library will house the Marshall-Wythe School of Law, its library and related academic and public affairs activities. West of the Old Library is *Rogers Hall* (1927), named for William Barton Rogers, student (1819-21), professor of natural philosophy and chemistry (1828-35), and founder and first president of Massachusetts Institute of Technology (1861-70). It contains classrooms and laboratories for chemistry and other studies. West of Rogers Hall is *Marshall-Wythe Hall* (1935) named for John Marshall, student (1870) and later Chief Justice of the United States, and for George Wythe, alumnus (c. 1746) and first professor of the oldest chair of law in the United States (1828-35). It is used for both administrative offices and classrooms.

On the east end, south side, of the sunken garden is *Ewell Hall* (1926; rebuilt 1958). Originally built by Phi Beta Kappa, it burned in 1953, and when rebuilt was named in honor of Benjamin Stoddert Ewell, fifteenth President of the College. It now houses the offices of the College President and Dean of Admissions as well as providing space for classrooms. West of Ewell Hall is *Washington Hall* (1928), named for the first President of the United States who also served as Chancellor of the College (1788-99), which is devoted to general classroom use. Farther west of the sunken garden, on the edge of the College Woods, are eleven lodges which are rented to the several social fraternities.

On the northern edge of the Main Campus, north of Richmond Road, is *Brown Hall* (1926), a dormitory housing 105 men. It is named for the home of Dudley Digges, Revolutionary patriot whose home stood on its site. Close by are nine college-owned residences occupied by sororities. In a westerly direction, south of Richmond Road, is *Blow Gymnasium* (1924; enlarged 1941), given by Mrs. George Preston Blow and family in memory of George Preston Blow, Captain, USN, whose father, George Blow II, and grandfather, Col. William Blow, attended the College in 1804 and 1829-31, respectively. It is used for men's physical education and R.O.T.C. To the southeast of Blow Gymnasium is *Monroe Hall* (1924), a men's dormitory housing 160, named for the fifth President of the United States and student at William and Mary (1774-76). Southwest of Blow Gymnasium is *Old Dominion Hall* (1927), a men's residence

housing 190, named in honor of Virginians who played a prominent part in the making of the Country. *Bryan Hall* (1953), north of Old Dominion, is the present home of the Marshall-Wythe School of Law, and was named for John Stewart Bryan, twentieth President of William and Mary (1934-42) and Chancellor of the College (1942-44). Adjacent to Bryan, and forming a complex of dormitories are *Dawson* (1953), named for the second and fourth College presidents, William (1743-52) and Thomas (1755-60); *Stith* (1953), named for the third President of the College, William Stith (1752-55); *Camm* (1949), named for the seventh College President, John Camm (1771-77); and *Madison* (1959), named for the eighth College President, James Madison (1777-1812). The total capacity of this dormitory complex is 324 men. West of Bryan complex is *Cary Field Park* (1935), consisting of a 15,000 seat stadium surrounded by men's athletic fields and parking areas. It was named for T. Archibald Cary, member of the College's Board of Visitors (1901-06), who gave funds for the first athletic field (1910) where Old Dominion and Bryan Halls now stand.

On the southern side of the Main Campus, south of Jamestown Road, is *Tyler Hall* (1916; renovated 1951), a men's residence housing 86, named for John Tyler, alumnus of the College (1806), and tenth President of the United States (1841-45). South of Tyler Hall is the *King Infirmary* (1930), named for Dr. David J. King, College physician (1919-34). The *Campus Center* (1960) is directly west of Tyler Hall and is the meeting place on Campus. It provides offices for student activities and publications and contains recreation rooms, a theater, and meeting and dining rooms in addition to "The Wigwam" which features a grill for light dining. West of the Campus Center is *Trinkle Hall* (1926), the main dining hall named in honor of E. Lee Trinkle, Governor of Virginia (1922-26), who was instrumental in restoring this building promptly after a fire had destroyed an earlier dining hall on the same site. South of Trinkle Hall are located the *College Laundry* and *Power Plant*, and west of Trinkle Hall is *The Fine Arts Building* (1893; renovated 1936) which provides classroom and studio space for painting and sculpturing. Directly west of The Fine Arts Building is *Taliaferro Hall* (1935), named for William Booth Taliaferro, alumnus of the College (1842), who was active in the reopening of the College in 1888

and a member of its Board of Visitors (1870-98). This is a men's dormitory accommodating 66 which also houses the College Book Store.

Farther west, on the north side of Jamestown Road, are four residence halls for women. *Jefferson Hall* (1920), named for Thomas Jefferson, student at the College (1760-62), reorganizer of the College curriculum (1779), member of the Board of Visitors (1779), and third President of the United States (1801-09), houses 115. West of Jefferson, and housing 164, is *Barrett Hall* (1927), named for Kate Waller Barrett, M.D., prominent Virginia civic leader, advocate of higher education for women and member of the Board of Visitors (1921-25). *Chandler Hall* (1931), housing 138, is west of Barrett and is named for Julian Alvin Carroll Chandler, alumnus (1891), and President of the College (1919-34). The largest women's dormitory, *Landrum Hall* (1958), is still farther west. It is named for Grace Warren Landrum, Dean of Women and Professor of English (1927-47), and houses 217.

On the extreme southwest edge of The Main Campus is *The Developing Campus*. Here, facing Jamestown Road, is *Phi Beta Kappa Memorial Hall* (1957) which contains an 805-seat theater, dressing rooms, scene building shops, classrooms, offices, a conference center and television and radio broadcasting facilities. Adjacent to Phi Beta Kappa are women's playing fields and tennis courts. North of Phi Beta Kappa is the *Earl Gregg Swem Library* (expected completion 1965), named for the College Librarian (1920-45). Here will be housed 500,000 catalogued items, the Lord Botetourt Art Gallery, the William and Mary Museum, the Institute of Early American History and Culture and an auditorium and seminar rooms. Northwest of Phi Beta Kappa is the *William Small Physical Laboratory* (1964) named for William Small, professor of Natural Philosophy (1758-64). Here are to be found modern and elaborate classrooms, laboratories and equipment for teaching and research in physics. Farther to the northwest is *Adair Gymnasium* for women (1963), named for Cornelia Storrs Adair, student (1921-23), and distinguished Virginia educational leader. Beyond Adair Gymnasium in the same direction is rising a new women's residence hall (expected completion 1964), as yet unnamed, which is expected to accommodate 270. Directly north of The Swem Library is *Yates Hall* (1962), a men's residence hall, housing 105, named for the Rev.

William Yates, fifth President of the College (1761-64). Far to the west of Phi Beta Kappa and on the shores of Lake Matoaka is the *Lake Matoaka Drama Amphitheatre* (1947), scene for 2,500 annual outdoor summer historical dramas.

The Library

The main library as of July 1, 1963, contained 307,540 catalogued volumes.¹ The books are classified according to the Dewey Decimal System with variation in special classes. Additional resources of the library include 154,858 government documents; 56,703 books and pamphlets in special collections; and 2,000 volumes administered for the State Board of Education. The number of different periodicals and newspapers regularly received is 1,494.

With the exception of the rare book collection and materials in storage, the volumes in the library are on open shelves and easily accessible to all students and members of the faculty. Students are privileged to go freely into the stack rooms to select the books they need or to browse at leisure.

The library is open Monday through Friday: 8 a. m. to 10 p. m., Saturday, 8 a. m. to 5 p. m.; Sunday: 2 to 5 p. m., 7 to 10 p. m. A student may borrow as many books at one time as he wishes. The privilege of borrowing books is granted to residents of Williamsburg and the adjoining counties, to military personnel stationed on the Peninsula, to members of the staff of Colonial National Historical Park at Jamestown and Yorktown, and to the staff of Colonial Williamsburg, Inc. When out-of-print material cannot be supplied from the library collection, inter-library loans are requested for graduate students and faculty members. In order to facilitate its use by new students, a lecture on the library is given to sections of each freshman class.

The Law Library in Bryan Hall numbers 32,568 volumes, and during the regular session is open Monday through Saturday: 8 a. m. to 11 p. m.; Sunday: 12 noon to 11 p. m.

The reserve book collection, on the second floor, is open during the regular library hours; it contains about 5,000 volumes,

¹The library holdings of the College also include more than 580,000 manuscripts, prints, maps, musical records, and newspapers dated before 1900. The total library holdings number 1,112,700.

which are changed each semester as the courses require. There are two departmental collections in special rooms which are open at special hours: the Education Library in Washington Hall, and the Chemistry Library in Rogers Hall.

Association books owned and used by distinguished Virginians now number more than 4,000 volumes. In this group, the volumes belonging to each of certain families have been kept together to exemplify the culture of the early planter families. The following family groups are noteworthy: Landon Carter, Francis Jerdone, St. George Tucker, William and Peyton Short, and John Tayloe. More than 2,000 books owned and used by William and Mary students before 1888 have been assembled; these illustrate the curricula of two centuries.

The collection of manuscripts, a portion of which has been arranged and catalogued by means of a grant from the General Education Board, touches Virginia life of three centuries. Worthy of special mention are representative letters of such distinguished Virginians as George Washington, John Marshall, Thomas Jefferson, James Monroe, John Tyler, James Madison, George Mason, William B. Taliaferro, and Joseph E. Johnston. As part of the collection, there are 2,000 ledgers, journals, letter books, diaries, account books and note books. Of prime importance is the collection of letters, documents, and accounts of officials, professors, and students of the College of William and Mary, to which notable additions are being made periodically.

The library is fortunate in receiving each year many gifts of books, from friends, alumni, members of the faculty, and students. These are always welcomed. The library houses two gifts established by the Friends of the College: the Memorial Book Shelf of currently published volumes to commemorate students and members of the faculty who lost their lives in World War II, and the lending library of musical recordings.

STUDENT LIFE

THE NATURAL FRIENDLINESS which exists at William and Mary is the distinctive characteristic of the daily life of the campus. The College seeks to foster intellectual interests, cultural appreciation, and a democratic spirit among its students. As the College is chiefly a resident college, students and faculty comprise a closely knit community in which extracurricular and social activities play a considerable role in the cultural and intellectual development of the individual. The informal relationship between teacher and student serves to encourage the process of living and learning together. The College believes that one of its major purposes would be to inculcate by means of the several phases of college life the ideals of self-responsibility and good campus citizenship.

The new student at William and Mary is introduced to this life and atmosphere during the orientation period which takes place immediately before the beginning of classes in September. During this period, the honor system, one of William and Mary's contributions to American education, is explained: placement tests are given; and historic Williamsburg, the restored Colonial city, is explored through the cooperative hospitality of Colonial Williamsburg. Thus the new student becomes an integral part of a great institution of learning, making new friends among members of his own and other classes, the faculty, and administrative officers.

Naturally and imperceptibly the student becomes a part of the democratic life of William and Mary, which encourages the exchange of friendly greetings with other students, members of the faculty, and visitors to the College. This spirit permeates the classroom as well, for the new student finds his instructors and the administrative staff ready and willing to assist him through their experience and human understanding.

Community life is important at William and Mary, since the majority of students live in sixteen residence halls, four of which are for women and twelve for men. The eleven fraternities maintain essentially nonresidential lodges and the nine sororities provide housing for part of their membership. While these organizations make prominent contributions to the life of the College, an

adequate social life is available to non-members in many functions and activities sponsored at the College. At William and Mary, residence life is particularly attractive. The use of leisure is provided for in the Residence Halls by recreation rooms, study rooms, and lounges, which contain easy chairs, books, magazines, newspapers, radios, pianos, card tables, and games. As the meeting place of students on the campus, the Campus Center offers an educational and recreational program of events for the College family as well as opportunities for student participation in the presentation of the program. The facilities of the Center include lounges for informal gatherings, a television room, music listening rooms with high fidelity equipment, a reading room, and a cafeteria and refreshment bar, called "The Wigwam." Billiards, bowling, table-tennis, and shuffleboard comprise the games activity. In addition, there are meeting rooms to house various interest groups and clubs as well as a ballroom for dancing. The officers of the various student publications and Student Government are located in the Center. A film revival series, a lecture series, art and craft exhibits, and concerts are presented as a part of the regular Center programming. With an enrollment of most of the states of the Union, the College offers its students an opportunity to widen their horizons further through the exchange of views and customs.

Informal College dances take place occasionally on Saturday nights throughout the session, and formal dances are held at intervals. In addition, dances and other social functions are held by fraternities, sororities, dormitories and other organizations.

Student Government

The constitution of the Student Association of the College of William and Mary provides for an Executive Cabinet and Assembly whose powers extend to all student activities common to both men and women. A separate organization, the Women's Dormitory Association, deals with the dormitory activities and regulations which concern the women solely.

A General Cooperative Committee, consisting of students, members of the faculty, and administrative officers, serves as a clearing house for matters of general concern to the entire College.

Phi Beta Kappa Society

Alpha of Virginia: The Phi Beta Kappa Society, the oldest Greek-letter fraternity in the United States, was founded by a small group of students at the College of William and Mary on December 5, 1776. During the succeeding four years, the number of members increased to a total of fifty, including Captain John Marshall, who subsequently became Chief Justice of the United States, and Elisha Parmele, a graduate of Harvard University. The faith of these youthful scholars in the permanence and future greatness of their society was shown by their preparation of charters for branches in other colleges. Two such charters were entrusted to Elisha Parmele, who brought about the establishment of chapters at Yale in 1780 and at Harvard in 1781.

The original society at the College became inactive in 1781, with the closing of the College because of the approach of the army of Cornwallis. It was revived in 1851 with the blessings of an aged founder, William Short, and continued until early in the War Between the States. In 1893 the Alpha of Virginia Chapter was revived once again, and it has continued since that time as an active and significant element in the educational program of the College.

At present there are approximately 160 chapters of Phi Beta Kappa located at the leading educational institutions of the United States, with a membership in excess of 120,000. Members of the local chapter number more than 1,000 persons; in addition, a number of faculty members who were elected to Phi Beta Kappa at other institutions serve actively as affiliated members of Alpha of Virginia. Senior students up to 10 per cent of the total number in the class are elected each year, largely on the basis of scholarship, as members in course. From the alumni of the College of at least ten years' standing who have attained distinction in their professions, Alumni members are elected from time to time. Less frequently, honorary members and faculty members who are not graduates of the College are elected to membership.

Honor Societies and Special Interest Groups

Omicron Delta Kappa is an honorary society whose membership is elected annually from the junior and senior men on the basis of eminence in the fields of scholarship; athletics; social and

religious activities; publications; forensic, dramatic, musical, and other cultural activities.

Mortar Board is a woman's honorary society whose members are elected in their junior year on the three-fold basis of service, scholarship, and leadership. It endeavors to serve the College each year by fostering scholarship, by rendering its services whenever requested, and by encouraging a wholesome college atmosphere.

There are eight honorary societies devoted to furthering interest in special fields of learning. Members of these groups are elected on the basis of scholastic proficiency in the departments concerned. In addition, many students find opportunities for friendly and stimulating associations in the various special interest groups and departmental clubs devoted to such fields of endeavor as literature, philosophy, drama, debating and the several fields of science. Among the enterprises sponsored by these groups are the annual "Open House" demonstrations of the Departments of Biology, Chemistry, Physics and Psychology.

Fraternities

Since the first Greek letter fraternity was founded at William and Mary in 1776, the College has had an unparalleled heritage as a background for its fraternity life. The passage of time, with its accompanying changes in customs, and the opening of the College to women students, has changed and expanded the fraternity sphere of influence. Today the fraternity provides not only a source of good fellowship, but also fills many other needs in the college community.

The fraternities at William and Mary have implied standards of social deportment which are instilled into each fraternity man, and which help to prepare him for his post-college relations with others in his community. Fraternity intramural athletics allow a much wider participation in competitive sports than can be permitted by varsity competition. A definite criterion of scholarship is established which all men must meet before they are allowed to join any fraternity. Each semester the President of the College awards a cup to the fraternity which has achieved the highest scholastic standing for the preceding semester.

The fraternities are under the control of an Interfraternity Council. There are chapters of eleven social fraternities on the

campus: Theta Delta Chi, Sigma Alpha Epsilon, Pi Kappa Alpha, Kappa Alpha, Kappa Sigma, Phi Kappa Tau, Lambda Chi Alpha, Pi Lambda Phi, Sigma Pi, Sigma Nu and Sigma Phi Epsilon. An Alumni Interfraternity Council, composed of graduate representatives of the several fraternities, acts in an advisory capacity. This organization makes an annual award to the outstanding fraternity based upon the criteria of scholarship, leadership, varsity athletics, intramurals and community relations.

Sororities

There are eight chapters of national sororities at the College. In 1921 Chi Omega was founded followed by Kappa Alpha Theta, Kappa Kappa Gamma, Pi Beta Phi, Alpha Chi Omega, Kappa Delta, Delta Delta Delta, and Gamma Phi Beta. The affairs of the sororities are administered and regulated by a chapter of The National Pan Hellenic Council.

Each sorority carries out its respective national principles in the general realms of social congeniality, moral and mental standards, development of leadership, cooperation and service, and in stimulating interest in vocations as an outlet for creative abilities. Each sorority has local as well as national philanthropies to which it contributes. Each semester the President of the College awards a cup to the sorority which has achieved the highest scholastic standing for the preceding semester.

The sorority houses, owned by the College, each accommodate between 15 and 20 women, usually juniors and seniors, under the College status of a "small residence hall."

Publications

The *Flat Hat* is a weekly paper published and edited by the students. It is a chronicle of student life and daily affairs of the College.

The *William and Mary Review*, published at least twice a year by a body of student editors, is the College literary publication. It contains short stories, essays, poems, and reviews. Contributions are welcome from all members of the student body.

The *Colonial Echo* is published annually by a staff comprised entirely of students. This well-illustrated volume is a treasury of current campus life.

The financial administration of all student publications is supervised by the Student Activities Fee Committee which is composed of faculty and student members. The selection of the major editorial and managerial positions of the publications is under the jurisdiction of the Publications Committee.

The William and Mary Theatre

Now in its thirty-eighth year, the William and Mary Theatre is a significant contribution to students as members of the audience or as the participants. The staff is composed of four professionally trained members of the faculty of Theatre and Speech. Participation in all forms of dramatic work is provided to students through courses in the Department of Theatre and Speech and through extra-curricular activity. Tryouts for parts in plays are open to all students, and casting is based on a competitive process with the intent to assemble the best qualified people for public performances. The production crews are basically composed of members of the classes in stagecraft, lighting, and design and costume, but emphasis is also placed on the opportunity for all students to volunteer to serve on committees of buildings, painting, sewing, making of properties, publicity, ushering, and box office management. Every production is a learning process for every one participating.

Annually four full-length plays are presented in public performances. The plays are carefully chosen to provide a variety of entertainment, dramatic experience, and cultural value. Among the plays recently produced are: *Thieves' Carnival*, *The Boy Friend*, *Lysistrata*, *The Diary of Anne Frank*, *The Crucible*, *The Taming of the Shrew*, *The Visit*, *Under Milk Wood*, *Three Penny Opera*, *Shoemaker's Holiday*, *Our Town*, *Lola*, *Death of a Salesman*, and *Richard III*.

Production methods and styles vary from the proscenium and picture-frame stage to open staging and theatre-in-the-round.

A chapter of a national honorary fraternity is made up of members elected from students who become eligible through successful work in the College theatre.

The William and Mary Debaters

The Intercollegiate Debate Council is an organization fostering all phases of debate and forensic activity. Any student

interested in debate, discussion, extempore speaking, oratory, or other forensic activity may join the group.

Under the guidance of the faculty Director of Forensics and the Theater and Speech Department, an extensive program of training and speaking is carried on. Each year debaters from the College participate in about fifteen intercollegiate debate tournaments. Debaters in recent years have traveled to tournaments at the University of Notre Dame, Florida State University, Dartmouth College, New York University, University of Kentucky, University of South Carolina, Georgetown University, University of West Virginia, University of Miami, Northwestern University and several other colleges. The College of William and Mary is affiliated with Tau Kappa Alpha, national honorary forensic fraternity. Outstanding college debaters may qualify for membership in this group.

The group also sponsors, from time to time, discussion forum meetings, which give to all members of the student body the opportunity to express views on local and national issues. Debaters carry on an extensive program of appearances before local religious groups, civic organizations, and on radio and television outlets in the Richmond and Norfolk areas. Foreign debate teams from Oxford University, Cambridge University, and other English universities are brought to the campus for public debates. William and Mary students have been invited on several occasions to participate in demonstration programs before bodies of the Speech Association of America meeting in convention.

The Marshall-Wythe Debate Tournament is sponsored by the College each February. This event brings to the campus teams from more than twenty colleges and universities from all parts of the United States. The tournament has become known as one of the top meets in the nation, offering both a unique setting and top quality competition.

The program is coordinated with the curricular offerings of the Theater and Speech Department in order to make most effective use of the available means of teaching techniques of effective oral communication which will be of use to students in each of the several areas of concentration.

Lectures, Concerts, and Exhibitions

The cultural life of the William and Mary campus is rich and

varied. Under the auspices of the Committee on Arts and Lectures, the College seeks to provide its students opportunities for enjoying a wide range of experiences in all of the arts by means of public lectures, concerts, films and exhibitions.

As a charter member of The University Center in Virginia, Inc., the College participates in a cooperative Visiting Scholars Program which annually brings to the campus for public lectures, readings and seminars a great many distinguished scholars in all fields of learning, renowned authors and artists, and leading figures in public life.

The William and Mary Concert Series annually offers to students, faculty and area residents, on a voluntary subscription basis, four or five performances by outstanding artists of the professional concert stage. During the 1963-1964 season, for example, the College enjoyed performances by Grace Bumbry (mezzo-soprano); John Browning (pianist); The National Ballet of Canada; The Fine Arts Quartet; and The Charlie Byrd Trio (jazz-guitar ensemble).

Travelling and purchase exhibits in painting, sculpture, architectural design, theatre and industrial arts are shown throughout each year in the Phi Beta Kappa Memorial Hall and the final exhibition annually is devoted to the work of students in the Fine Arts classes.

Musical Activities

The College offers many musical opportunities to the student for pleasure, participation, and cultural enrichment. The student may choose to attend a wide variety of performances of unusual interest selected from the William and Mary Concert Series, faculty and student recitals, and the Collegium Musicum Series. Participation in the College Choir, Chorus, Band, Orchestra, and small vocal and instrumental ensembles is possible for interested and qualified students. The Campus Center, College Library, and Music Department provide facilities for record listening. Faculty and students of the Music Department participate in the William and Mary Theatre presentations of musical productions.

The Music Department, in cooperation with the Committee on Arts and Lectures, presents a series of programs with emphasis on music and performance of special historical interest. Known as the Collegium Musicum Series, it is open to the College and the

community without charge. Programs included this year among others were Karl Wolfram, Lautensaenger; Carl Dolmetsch, Recorders and Vio', and Joseph Saxby, Harpsichord and Piano; and the Richmond Woodwind Quintet.

The William and Mary Choir, a select and mixed group, sings choral literature carefully chosen from among the best available sources. Formal concerts on campus, in the community, and on tour are part of the annual Choir agenda. The William and Mary Chorus, which is a group of women students of the College, provides music for various events on the campus and also appears in formal concerts.

The College Band serves as a dual organization during the academic year. For the football season, the Band performs as a marching unit, and is highlighted in pre-game and halftime shows, pep rallies, and parades, appearing at both home and away games. After the football season, the Band functions as a concert organization, presenting formal and informal concerts on campus and on tour.

The William and Mary Chamber Music Players is an organization devoted to the study and performance of the best in chamber music. The organization consists of a Chamber Orchestra, and smaller ensembles made up from the more advanced players of the orchestra. In addition to the annual spring concert the Chamber Music Players are active in many special performances including plays and dance recitals as well as concerts in the community.

Private instruction is available for interested and qualified students in piano, organ, voice, strings, winds, and harp. The Music Department sponsors a number of student recitals each year in which advanced students are afforded the opportunity and experience of public performance.

Television and Radio

The College operates one of the finest closed-circuit television facilities in the country as well as a 10-watt, noncommercial, FM radio station both located in Phi Beta Kappa Memorial Hall. Radio and television has a two-fold purpose at William and Mary: formal and adult instruction through these media, and curricular instruction of students in the practical application of broadcasts principles.

All students are eligible for participation in the activities of the radio station, WCWM. Students serve on the station as producers, directors, announcers, writers and engineers. Some opportunities are available in the television studios as boom operators, cameramen, and projectionists although participation is normally restricted to students enrolled in the broadcasting and speech courses.

Religious Life

The College of William and Mary, though a Church of England foundation, has been since 1799 entirely nonsectarian. It avails itself fully of the cordial spirit of pastoral oversight which marks the various churches in the small and friendly city of Williamsburg. Many of the students participate in young people's organizations, among which are Balfour-Hillel, the Baptist Student Union, the Canterbury Association, the Channing Forum, the Christian Science Organization, the Lutheran Student Association, the Newman Club, the Wesley Foundation, and the Westminster Fellowship. Representatives of these organizations form the Student Religious Union, which assists in the College chapel services, and sponsors Religion-in-Life events throughout the year.

The College maintains a weekly vesper service in the beautifully restored chapel of the Wren Building. Brief meditations are given by members of the administration, of the faculty and of the student body, as well as by outside speakers. A student leader presides at each service. Attendance at these services is voluntary.

Men's Athletics

In the George Preston Blow Gymnasium, the men's gymnasium, are two basketball courts, a swimming pool, three handball courts, volleyball courts, showers, lockers, athletic administrative offices, a trophy room, and a social room. Cary Field provides for the following facilities: tennis courts, baseball field, stadium for football, track, and field athletics (seating capacity 15,000), practice fields for varsity and freshman football, and space for softball and intramural games.

The intramural sports program which is under the direct auspices of the Men's Department of Physical Education is designed to meet the needs and desires of all students as far as it is

financially and educationally possible. The program evolves from the expressed desires of the students. The intramural director and other staff members of the Physical Education Department act primarily in organizational and advisory capacities.

Provision is made for participation in the following individual and team activities: badminton, basketball, bowling, free throws, golf, handball, horseshoes, softball, swimming, tennis, touch football, track and field, volleyball, and wrestling. League schedules and individual tournaments are arranged for dormitory, fraternity, and independent competition.

The general supervision of intercollegiate athletics for men has been delegated by the President to a faculty committee. The College is a member of the Southern Conference. H. Lester Hooker, Jr., is the Director of Men's Athletics, and Edmund T. Derringer is the Business Manager.

Varsity and freshman intercollegiate teams, under the supervision of a competent staff of coaches who are appointed for the full academic year, are offered the following sports: baseball, basketball, cross country, football, golf, swimming, tennis, and track and field athletics.

Women's Athletics

Sports are conducted by a joint committee of faculty and students. The program of physical education activities for women provides opportunity for intramural competition, interest groups, and limited participation in games with other colleges. Awards for accomplishment are the intramural emblem, varsity monogram, and individual honor awards.

Provision is made for intramural participation in the following activities: archery, badminton, basketball, bowling, fencing, hockey, lacrosse, softball, swimming, tennis and volleyball. Schedules are arranged for dormitory, sorority, and individual competition in groups or teams according to the ability of the participant. Tryouts are held each year for membership in the Synchronized Swimming Club and Orchesis, the dance club.

The Cornelia Storrs Adair Gymnasium provides facilities for fencing, badminton, volleyball, and basketball. The swimming pool and dance studio are located in this building.

The women's athletic fields provide ample space for outdoor activities including archery, hockey, lacrosse, softball and tennis.

SUPERVISION OF STUDENTS AND COLLEGE REGULATIONS

SUPERVISION OF STUDENTS

THE DEANS ENDEAVOR to follow carefully the progress and behavior of every student in College and by personal oversight and advice to insure proper conduct and attention to duties. The social activities of the women students, both within and without the College, are under the direction of the Dean of Women.

Reports showing the standing of students in their classes are sent to parents or guardians at the middle and the end of each semester. Students who in any semester make thirty-three quality points with at least 3 hours of A and at least 9 hours of B and with no grade below C, in academic subjects, and who do not receive a grade of F in required physical education and who make a quality point average of at least 2.0, are placed on the Dean's List for the following semester and are entitled to special privileges.

For guidance at registration each student is assigned a faculty adviser.

STUDENT'S PROGRAM

All students, other than graduate and part-time students, are required to carry the normal program of at least fifteen and no more than seventeen semester hours (counting courses in Physical Education), with the following regular exceptions:

(1) Any student may, with the consent of his adviser, carry eighteen semester hours (counting courses in required Physical Education).

(2) Seniors who can complete the degree requirements by carrying less than the normal program are permitted to carry as few as twelve semester hours.

(3) Veterans who have received credit for military service and who are not required to take Physical Education may be permitted to carry as few as fourteen semester hours in each semester of the freshman year.

Further deviations from the normal program, when warranted by special circumstances, will be permitted by the Committee on

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Academic Status after the registration period; students desiring this permission should apply in writing to the Dean of Men or the Dean of Women. Only to exceptionally able students, however, will the Committee on Academic Status grant permission to carry more than eighteen semester hours.

CLASSIFICATION OF STUDENTS

A sophomore student must have completed at least twenty-four (24) credits in academic subjects, with at least twenty-four (24) quality points. A junior student must have completed at least fifty-four (54) credits in academic subjects, with at least fifty-four (54) quality points. A senior student expecting to graduate in June must have completed eighty-five (85) credits in academic subjects, with at least eighty-five (85) quality points. The social standing of every student is identical with the academic

CHANGES IN REGISTRATION

In order to add a course to or drop a course from the program of courses for which they originally registered, men students must make application for such a change to the Dean of Men, and women students, to the Dean of Women. If the application is granted, the dean will then notify the Registrar of the change. The Registrar, in turn, records the change on the student's registration card and informs the instructor or instructors concerned. *Unless a course change has been made in that manner it has no official standing and will not be recognized as valid by the College.* After the first week of classes in a semester, the only course changes which are permitted by the deans are those initiated by the faculty and approved by the Dean of the Faculty.

WITHDRAWAL FROM COLLEGE

Students who desire to withdraw from College should apply to the Dean of Men or the Dean of Women for permission to withdraw. The permanent record card of any student who withdraws from College without permission from the proper dean will carry the notation "Withdrew unofficially."

It is the policy of the College to allow appropriate credit to students who are required by the Selective Service System or other military organization to withdraw from college during the

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course of a semester to enter military service. The regulations defining this policy are available on request.

CONTINUANCE IN COLLEGE

A freshman must accomplish for the session at least 18 semester credits in academic subjects and earn at least 12 quality points. During the first semester he must pass at least five semester credits of academic work. An upper classman or an unclassified student must accomplish for the session at least 20 semester credits in academic subjects with at least 20 quality points. A student who has completed 4 semesters may not continue in college unless he has accumulated at least 40 semester credits in academic subjects and 40 quality points. A student who has not met the requirement pertinent to his status may not register either in the summer session or in the regular session, except by the advice and consent of the Committee on Academic Status. Finally, when a student is not profiting by his stay at college, or whenever his influence is detrimental to the best interest of the College, such a student may be required to withdraw.

A student who has failed to complete the requirements for the degree of Bachelor of Arts or Bachelor of Science within five years of residence in college will be automatically debarred from further attendance at the College; provided, however, that when a student has been permitted to reduce his schedule below that normally required, the total period of residence permitted for the completion of the degree requirements shall be extended in proportion to the reduction permitted. In the application of this regulation, each nine weeks' summer session will be counted as three-fifths of a semester.

ABSENCE FROM CLASSES AND FROM COLLEGE

An educational system centered upon classroom instruction justifies a set of regulations and procedures to aid in assuring satisfactory class attendance. These attendance regulations are designed by the faculty to limit the number of unnecessary class absences since irregular class attendance jeopardizes the student's progress and detracts both from instruction and from learning. These regulations provide that a large measure of individual

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responsibility be given to students on the Deans' Lists and to those in more advanced courses.

Registration

Students are expected to keep their registration appointments. Unless excused by the Dean of Men or the Dean of Women, students who fail to present themselves at the appointed time for registration will be placed on *absence probation*.

Class Attendance

1. Students are expected to be present at all their regularly scheduled classroom appointments.

2. All absences in 100 and 200 courses are recorded by the instructor. Whenever a student has accumulated a total of one unexcused absence per credit hour, the instructor shall report him to the Dean of Men or the Dean of Women, who will issue a warning to the student. The instructor shall immediately report any subsequent unexcused absence; on the first such absence, the dean will place the student on *absence probation*.

3. Students whose attendance, in the opinion of the instructor, becomes unsatisfactory in 300, 400, and 500 courses and in courses in The Law School, shall be reported to the Dean of Men or the Dean of Women. When such a report has been received, a warning shall be issued by the dean, and if a subsequent unexcused absence be reported in that course, the student will be placed on *absence probation*. Any additional unexcused absence in that course will make the student subject to suspension from the College by action of the Committee on Academic Status. The authority for excusing absences from 300, 400, and 500 courses and from courses in The Law School is the instructor in the course.

4. Students, unless on the Deans' Lists, or unless excused by the Dean of Men or the Dean of Women, who fail to keep their last scheduled classroom appointment in each of their courses preceding and their first scheduled classroom appointment in each of their courses following the Thanksgiving, Christmas, and Spring holiday periods will be placed on *absence probation*.

5. After the completion of one semester of regular college work beyond the one in which the absence probation was incurred, absence probation will be removed.

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A student placed on absence probation under any of the above provisions (whether for absence from a registration appointment, for absence immediately before or after a holiday, or for absence from classes at other times) who, before that absence probation is removed, incurs a second absence probation, shall be subject to suspension from the College by action of the committee on Academic Status, and if suspended, may not apply for readmission until a full semester has elapsed, but a student readmitted after such suspension shall not be considered as being on absence probation.

6. Attendance regulations, with the exception of registration appointments, do not apply to students on the Deans' Lists, or to those students who are enrolled in a course for which they will not claim college credit.

EXAMINATIONS

The examinations, given at the end of each semester, take place at the times announced on the examination schedule, which is arranged by the Dean of the Faculty and posted at least two weeks before the beginning of the examination period. Students are required to take all of their examinations at the time scheduled, unless excused on account of illness or other sufficient reason by the Dean of Men or the Dean of Women. Students should present their reasons for an expected absence to the proper dean in advance of the examination. No excuse on the ground of illness will be accepted unless it is approved by the College physician.

Deferred examinations are provided for students who have been excused by the Dean of Men or the Dean of Women from taking their examinations at the regular time. The deferred examinations for courses in the first semester are given in the fourth week of the second semester; the deferred examinations for courses in the second semester are given during the orientation period in September. Except under very exceptional circumstances students are not permitted to postpone the taking of a deferred examination beyond the first occasion thus regularly provided; and 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. The schedule of the deferred examinations, arranged by the Dean of the Faculty, will be posted several days in advance of the time at which



The President's House



Television Studio, Phi Beta Kappa Hall

William and Mary Band, Concert Style



they are given, and a copy of it will be mailed to each student who is entitled to take a deferred examination.

The College does not authorize re-examinations.

RESIDENCE

All undergraduate students except those coming daily from their homes, are required to live in the College residence halls. Exceptions to this regulation may be granted by the Dean of Students when good reason for so doing exists. Married students may not reside in College residence halls.

All resident students who are classified as freshmen or sophomores are required to board in the College dining hall. For all other students, boarding in the College dining hall is optional.

STANDARDS AND RULES OF SOCIAL CONDUCT

General Statement

Registration as a student at the College of William and Mary implies that the student will familiarize himself with the rules and regulations governing the conduct of students, and that he will abide by such regulations so long as he remains a student at the College.

When students other than day students are permitted to withdraw, or are dropped from the roll, or are suspended, they must forthwith leave Williamsburg and the vicinity. Until this requirement has been fulfilled, they remain subject to the authority of this institution and may be expelled.

Students who have been suspended or required to withdraw for academic or disciplinary reasons may not visit the campus or attend a campus activity without first obtaining permission from the appropriate dean, i.e., the Dean of Men or the Dean of Women.

The College assumes that men and women of college age are able and willing to maintain standards of self-discipline appropriate to membership in a college community. Therefore, the College purposely refrains from promulgating a rigid code of discipline. However, it reserves the right to take disciplinary measures compatible with its own best interest.

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The discipline of the College is vested in the President by the action of the Board of Visitors. Cases involving minor infractions of discipline are handled through the offices of the Dean of Men and Dean of Women, respectively. Serious infractions are considered by the Discipline Committee, which represents administration, faculty, and students. When men and women are jointly involved in misconduct or violations of College regulations, they will be held equally responsible.

Aside from cheating, lying, and stealing, which fall under the Honor System, and infractions of the rules set down by the Women Students' Cooperative Government Association and enforced by the Judicial Committee, the fundamental test for disciplinary action by the College authorities is whether the behavior complained of tends to throw discredit on the name of the College of William and Mary or to manifest undesirable conduct on the part of the students. The College reserves the right at any time to suspend or dismiss a student whose conduct or academic standing is in its judgment unsatisfactory.

Marriage

1. Students Under Twenty-One

Any minor student who marries without the full knowledge and consent of his or her parents will be required to withdraw. Such consent must be obtained in writing by the parents at least a week prior to the marriage.

2. Students Over Twenty-One

A student twenty-one years of age or over must give written notice in advance of his or her intention to marry. Failure to do so may result in dismissal from the College.

Manners and Habits of Living

Manners and behavior that would not be tolerated in the student's home cannot be tolerated in the classroom, the dining halls, or the residence halls. The College highly approves of regular habits of living, and these include hours of rising and retiring that are compatible with regular classroom appointments and regular study habits. Long experience has shown a striking

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correlation between irregular and slovenly habits of living and lack of adequate performance in the classroom.

Students are expected to keep their rooms reasonably neat and tidy at all times. It is also expected that a student's dress and conduct in the dining hall be consistent with that of his home life.

Dress

Maintenance of high standards of personal dress which characterize the women students of the College of William and Mary necessitates the establishment of certain regulations concerning the wearing of sports attire. Shorts, pedal pushers, slacks, dungarees, gym suits, or other such clothing are not to be worn in public or in academic buildings (including the library). Specific regulations concerning the wearing of dungarees or Bermuda shorts outside the residence halls may be found in the Women's Dormitory Association Handbook.

Vandalism and Disturbances

In general, the College strongly disapproves of all forms of vandalism and disturbance. Students who deface property or destroy fixtures will be dealt with summarily. The defacement or destruction of state property is a violation of the laws of the Commonwealth of Virginia. Students who through noisiness or other disturbance continually annoy their neighbors or who participate in riots or mob action will be required to withdraw.

Hazing

Hazing, or the subjection of a student to any form of humiliating treatment, is forbidden. The hazing of students in a state-supported institution is a violation of the laws of the Commonwealth of Virginia.

Alcoholic Beverages

The College wishes to encourage and to promote the highest standards of conduct and personal behavior on the part of William and Mary students. Since the College does not believe in the use of alcoholic beverages by students, a statement of policy is necessary in the interests of the College community.

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The possession or consumption by William and Mary students, or their guests, of alcoholic beverages of any kind, or alcoholic content anywhere on the campus or in any College building, residence hall, sorority house, or fraternity lodge is prohibited; nor may alcoholic beverages of any kind or content be served or consumed at any dance or other social function given in the name of the College or sponsored by any student organization or group. It shall be the responsibility of the sponsoring student organization or group and its officials to enforce this regulation. Violation of this regulation may be punished by loss of social privileges, probation, suspension, or separation from the College.

Participation in Extracurricular Activities and Eligibility for Class Office

Students are required to pass twenty-four semester credits during the previous year before they may represent the College in athletic contests, intercollegiate debate, dramatic productions, or other similar extracurricular activities.

No student shall be eligible to hold a class office unless he is a member in good standing of the class which he seeks to represent.

Public Performances and Parties

No person or group of persons associated with the College of William and Mary shall give either in Williamsburg or elsewhere a public performance of any kind unless prior to the first rehearsal the said person or group of persons shall have obtained from the office of the President permission to present the entertainment. In order to secure permission, those in charge of the performance must make written application to the President of the College.

AUTOMOBILE REGULATIONS

General Statement

By regulation of the Board of Visitors, students are not allowed to have automobiles, except by special permission, which is to be secured from the President through the Dean of Men. When a student has secured special permission to have or operate an automobile, it is expected that the use of the automobile will be limited to the purposes for which the permission is granted.

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Application of the Regulation

1. Except as noted below, no student shall, while College is in session, maintain or operate a motor vehicle in Williamsburg or vicinity.
2. Storing or otherwise keeping an automobile in Newport News or Richmond or other places in this area for occasional use is a violation of this regulation.
3. A student who rides in a car which is used in violation of this regulation will be held equally guilty with the owner or driver.
4. If a student wishes to bring his luggage to the College in an automobile, that automobile must be returned to his home before 6:00 p.m. of the day preceding the day on which classes begin. A student must not bring an automobile to the College unless he can provide for its removal from Williamsburg at that time.

Special Permissions and Exceptions to the Regulation

1. Special Permission

(A) Special permission to have automobiles at the College will be granted to physically handicapped students whose disability makes it necessary that they have access to automobile transportation.

(B) Special permission will be granted to those students who can demonstrate that an automobile at the College is essential to necessary part-time employment in Williamsburg.

(C) Candidates for the Bachelor's Degree at the June Commencement are granted special permission to bring automobiles to Williamsburg on the Friday immediately preceding Commencement day and to keep these automobiles at the College until the conclusion of the session. This special permission does not apply to other students.

2. Exceptions to the Regulation

(A) Married Students and Day Students

The automobile regulation will not be applied to married students whose families are residing in Williamsburg or to day students who commute to the College from their homes.

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(B) Candidates for Master's and B.C.L. Degrees

Students who have been accepted as candidates for the Master's Degree and students who have received the Bachelor's Degree and who are studying for the B.C.L. Degree will be exempt from the regulation.

Registration Requirements

1. Registration of Vehicles

All students having automobiles, including day students, students granted special permission to have automobiles and students exempt from the regulation, must register their cars at the Office of the Dean of Men and at the Office of the Superintendent of Grounds and Buildings and are subject to the Student Motor Vehicle Rules and Regulations.

2. Williamsburg City Tag Requirements

Every student who keeps a car within the City of Williamsburg for 60 days or more (whether consecutive or not; whether an out-of-state car or not; whether owned by him in whole or in part or not) must procure annually a City tag and keep it attached to his car while driving on any public street or alley within the corporate limits of the City. The year is from January 1 to December 31. The cost of the tag is \$10.00 for a full year.

Penalty for Violation of the Regulation

Students who violate the automobile regulation will be subject to dismissal from the College.

STUDENT PERSONNEL SERVICES

HEALTH SERVICE

THE PURPOSE of the Health Service is fourfold: (1) improvement of the health of the students; (2) prevention of diseases; (3) supervision of campus sanitation, which includes inspection of sanitary conditions of cafeterias, dining halls, dormitories, and swimming pools; and (4) instruction of students in matters essential to healthful living.

The Health Service is housed in the David King Infirmary, a modern, fireproof building containing out-patient clinic, dispensary and waiting rooms, diet kitchens, nurses' quarters, and fifty-bed infirmary.

A health certificate is required of all entering students. During each semester, each student is entitled to the use of the Medical Services. The medical services are as follows:

1. Medical care in the Health Service clinic for minor and incipient illness and accidents. Necessary staple drugs and dressings are included.
2. Health consultation service with the medical staff.
3. Special medical examinations for certification of students which is required for participation in intercollegiate athletics and other forms of strenuous activity.
4. A medical examination, by the College physician, of all freshmen, transfer students and students who are reinstated following withdrawal for illness or other cause. Recommendations to the Physical Education Department and to scholastic counselors are then made regarding the physical condition of the student thus enabling him to arrange his program within his physical capacities.
5. Hospitalization in the Health Service infirmary for a limited period, for minor and incipient illness when bed care is advised by the College physician. The College does not, however, assume the cost of special nurses, consulting physicians, surgical operations, X-ray or laboratory tests, care in other hospitals, or special medications. Meals are charged the student at the prevailing dining hall rate.

The College Health Service provides the services listed above, but it lacks facilities for prolonged hospitalization, post-operative care and special diets. Students who require these facilities will be permitted to withdraw from the College for medical reasons without prejudice to their academic records.

THE COUNSELING OFFICE

The Counseling Office offers guidance and counseling in three main areas: Educational counseling—help in selecting the proper courses of study and in establishing effective study habits; vocational counseling—aid in determining the profession or position for which the student is best fitted, or help in choosing the field of study in which the student intends to major; and personal adjustment—assistance in overcoming difficulties in social adjustment, difficulties caused by uncertainties of aims and purposes and other personal problems.

In vocational counseling a testing and information service is provided. Vocational interest and aptitude tests are available to all students who desire help in choosing their major field, or their life work. A file of information on all vocations in which college men and women are interested is maintained.

In addition, the Counseling Office is the center for those tests supervised by the Educational Testing Service, such as the Graduate Record Examination and the Law School Admissions Test, and for the Miller Analogies Test.

BUREAU OF SENIOR AND ALUMNI PLACEMENT

The College maintains a Placement Bureau for seniors and alumni through which nonteaching placements are made. This faculty-sponsored organization helps seniors to obtain employment with business and industrial organizations. At the same time it assists business and industry in obtaining a trained body of men and women. The Placement Office also offers its services to the alumni who are seeking job transfers after they have been out of college a number of years. Frequent requests come from industrial and business concerns for men who are available for employment and who have had experience.

Personnel records of seniors and alumni are made available to professional, governmental and business organizations interested

in employing men and women from the College. The Placement Bureau maintains cordial relationships with many employers and devotes considerable effort each year to placing in permanent positions those students who seek employment. Company representatives are invited to the campus to confer with students and to discuss not only the qualifications necessary for success in their special fields but to explain business opportunities and to make job offers to graduates. In recent times representatives of nationally recognized business concerns have been visiting the campus at the rate of about one hundred per year. These representatives are given every assistance in their recruiting programs. Free services of the Bureau include vocational counsel and personal aid in securing satisfactory positions.

THE SOCIETY OF THE ALUMNI

THE SOCIETY of the Alumni of the College of William and Mary in Virginia was founded in 1842 and incorporated on March 17, 1923. Its purpose is to organize the alumni of the College of William and Mary in one general body, in order to keep alive the memories of college life and promote the welfare of the College. Any alumnus who has completed one regular college semester at the College in Williamsburg and has received honorable dismissal is eligible for membership in the Society. Contributors to The William and Mary Fund are accorded all membership privileges. *The Alumni Gazette*, the official publication of the Society, is sent to all living alumni.

The officers of the Society are: Robert Harvey Chappell, Jr., '48, President; George Dewey Sands, Jr., '39, Vice President; Dorothy Baynham Wilkinson (Campbell), '25, Secretary-Treasurer; James Sands Kelly, '51, Executive Secretary.

The members of the Board of Directors of the Society are: To December, 1964—Alphonse Felix Chestnut, '41, Morehead City, North Carolina; John Nichols Dalton, '53, Radford, Virginia; Robert Stanley Hornsby, '41, Williamsburg, Virginia; Robert Kermit Thomas Larson, '28, Norfolk, Virginia; Otto Lowe, Jr., '55, Fullerton, California.

To December, 1965—Anne Dobie Peebles, '44, Carson, Virginia; E. Cotton Rawls, '27, Stamford, Connecticut; George Dewey Sands, Jr., '39, Williamsburg, Virginia; Kathryn Leigh Chiswell (Sweeney), '35, Lynchburg, Virginia; Walter Joseph Zable, '37, San Diego, California.

To December, 1966—Dorothy Baynham Wilkinson (Campbell), '25, Winston-Salem, North Carolina; Robert Harvey Chappell, Jr., '48, Richmond, Virginia; Nancy Jane Grube (Williams), '46, Bethesda, Maryland; Harry Day Wilkins, '24, Cape Charles, Virginia; Dixon L. Foster, '44, Irvington, Virginia.

The members of the Alumni Board of Trustees of the Alumni Endowment of the College of William and Mary are: Edward Nelson Islin, '25, Newport News, Virginia; Robert Stanley

Hornsby, '41, Williamsburg, Virginia; Jay Wilfred Lambert, '27, Williamsburg, Virginia; Robert A. Duncan, '24, Williamsburg, Virginia. Ex-officio—The President of the Society of the Alumni.

Fred L. Frechette, '46, is the editor in association with James S. Kelly of *The Alumni Gazette*.

The alumni office is located in The Brafferton.

FEES AND EXPENSES

THE COLLEGE RESERVES THE RIGHT TO MAKE, WITH THE APPROVAL OF THE PROPER AUTHORITIES, CHANGES IN TUITION AND OTHER FEES AT ANY TIME.

Payment of Accounts

Principal fees, and room and board fees are payable in advance by the semester, remittance being made by check drawn to the College of William and Mary. The College has a special payment plan for those who are unable to pay the entire semester account by the date of registration. Information concerning the plan may be obtained by writing the Treasurer-Auditor's Office. Failure to meet the payments when due results in automatic suspension of the student from the College until the account has been brought up to date.

Students will not be allowed to complete registration unless their registration cards have first been approved by the Treasurer-Auditor's Office. This preliminary procedure can be accomplished by mail and should be completed upon receipt of the student's statement of account.

Students who present themselves for registration without making preliminary arrangements must be prepared to pay their accounts in full. Otherwise, their registration will be delayed until satisfactory arrangements have been made.

First semester accounts or first payments on accounts under the special payment plans are *due on or before September 5*. Second semester accounts are *due on or before January 15*.

Refunds to Students Withdrawing

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

1. A student withdrawing within a period of five days after the scheduled registration period is entitled to a refund on charges except that \$10.00 shall be retained by the College to cover the expense of registration. (These refunds shall not include any

deposits or advance payments that may have been required by the College as evidence of the student's intention to enroll, or the amount of \$12.00 charged for board for students who attend the orientation period.)

2. A student withdrawing at any time within the first 30 days after the scheduled period of registration shall be charged 25 per cent of the semester's room rent and fees.

3. A student withdrawing at any time within the second 30-day period after the scheduled registration shall be charged 50 per cent of the semester's room rent and fees.

4. A student withdrawing at any time after 60 days following the date of registration shall be charged the full semester's room rent and fees.

5. No refunds of fees or room rent will be made to a student who has been required to withdraw by the College regardless of the date of withdrawal.

6. No refund of room rent will be made to a student who has been required to withdraw from a dormitory because of marriage.

7. In cases of withdrawal from College, charges for board will be calculated on a pro-rata basis.

Credits on Accounts of Scholarships Holders

Students holding scholarships are required to pay all fees less the value of the scholarship which they hold.

Students holding scholarships (except Merit Award Scholarships) and student positions must board in the College dining hall and room in College-owned dormitories.

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' personal expenses but the Treasurer-Auditor's Office is

prepared to cash checks up to \$25.00. All such checks should be made payable to the student or to cash. Under our regulations as a State institution, we are not permitted to cash checks made payable to the College of William and Mary.

FEES AND OTHER EXPENSES

Tuition and General Fee (\$176.00 per semester for State Students and \$361.00 for Out-of-State Students) is a payment towards the general maintenance and operating costs of the College including recreational and health facilities. (Board, room and laundry are additional.)

The Act affecting residency is as follows:

“Be it enacted by the General Assembly of Virginia, That no person shall be entitled to the admission privilege, or the reduced tuition charges, or any other privilege accorded by law only to residents or citizens of Virginia, in the State Universities, Colleges and other institutions of higher learning unless such person has been a bona fide citizen or resident of Virginia for a period of at least one year prior to the commencement of the term, semester, or quarter for which only such privilege or reduced tuition charge is sought, provided that the governing boards of such institutions may require longer periods of residence and may set up additional requirements for admitting students.”

Laundry Fee

The fee (\$16.00 per semester) covers the laundry requirements of the average student and is required of all students living in dormitories, sorority houses and fraternity lodges.

Board

The College operates a large cafeteria and a snack bar, together seating over 800 persons. The dining halls are not operated for profit.

All students who are officially classified as freshmen and sophomores and who are dormitory residents (including residents of the College-owned sorority houses and fraternity lodges) will be charged for board at the rate of \$225.00 per student per semester for the period beginning on September 13, 1964. (Students

entering for the orientation period beginning September 13, 1964, will be charged an additional \$12.00.) Board is payable in advance unless special arrangements are made with the Treasurer-Auditor's Office.

Each student will be issued a Dining Hall Card which entitles that student to three meals daily for a period of approximately 120 days during the semester. The Christmas recess during the first semester and the spring recess in the second semester are not included in the 120 days for which board is charged.

The Dining Hall Card will not be usable in the Wigwam (Coffee Shop).

The daily menus afford a choice of salads, desserts and beverages. There is no choice of entrees or vegetables served at each meal except on Friday.

It shall be optional with students not living in dormitories and students other than freshmen and sophomores whether they board in the College Dining Hall. They may elect to board by the semester in the Dining Hall in which case the charge for board will be \$225.00 per student per semester of approximately 120 days, or they may purchase a monthly Dining Hall Card for \$58.00 which will entitle the holder to three meals per day for a thirty-day month.

In cases of withdrawal from the College, the student will be given a refund calculated on a pro-rata basis determined by the date of official withdrawal, provided the Dining Hall Card is surrendered to the Treasurer-Auditor on this date.

Owing to uncertain conditions prevailing with respect to the cost of food supplies and of food service, the College reserves the right to change its rates for board at any time throughout the year to meet such additional costs.

Room Rent

Men: Room rent in the men's dormitories varies from \$55.00 to \$165.00 per semester depending on the size of the room, location, bath, etc.

Women: Room rent in the women's dormitories varies from \$100.00 to \$165.00 per semester depending on the size of the room, location, bath, etc.

ESTIMATE OF SEMESTER EXPENSES

	<i>Low</i>	<i>Medium</i>	<i>High</i>
Board	\$225.00	\$225.00	\$225.00
Tuition and General Fee (State Student) ¹	176.00	176.00	176.00
Room Rent	55.00	85.00	165.00
Laundry	16.00	18.00 ²	20.00 ²
	<hr/>	<hr/>	<hr/>
Totals	\$472.00	\$504.00	\$586.00

INCIDENTAL EXPENSES

It is impossible to estimate the exact cost to students of clothing, travel and incidental expenses. These are governed largely by the habits of the individual. The College endeavors to cultivate frugality on the part of the students, and equally to minimize temptation to extravagance. The size of Williamsburg aids materially in this matter by not subjecting the students to the diversions of a larger city. As the demands for extra money are small, parents are advised to furnish only a small sum.

The cost of books depends somewhat on the courses taken, but will seldom be less than \$75.00 a year and does not usually exceed \$95.00 a year.

Money for books cannot be included in checks covering college expenses; books should be paid for in cash or by separate check when purchased. Checks for books should be made payable to the William and Mary Bookstore.

NON-RECURRING FEES

Application fee	\$10.00
Room deposit	25.00
Room change fee	5.00
Bachelor's diploma	7.50
Master's diploma	10.00
Academic costume rent to seniors	5.00

¹For out-of-State students add \$185.00.

²For excess over and above normal requirement.

Application Fee—A non-refundable processing fee of \$10.00 is required with undergraduate freshmen and transfer applications for admission to the College. This fee is not credited to the student's account. Students applying for admission from Christopher Newport and Richard Bland Colleges are excluded from payment of this fee.

Room Deposit—A deposit of \$25.00 is required by the College for a student to reserve a room. This payment is made to the Treasurer-Auditor and is applied on the student's regular college account.

This deposit may be made by students already enrolled at any time after the beginning of the second semester, but *must* be paid before May 1. No rooms will be reserved for students who have not paid their room deposit by the specified date.

The room deposit will be returned only to those students who cannot be accommodated in the dormitories or who cancel their reservations on or before July 1.

Students enrolling for the first time may not make a room reservation deposit until they have been notified of their admission to the College. The room deposit for entering students is not refundable.

Room assignments for women will be made by the Assistant Dean of Women. Room assignments for men will be made by the Assistant Dean of Men. Assignments will be made in order of priority of application.

Room Change Fee—Students are given two weeks to become settled in their rooms. Changes after this period will only be permitted after the payment of \$5.00.

Diplomas—The charge for the Master's diploma is \$10.00, and the charge for the Bachelor's diploma is \$7.50. These fees are payable at graduation.

Academic Costumes—Both senior and graduate students are furnished an academic costume at the cost of \$5.00. This fee is payable at graduation.

ADMISSION TO THE COLLEGE

BY ACT OF THE General Assembly of Virginia, men and women are admitted to the College on the same conditions.

Applicants for admission must present their applications on printed forms obtained from the office of the Dean of Admissions. While priority of application does not guarantee selection, candidates should plan to apply before December 1. Assignments to rooms are made after selection for admission, in the order of date of application for admission.

The first selection of applicants will be made as soon as practicable but not later than March 31. Candidates will be notified of the action of the Committee on Admissions as soon after the completion of their applications as is feasible.

THE SELECTIVE PROCESS OF ADMISSION

The essential requirement for admission to the College of William and Mary is graduation in the upper half of the class from an accredited secondary school, with a minimum of sixteen units or the equivalent of this requirement as shown by examination. Candidates for admission from secondary schools requiring more than the normal four years for graduation may be accepted when their transcripts show the full equivalent of graduation from a four-year secondary school in the upper half of the class.

Since the number of applicants who meet the essential requirement is considerably in excess of the number that can be admitted, the College selects those who present the strongest qualifications in scholarships, character, and breadth of interests.

The high school record, the recommendation of the principal, test scores and such other sources of information as may be available will be utilized in determining the applicant's fitness for selection.

Scholarship

Evidence of superior achievement in the secondary school is considered of prime importance in determining selection for admission. High rank in the graduating class will be taken as presumptive evidence of superior scholarship and will weigh heavily in the applicant's favor.

Although the College does not prescribe specifically the high school units to be presented, preference will be given to candidates who present at least four units in English, three in a foreign language (ancient or modern), or two in each of two foreign languages, two in history, three in mathematics, and two in science. The remainder of the sixteen units should consist of additional credits in these preferred subjects.

Personal Qualifications and Ability to Adjust

Evidence of good moral character and of such traits of personality as will make for desirable adjustment to the College will be considered of importance comparable to the student's academic achievement; such characteristics as determination, enthusiasm, self-discipline, imagination and ability to work with others are important, and it is understood that these terms necessarily deal with intangibles. In general, however, the student whom the College desires to enroll is the person of genuine intellectual ability and moral trustworthiness; in addition, he or she should possess the qualities that will make for friendly and congenial relations in the College group. Recommendations from alumni may be requested when the College deems them necessary. Also, other references may be asked to supply information pertinent to the character and other qualifications of the candidate.

Performance in Extracurricular Activities

A record of interested participation in extracurricular activities when accompanied by good achievement in the field of scholarship increases the likelihood of the applicant's selection. The Committee, therefore, takes into account the participation of the candidate in such fields as publications, forensics, athletics, and the arts.

Tests of the College Entrance Examination Board

All candidates for admission to the freshman class of the College of William and Mary must take the Scholastic Aptitude Test of the College Entrance Examination Board. For information concerning testing dates and testing centers, candidates should inquire at their high school guidance offices or write to The College Entrance Examination Board, Box 592, Princeton, New Jersey, or Box 27896, Los Angeles 27, California.

The College prefers that candidates take the test in May or July preceding their final year in secondary school; however, scores from a test taken early in the senior year will be acceptable. No minimum scores are required on this test and the results are used with other information in assessing the applicant's total record.

Interviews

Interviews are not usually required and are used primarily for general information purposes. If after reviewing the record of an applicant, the Committee on Admissions desires additional information, an interview may be required by an alumnus or a member of the Admissions staff. Unless the interview is specifically requested by the Dean of Admissions, the fact that the applicant is unable to talk with a member of the Admissions staff will have no bearing on his application. Individuals who plan to visit the College should contact the Office of Admissions in advance in order that a specific time and date can be arranged.

Admission of Transfer Students

In order to admit as large a freshman class as possible, preference is given to those students who wish to enter the College directly from secondary schools; therefore, the admission of transfer students is very limited.

In order to be considered for admission, the applicant must have maintained an overall "C" average in courses taken for credit in other institutions.

No student may be considered for admission to the College (undergraduate, graduate, or law) unless he is, or at the time of departure was, in full academic and social good standing at his previous institution or institutions and unless an official transcript or other communication from said institution indicates this fact and the fact that he is entitled to honorable dismissal.

Veterans of Military Service

Veterans of military service who are applying for undergraduate admission are required to submit form DD-214, indicating that they were released from service under honorable conditions. This form may also be requested from law and graduate applicants.

The Advanced Placement Program

The College participates in the Advanced Placement Program of the College Entrance Examination Board. This program offers to able and ambitious students, who have a strong preparation, the opportunity to qualify for advanced placement and credit in Biology, Chemistry, English, History, Latin, Mathematics, Modern Languages and Physics.

Successful candidates for admission who wish to be considered for advanced placement and credit should take the Advanced Placement Tests of the College Entrance Examination Board and have these scores reported to the College. After consideration of the test papers and other evidence concerning proficiency in the subject area, the student will be informed of the decision of the department concerned regarding advanced placement and credit. Students who are successful in gaining advanced placement and credit will be provided with more time than normal to pursue courses in areas related to his field of concentration or in other areas of interest, rather than the repetition of courses in which proficiency has been established by work on the secondary school level.

ADMISSION TO GRADUATE STUDY

Application forms for admission to graduate study should be requested from the office of the Dean of Admissions, or from the Chairman of the Department concerned. Beginning graduate students are accepted for September and February of each year.

Students are admitted either to regular graduate status or to unclassified status. All applications for admission to graduate status are subject to the recommendation of the head of the department in which the applicant plans to do his major work and approval of the Committee on Graduate Studies, except in the case of organized schools in which instance the applicant must be approved by the school involved.

Evidence of good moral character and of such personality traits as will make for a desirable adjustment to the College will be considered of comparable importance to the student's academic achievement. An interview with an official or an alumnus of the College may be required. Recommendations by officials at a

candidate's undergraduate college will be required and these recommendations will be considered carefully when the candidate's application is reviewed.

Graduate Record Examination

Applicants for admission to regular graduate status may be required to take the Graduate Record Examination. Applicants will be notified by the department concerned, if the examination is to be required. Information about this test may be obtained from the Educational Testing Service, Princeton, New Jersey.

Degree of Master of Arts

The admission requirements for the degree of Master of Arts are as follows:

- I. The applicant for admission to graduate study must have completed the requirements for a Bachelor's degree in an institution of approved standing. He must have achieved a quality point average of 1.5 or its equivalent, and must have the recommendation of the head of the department in which he intends to do his major work (the department head may also request specific exceptions to the 1.5 average in the admission requirement). All applications are subject to approval by the Committee on Graduate Studies.
- II. Graduate work taken prior to admission to candidacy will be credited toward the M.A. degree only with the approval of the Committee on Graduate Studies.

ADMISSION TO THE LAW SCHOOL

Application forms for admission should be requested from the Dean of the Marshall-Wythe School of Law. Applicants will be sent the usual forms which should then be completed and returned. Beginning students in law are accepted in September and February of each year.

Applicants must have at least a 1.3 quality point average or its equivalent in their over-all undergraduate work (A—3 points, B—2 points, C—1 point, D—0 points), and a satisfactory score in the Law School Admission Test.

All candidates for the Bachelor of Civil Law degree must have received a Bachelor's degree from an approved college or university.

Within the discretion of the faculty of the School, persons of exceptional promise who fail to meet the above requirements may be admitted as special students and may take subjects in Law approved by the Dean of the School.

Students of academic junior standing who have completed one-half of the work and who have earned one-half of the quality points required for a baccalaureate degree within a period not exceeding five semesters may take a limited amount of work for business law or elective credit (but not for law credit), with the consent of the Dean of the School.

Combined Six-Year Program

Undergraduate students who have completed three-fourths of the work in quantity and quality required for a baccalaureate degree within a period not exceeding seven and one-half semesters may take courses in law for credit toward fulfillment of the requirements for the baccalaureate degree. Students who have completed such work at another approved college or university may be considered for admission as transfer students to engage in this six-year combined program and take courses in law for such credit. Upon earning the baccalaureate degree at William and Mary with the requisite 1.3 quality point average and satisfactory Law School Admission Test score, the graduate may then apply for admission as a candidate for the Bachelor of Civil Law degree with advanced standing, receiving credit toward the fulfillment of the requirements for that degree for the law work successfully undertaken in his senior undergraduate year at William and Mary. Thus, in the pursuit of this program, the student may receive simultaneous credit toward fulfillment of the requirements of both the baccalaureate and law degrees for the work successfully completed in his undergraduate senior year.

Combined Six-Year Program in Conjunction with Other Approved Colleges

Undergraduate students of other approved colleges and universities which would give credit toward fulfillment of the requirements of the baccalaureate degree granted by such other

institutions for the time in residence and work successfully completed at William and Mary may also participate in the combined six-year program. Students who have completed three-fourths of the work in quantity and quality within three-fourths of the maximum time permitted for the earning of the baccalaureate degree conferred by such other institution may be considered for admission as unclassified students to take courses in law for such undergraduate credit as the other institution may allow. Upon earning the baccalaureate degree of such other approved college with the equivalent of the William and Mary 1.3 quality point average and satisfactory Law School Admission Test score, the graduate may then petition to have his status changed to that of candidate for the Bachelor of Civil Law degree with advanced standing, receiving credit toward fulfillment of the requirements for that degree for the law work previously completed at William and Mary.

Transfers From Other Law Schools

Students from law schools approved by the American Bar Association who have received a baccalaureate degree and who are in good standing may apply for admission to this school as transfer students. If admitted, credit will be given for work done at other approved law schools not to exceed sixty semester hours provided such work has been of a quality well above passing.

Law School Admission Test

All applicants are required to take the Law School Admission Test which is given four times a year at various centers in the United States. The score secured on this test affords evidence of the applicant's aptitude for law study and is useful for counseling him as to his work. The results of such a test must be considered along with the applicant's personality traits; for such characteristics as courage, determination, enthusiasm, self-discipline, and ability to work with others are as important as natural ability. Information about this test may be obtained from the Educational Testing Service, Princeton, New Jersey. It is advisable that students pursuing the six-year combined program take this test before taking law courses in their senior year. The test must be taken prior to admission as a candidate for the Bachelor of Civil Law degree.

Other Factors

As in the case of undergraduate admission, evidence of good moral character and the ability to make a desirable adjustment to the College will weigh heavily in the consideration of applications for the Law School. An interview with an officer of the College or an alumnus of the College may be required. Recommendations by officials at a candidate's previous college will be secured by the Dean of the Law School, and these recommendations will be considered carefully when the candidate's application is reviewed.

REQUIREMENTS FOR DEGREES

THE DEGREES conferred in course are Bachelor of Arts (A.B.), Bachelor of Science (B.S.), Bachelor of Civil Law (B.C.L.), Master of Arts (M.A.), Master of Education (M.Ed.), Master of Arts In Teaching (M.A.T.), and Master of Law and Taxation (L.T.M.).

The requirements for degrees are stated in terms of "semester credits" which are based upon the satisfactory completion of courses of instruction. One semester credit is given for each class hour a week through a semester. Not less than two hours of laboratory work a week through a semester will be required for a semester credit. A semester is a term of approximately eighteen weeks or one-half of the college session.

EVALUATION OF CREDITS FROM OTHER INSTITUTIONS

The credits of students transferring from other institutions will be evaluated only tentatively upon matriculation. The final evaluation of credits earned at any time elsewhere than at this institution will be determined by the quality of work completed at this college. Evaluations of records are not made by the Committee on Degrees until after students have been selected for admission. In general, credits from accredited institutions are accepted provided they carry a grade of "C" or better and are comparable to courses offered at the College. No student may assume that credit will be given for work at other institutions until he has a written statement as to what credit will be accepted. In particular, any student of the College in Williamsburg who proposes to attend a summer session elsewhere must have written permission in advance from the Chairman of the Committee on Degrees in order to insure that the credit may be transferred to the College in Williamsburg. Credits carrying a grade of "D" will not be accepted for transfer to the College of William and Mary. In determining the number of quality points on credits accepted from other institutions which may be counted toward the minimum of one hundred twenty required for graduation, credits of grade "C" or higher will be considered as having a value of "C". Credit

for extension and/or correspondence courses in the field of concentration or for the requirements for the baccalaureate degree shall be limited to one-fourth of the total credit hours required. Normally, no more than sixty-two academic credits will be transferred from colleges accredited to offer only two years of academic work on the college level.

SYSTEM OF GRADING AND QUALITY POINTS

The work of each student in each course in an academic subject is graded A, B, C, D, or F. These grades have the following meanings: A, superior; B, good; C, average; D, passing; F, failing. For each semester credit in a course in which a student is graded A he receives 3 quality points; B, 2; and C, 1. F carries no credit and no quality points. D carries credit but no quality points. The work in required physical education is graded S (satisfactory) or F (failed).

In addition to the grades A, B, C, D, and F, the symbols "G," "I," and "X" are used on grade reports and in the College records. "G" indicates that the instructor has deferred reporting the student's grade. "I" indicates that the student has postponed, with the consent of the instructor, the completion of certain required work other than the final examination. "X" indicates absence from the final examination. "I" automatically becomes F at the end of the next semester if the postponed work has not been completed. "X" automatically becomes F at the end of the next semester unless a deferred examination is permitted by the Committee on Academic Status.

REQUIREMENTS FOR THE DEGREES OF A.B. AND B.S.

The requirements for the degrees of Bachelor of Arts and Bachelor of Science are stated in the succeeding paragraphs under the following headings: I, General Requirements for the Degrees of A.B. and B.S., II, Distribution, Concentration, and Electives. III, Fields of Concentration. IV, Honors Program.

I. GENERAL REQUIREMENTS FOR THE DEGREES OF A.B. AND B.S.

One hundred and twenty-four semester credits are required for graduation. Of these one hundred and twenty-four semester

credits, one hundred and twenty must be in academic subjects and four in required physical education. A minimum of 120 quality points in academic subjects is required.¹

The student must make a minimum quality point average of 1.0 for all courses in the field of concentration for which he receives an official grade.

No degree will be granted by the College until the applicant has been in residence at least one college year and made a minimum of thirty semester credits at the College in Williamsburg. This period must include the last year of the work required for the completion of the degree.

Students transferring from other institutions should expect to spend at least two years in residence at the College.

II. DISTRIBUTION, CONCENTRATION, AND ELECTIVES

The credits required for graduation are to be secured in accordance with the following arrangement:

A. Distribution

The Distribution Requirements are designed to insure that a certain amount of every student's course work will be distributed among each of six different general areas of knowledge. The range of courses which *Bachelor of Science* students may take to satisfy the Distribution Requirements is more limited than that open to *Bachelor of Arts* students as indicated by the separate listings of basic requirements below.²

BASIC REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE

1. English Language and Composition

(Eng. 101, 102, or 103, 104)

6 semester credits

English 201, 202, or Fine Arts 201, 202,

or Humanities 201, 202

6 semester credits

¹"Academic subjects" means subjects other than required physical education.

²An entering freshman may receive a limited amount of credit or advanced placement in certain fields through satisfactory achievement on the Advanced Placement Tests of the College Entrance Examination Board or, in some instances, on other evidence of superior preparation in secondary school. These fields are Biology, Chemistry, English Composition, English Literature, American History, European History, Latin, Mathematics, French, German, Spanish, and Physics. Further information can be obtained from the Dean of Admissions.

2. Ancient or Modern Foreign Language 6 to 14 semester credits
- (a) A student who enters College with *less than two* high school units of a foreign language must acquire *fourteen semester credits in a single foreign language*, ancient or modern. Introductory courses in Greek and Latin meet four hours per week. Introductory courses in French, German, Italian, Russian and Spanish meet five hours per week (4 credits each semester).
- (b) A student who enters with *two* high school units of a foreign language must acquire *twelve semester credits in that same language* beyond the introductory level or *fourteen semester credits in a single new language*.
- (c) A student who, upon entrance, can demonstrate on a placement test the equivalent of a *three-year* high school knowledge of a foreign language must acquire *nine semester credits in that same language* or *fourteen semester credits in a single new language*.
- (d) A student who, upon entrance, can demonstrate on a placement test the equivalent of a *four-year* high school knowledge of a foreign language must acquire *six semester credits in that same language* or *fourteen semester credits in a single new language*.
- No credits will be counted toward the degree for the first semester of an introductory foreign language unless followed by the successful completion of the second semester of that language.*
3. Mathematics or Philosophy 201, 202 6 semester credits
4. Biology, Chemistry, Geology or Physics 10 semester credits
5. Physical Education 101, 102, 201, 202 4 semester credits
6. Economics 201, 202;¹ Government 201, 202;² History 101, 102; or Sociology 201, 202.³ (Any two of these courses) 12 semester credits

¹Freshmen may elect Economics 201, 202.

²Freshmen may elect Government 201, 202 if they have completed a *year course in Modern European History* at either the secondary or college level.

³Freshmen may elect Sociology 201, 202 if they have completed *two units of secondary school preparation in social science courses*, including a minimum of one unit in World History and/or European History, or satisfactory achievement on the Advanced Placement Tests, or with the approval of the head of the department.

BASIC REQUIREMENTS FOR THE BACHELOR OF SCIENCE DEGREE

1. English Language and Composition

(Eng. 101, 102, or 103, 104).....	6 semester credits
English Literature (Eng. 201, 202)	6 semester credits
2. Foreign Language (French, German, Russian¹)

	6 to 14 semester credits
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 - (a) A student who enters College with *less than two* high school units of a foreign language must acquire *fourteen semester credits in a single foreign language*, ancient or modern. Introductory courses in French, German and Russian meet five hours per week (4 credits each semester).
 - (b) A student who enters with *two* high school units of a foreign language must acquire *twelve semester credits in that same language* beyond the introductory level or *fourteen semester credits in a single new language*.
 - (c) A student who, upon entrance, can demonstrate on a placement test the equivalent of a *three-year* high school knowledge of a foreign language must acquire *nine semester credits in that same language* or *fourteen semester credits in a single new language*.
 - (d) A student who, upon entrance, can demonstrate on a placement test the equivalent of a *four-year* high school knowledge of a foreign language must acquire *six semester credits in that same language* or *fourteen semester credits in a single new language*.
No credits will be counted toward the degree for the first semester of an introductory foreign language unless followed by the successful completion of the second semester of that language.
3. Mathematics 6 semester credits
4. Biology, Chemistry, Geology, Physics 10 semester credits

In addition to satisfying the Distribution Requirement in Science, a candidate for the B.S. degree *must take a continuous course in a second and different science* selected from this group in accordance with the requirements of the Department in which the student is concentrating.

¹Owing to limited instructional facilities, enrollment in Russian will be restricted. See page 233 under Russian 101, 102.

5. Physical Education 101, 102, 201, 202 4 semester credits
6. Economics 201, 202;¹ Government 201,
202;² History 101, 102; or Sociology
201, 202.³ (Any two of these courses) 12 semester credits

All students who have completed less than 45 semester credits in academic subjects (except part-time students and students enrolled in pre-professional programs approved by the College) must carry in each semester at least three of the courses (not including Physical Education) which meet these distribution requirements. Unavoidable exceptions to this regulation must be approved by the Committee on Academic Status.

English 101, 102 and Physical Education 101, 102 must be taken in the freshman year. Physical Education 201, 202 must be taken in the sophomore year.

B. Concentration

Before the end of the sophomore year each student shall select a major department in which he shall concentrate during his junior and senior years. The following rules shall govern concentration:

- (a) The whole program of concentration shall represent a coherent and progressive sequence.
- (b) The student in consultation with the head of his major department shall select the courses for concentration. Of these, at least thirty semester credits must be with the major department.
- (c) Each department may require as many as twelve additional semester credits in courses from that department or from other departments.

When a student concentrates in a field in which he has received credit for a distribution requirement, such credit shall be counted in the total field of concentration.

No student shall be permitted to apply toward a degree more than forty-two semester credits in a subject field. The subject fields include: Biology, Business Administration, Chemistry,

¹Freshmen may elect Economics 201, 202.

²Freshmen may elect Government 201, 202 if they have completed *a year course in Modern European History* at either the secondary or college level.

³Freshmen may elect Sociology 201, 202 if they have completed *two units of secondary school preparation in social science courses*, including a minimum of one unit in World History and/or European History, or satisfactory achievement on the advanced Placement Tests, or with the approval of the head of the department.

Economics, Education, English, Fine Arts, French, Geology, German, Government, Greek, History, Latin, Law, Mathematics, Music, Philosophy, Physical Education for Men, Physics, Psychology, Sociology and Anthropology, Spanish, and Theater and Speech.

No student shall be permitted to apply toward a degree more than twenty-one semester credits in technical courses in any one subject field nor in any one department.

Students may apply twenty-seven semester credits in Elementary Education and twenty-four semester credits in Secondary Education respectively toward the A.B. degree.

C. Electives

Of the number of semester credits remaining for the completion of these degree requirements, at least nine semester credits must be chosen from departments other than those in which courses for concentration were selected.

III. FIELDS OF CONCENTRATION

Degree of Bachelor of Arts

The following departments are approved for concentration: Ancient Languages, Business Administration, Economics, Education, English Language and Literature, Fine Arts, Geology, Government History, Law, Mathematics, Modern Languages,¹ Music, Philosophy, Physical Education for Men, Psychology, Sociology and Anthropology, and Theater and Speech.

NOTE: Students planning to concentrate in Modern Languages are required to take six semester credits of Latin or Greek.

Degree of Bachelor of Science

The following departments are approved for concentration: Biology, Chemistry, Geology, Mathematics, Physical Education for Men, Physics and Psychology.

Education (fifteen semester credits for teaching in the secondary school and eighteen semester credits for teaching in the elementary school) should be taken by students planning to teach.

¹The Department of Modern Languages offers concentration in French, German, and Spanish.



Rogers Hall (left), The Library

Campus Center





Living and Study Quarters, William Yates Hall

Bryan Hall, Home of the Marshall-Wythe School of Law



NOTE: The twelve or fourteen semester credits of foreign language required for distribution must be taken in French or German or both by students planning to concentrate in Chemistry, with the exception of those who are preparing for medicine. Further, a reading knowledge of scientific German will be required of those students who wish to meet the minimum standards for professional training in Chemistry (see page 117).

Degree of Bachelor of Civil Law

For the requirements of this degree, see pages 184, 185.

IV. HONORS PROGRAM

The Honors Program provides special opportunities for the intellectual stimulation and development of superior students in certain departments through independent study. Departments participating in the program during the 1963-1964 academic session are Ancient Languages, Economics, English, Government, History, Modern Languages, Philosophy, Physics, Psychology, and Sociology and Anthropology.¹ Students in this program may, as the result of distinguished work, be awarded a degree with "Honors," "High Honors," or "Highest Honors."

I. *Eligibility, Admission and Continuance in the Program*

- A. A student with a cumulative quality point average of 2.0 in academic subjects during the freshman and sophomore years may declare his intention to take honors work at the time of registration for the junior year and will be assigned an adviser by the head of the department in question.
- B. At the beginning of his senior year, a student may be admitted to honors work in a department if he has a quality point average of 2.0 for the academic year immediately preceding and if he has satisfied his adviser and the other members of the department in which he wishes to work that he is an acceptable candidate, and if the department in question has sufficient available staff to provide for his instruction.

¹See pages 100, 127, 156, 170, 174, 236, 250, 266, 276, 287 for specific departmental requirements.

- C. The continuance of a student in the Honors Program is contingent on his maintaining what his major department judges to be a sufficiently high standard of work.

II. *Requirements*

- A. The minimum general requirements for a degree with honors are the following:
 - 1. Satisfactory completion of a course of reading and research supervised by a faculty member designated by the head of the student's major department. Six hours of credit in a course designated 495-496 in each department offering Honors shall be awarded each student satisfactorily completing the program.
 - 2. Satisfactory completion of the degree requirements as specified on pp. 84-87.
 - 3. Presentation of an Honors Essay or completion of an Honors Project acceptable to the major department. This requirement must be met by May 1 of the student's senior year.
 - 4. Satisfactory performance in a comprehensive examination in the field of the student's major interest.

III. *Examining Committee*

- A. Each comprehensive examination shall be set and judged and each Honors Essay or Project shall be judged by an examining committee of not less than three members, including at least one member of the faculty of the candidate's major department and at least one faculty member from another department.
- B. Examining committees shall be appointed by the Dean of the Faculty.

IV. *Standards*

- A. Final determination of a student's standing with respect to honors shall rest with his examining committee. The committee shall take into account (1) the recommendation of the major department, (2) the recommendation

of the major adviser, and principally (3) its own judgment of the comprehensive examination and essay or project.

- B. A minimum grade of "B" on both the comprehensive examination and the essay or project is required for "Honors." The award of "Honors," "High Honors," or "Highest Honors" shall be determined by the student's examining committee.
- C. When a student's work does not, in the opinion of the Committee, meet the minimum requirements for honors, the faculty member supervising the student's Honors work will determine what grade and credit, if any, should be granted.

V. GRADUATE STUDY¹

Degree of Master of Arts

The requirements for the degree of Master of Arts are as follows:²

- I. The head of the department in which the student concentrates will plan and approve the student's program.
- II. A minimum residence period of one regular session or of four summer sessions of nine weeks each is required.
- III. At least twenty-four semester credits of advanced work, of which at least one-half have been earned in courses numbered above 500, with a quality point average of 2.0 are required for the M.A. degree. No credit will be given for any grade below C.
- IV. The student becomes a candidate for the Master's Degree upon recommendation of the department and approval of the Committee on Graduate Studies after completion of a minimum of one semester of graduate work.

¹The College of William and Mary is a Center, selected by The Carnegie Foundation for the Advancement of Teaching, in which the Graduate Record Examination is administered twice a year. This examination, a measure of general knowledge, is optional and may be taken by both graduate and undergraduate students to determine their probable success with advanced work.

²The special requirements for the degree of Master of Arts in Biology, English, History, Mathematics, Physics, Psychology and Taxation are described on pages 105, 156, 175-177, 219, 266-267, 276-277, 195-196. Requirements for the degree of Master of Law and Taxation are described on pages 196-197.

- V. The student must present a thesis approved by the head of the department of concentration and by the student's examination committee. He must register for 560, *Thesis, Hours to be Arranged*, for at least one semester and may repeat this registration. This registration does not alter in any way the 24 credits in course work required for the M.A. degree. The thesis must be submitted in final form for acceptance or rejection two weeks before the student expects to receive the degree. The degree will not be granted until three bound copies have been presented by the student to the Dean of the Faculty.
- VI. An examination covering the entire field of study is required. This examination is conducted by the student's examination committee.
- VII. All requirements for the degree must be completed within a maximum period of six calendar years after commencing graduate study as a candidate for the degree.

NOTE: The student's major professor with two or more members of the faculty, appointed by the Chairman of the Committee on Graduate Studies in consultation with the head of the department in which the student concentrates, will act as his examination committee.

DIVISIONS OF INSTRUCTION

THE FACULTY of the College, for purposes of closer association in such matters as instruction, curriculum, and research, is organized by Divisions as follows:

The Division of Arts and Humanities

Ancient Languages, English Language and Literature, Fine Arts, Modern Languages, Music, Philosophy, Physical Education for Men, Physical Education for Women, Theatre and Speech.

FRANK A. MACDONALD, *Chairman of the Division.*

The Division of Social Sciences

Business Administration, Economics, Government, History, Home Economics, Secretarial Science, Sociology and Anthropology.

HAROLD L. FOWLER, *Chairman of the Division.*

The Division of Natural Sciences

Biology, Chemistry, Geology, Mathematics, Military Science, Physics and Psychology.

WILLIAM G. GUY, *Chairman of the Division.*

COURSES OF INSTRUCTION¹

Ancient Languages

PROFESSOR RYAN (*Head of the Department*). ASSOCIATE
PROFESSOR JONES. ASSISTANT PROFESSOR GOLDEN.
INSTRUCTOR FLOYD

REQUIREMENTS FOR CONCENTRATION

A candidate for the A.B. degree with concentration in Ancient Languages will be expected to take at least 30 credits in Greek and Latin courses, with the majority of these credits in one of the two languages. If the major emphasis is on Greek, at least 6 credits of Latin should be taken; if the major emphasis is on Latin, at least 18 credits beyond the level of Latin 104 should be taken and at least 6 credits of Greek. Whether the emphasis is on Greek or Latin, six hours credit should be taken in Greek 311—Latin 312 (Ancient History) for concentration. The study of a modern foreign language is advised. Prospective teachers of Latin should take Latin 405 (Educ. 403), should complete the requirements in Education for certification, and should prepare themselves in a second teaching field, preferably English or modern language.

DESCRIPTION OF COURSES

GREEK

101, 102. *Elementary Greek*. Continuous course; lectures four hours; four credits each semester. MR. RYAN, MR. GOLDEN, and MR. FLOYD.

The elements of the Greek language with translation of stories and poems from selected readers. Parallel study of aspects

¹Courses of the 100 series are primarily for freshmen, 200 for sophomores, 300 and 400 for juniors and seniors. Courses for the 500 series are intended for graduates students only. Odd numbered courses are ordinarily offered in the first semester but may be offered in the second semester also; even numbered courses are ordinarily offered in the second semester but may also be offered in the first semester.

A continuous course covers a field of closely related material and may not be entered at the beginning of the second semester without approval of the instructor.

(*) Starred courses may be taken only with the consent of the instructor.

(†) Daggered courses may be taken only with the consent of the Chairman of the department concerned.

of Greek civilization and of the legacy left by Greek culture and thought to the modern world.

201. *Representative Prose Writers*. First semester; lectures three hours; three credits. Prerequisites: Greek 101, 102 or equivalent. MR. RYAN and MR. GOLDEN.

The reading of selected passages from such writers as Herodotus, Xenophon, Lysias and Plato, together with continued study of forms, syntax, and composition. A review of the history of Greek Literature through reading in translation. The latter part of this course is spent in preparing the student for the reading of Homer.

202. *Homer*. Second semester; lectures three hours; three credits. Prerequisite: Greek 201 or equivalent. MR. RYAN and MR. GOLDEN.

The reading of selected books of the *Iliad* or the *Odyssey*. A study of Homeric civilization, of the literary qualities of the poems, and of their influence upon subsequent literature.

**Greek Literature Cycle*. Each course one semester; lectures three hours; three credits. MR. RYAN.

The following courses are offered as the needs and wishes of students in the Department in any year may demand. For all of these courses, the completion of Greek 201, 202 or the equivalent is prerequisite. In each course there is a parallel study of some phase of Greek life or thought. Those in the 400 group when supplemented by additional parallel reading may be counted toward the M.A. degree.

301. Philosophy—Plato.

302. New Testament—The Gospels, Acts and Epistles.

403. Historians—Herodotus, Thucydides.

404. Lyric Poetry.

405, 406. The Drama—Aeschylus, Sophocles, Euripides, Aristophanes.

LATIN

101, 102. *Elementary Latin*. Continuous course; lectures four hours; four credits each semester. Students who have ac-

quired two high school units in Latin may not take Latin 101, 102 for credit. MR. JONES.

This course is designed to equip the student with a mastery of the structure of the Latin language, together with an extensive building of vocabulary. There are translations from appropriate texts, including Caesar's *De Bello Gallico*, and parallel study of pertinent aspects of Roman life and history.

103, 104. *Grammar Review, Reading of Prose and Poetry.* Continuous course; lectures three hours; three credits each semester. Prerequisite: at least two units of high school Latin or Latin 101, 102. MR. JONES.

A course for students who have had two years of high school Latin or the equivalent, and for more advanced students who wish to refresh their knowledge with a view of applying it to other subjects. In the first semester (103) there is a review of the elements of the language and the reading of passages from selected authors with emphasis upon Cicero. Parallel study of the history and institutions of Republican Rome. In the second semester (104) there is reading of selected books of Vergil's *Aeneid*. Parallel study of the history and institutions of the Empire; the epic and its influence upon subsequent literature.

201, 202. *Literature of the Republic and the Empire.* Continuous course; lecture three hours; three credits each semester. Prerequisite: three or four units of high school Latin or Latin 103-104. MR. JONES.

The reading of selections representative of the works of the important writers in the periods of the Republic and Empire. The first semester (201) emphasizes Roman comedy and prose; the second semester (202), lyric poetry. Parallel study of literary influences on the literature of subsequent ages.

**Latin Literature Cycle.* Each course one semester; lectures three hours; three credits. MR. JONES and MR. GOLDEN.

The following courses are offered as the needs and wishes of students in the Department in any year may demand. For all these courses, the completion of Latin 201 and 202 or the equivalent is prerequisite. In each course there is a parallel study of some phase of Roman life or thought. Those in the 400 group

may be counted toward the M.A. degree when supplemented by additional parallel reading.

301. Cicero's and Pliny's *Letters*.

302. Catullus and the Elegiac Poets.

303. Cicero's *Orations*.

304. Horace's *Odes* and Martial's *Epigrams*.

305. Roman Comedy, Plautus and Terence.

307. *Roman Private Life*. Designed specifically for prospective teachers. An intensive investigation of all the major phases of everyday life of the Romans as a preparation for teaching the cultural material of first year high school Latin.

308. *Critical Studies in Caesar*. Designed for prospective teachers of second year high school Latin. The content, style, and aims of the *De Bello Gallico*. Study of Caesar's life and of his time. An examination of Roman methods of warfare.

401. Horace's *Satires* and *Epistles*, with emphasis on *Ars Poetica*.

402. The Latin Historians.

403. Cicero's Philosophical Works.

404. The Latin Epic—Vergil, or Lucretius.

*405. *The Teaching of High School Latin*. Either semester; lectures three hours; three credits. (See Education S305.) MR. JONES.

A detailed study of the Latin curriculum appropriate for high-school instruction; including the philosophy of curriculum construction, organization through "Themes" and "Topics," the correlation of a mastery of the elements of language with an understanding of Roman culture and its legacy to the modern world, the selection of reading and supplementary materials, the use of audio-visual methods, and correlation with other fields of study. Lectures and workshop.

Greek-Latin 451. *Proseminar*. Introduction to the tools of classical scholarship. Study of the history of classical philology,

its methods and aims, and an intensive study of classical bibliography. STAFF.

†500. *Special Topics*. Any semester; three credits for each course. STAFF.

Courses of distinctly graduate character. Open from time to time to such candidates for the M.A. degree as are prepared to carry on individual study and research.

A. Seminar in Greek Literature. Intensive study of individual Greek Authors or genres, varying from year to year in accordance with the students' needs;

B. Seminar in Latin Literature. Intensive study of individual Latin authors or genres, varying from year to year in accordance with the students' needs;

C. Satire and the Novel;

D. Palaeography;

E. Problems of Textual Criticism.

CLASSICAL CIVILIZATION

The following courses are offered as being of general cultural value and valuable contributions to the Humanities program of the College. *A knowledge of Latin and Greek is not required*. Some of these courses may be counted to the extent of six semester credits on a concentration in Latin or Greek, but will not absolve the language requirements for a degree. They are open to *sophomores, juniors, and seniors* and, when supplemented by parallel study, may be counted to the extent of three semester credits toward the M.A. degree.

Greek 303. *Greek Civilization and Its Heritage*. First semester; lectures three hours; three credits. MR. RYAN.

An evaluation of the Greek heritage in the modern world, primarily for students who have had neither Greek nor Latin. The mythology and history, the social and economic problems and the literature and art of Greece are discussed and interpreted with

emphasis upon their influence, direct and indirect, on modern civilization and upon their value not only for the better understanding of modern social and economic problems, but also for the fuller appreciation of English literature.

Greek-Latin 306. *Greco-Roman Archaeology and Art*. Lectures three hours; three credits. MR. JONES.

The study—by means of illustrated lectures, readings, and reports—of the nature of archaeological research; of the tangible remains of Greek and Roman civilization and art; of the aesthetic principles underlying their production; and of the influence of Greek and Roman art upon the art of subsequent periods.

Greek-Latin 307. *Our Heritage of Greek and Roman Literature*. Lectures three hours; three credits. MR. JONES.

A survey of chosen masterpieces from the Greek and Roman literatures as a revelation of the thought and culture of Greece and Rome, and of the heritage left by them to the modern world. Lectures and readings in translation. Designed as the first half of a course in foreign literature in translation.

Greek 311, Latin 312. *The Ancient World*. Continuous course; lectures three hours; three credits each semester. MR. RYAN.

Ancient Civilization from prehistoric times to the downfall of the Roman Empire. The first semester deals with the ancient Orient and Greece, up to 338 B.C.; the second semester deals with Alexander, the Hellenistic World, and Rome. This course is the same as History 301, 302.

Greek-Latin 401. *Greek and Latin Epic*. Careful reading, in English, of Homer's *Iliad* and *Odyssey*, Vergil's *Aeneid*, Lucan's *Pharsalia*. Discussion of the character and structure of the classical epic and its influence on European epic and novel. MR. GOLDEN.

Greek-Latin 402. *Greek and Latin Lyric Poetry*. Devoted to the study, in translation, of the major classical lyric poets who have influenced the development of this genre in subsequent literary history. Parallel readings in the theories of lyric poetry and of selected poems showing the influence of classical lyric forms. MR. GOLDEN.

Greek-Latin 403. *Classical Tragedy and Its Influences*. Readings, in English, and discussion of the major works of Aeschylus, Sophocles, Euripides, and Seneca. Parallel readings in the theories of tragedy and of representative works, illustrating the influence of Classical Tragedy on subsequent literary history. MR. GOLDEN.

Greek-Latin 404. *Ancient Comedy and Its Influences*. A study, in translation, of representative works of Aristophanes, Menander, Plautus, and Terence. Parallel readings in the theories of comedy and of representative works illustrating the influence of Ancient Comedy on subsequent literary history. MR. GOLDEN.

HONORS STUDY

495, 496. *Honors*. Continuous course; hours to be arranged; three credits each semester. STAFF.

Students admitted to Honors Study in Ancient Languages will be enrolled in this course during both semesters of their senior year. The course comprises (a) reading and discussion of selected authors in the language of the student's emphasis, Greek or Latin, (b) supervised reading of a special bibliography in the field of the student's major interest, (c) satisfactory completion by May 1, of a scholarly essay, (d) a satisfactory completion of a comprehensive oral examination in the field of Greek and Latin Literature.

Biology

PROFESSORS BALDWIN AND BYRD (*Head of the Department*).

ASSOCIATE PROFESSORS BLACK, BLANK AND PEDIGO.

ASSISTANT PROFESSORS BROOKS, HALL, SPEESE,

TERMAN, AND WELCH. LECTURER HUNKEN.

REQUIREMENTS FOR CONCENTRATION

A minimum of 40 credits is required for concentration in Biology; Biology 101, 102 (10 credits), Biology 301 (4 credits), Biology 401 (4 credits), and Biology 405 or 408 (4 credits), and Biology 420 (1-2 credits) must be included. Chemistry 301-302 is required for concentration in Biology. A maximum of 10 credits (which may include Chemistry 301-302) may be approved in other departments for courses above the 100-level to be completed with a minimum grade of "C". It is recommended that all biology concentrators complete Physics 101-102.

DESCRIPTION OF COURSES

101, 102. *Introductory Biology*. Continuous course; lectures three hours, laboratory three hours, discussion one hour; five credits each semester. MR. R. A. PEDIGO and STAFF first semester; MR. TERMAN and STAFF second semester.

Concepts of modern biology based on molecular and cellular structure; a brief survey of the plant and animal kingdoms relating morphology to physiology; discussions on ecology, organic evolution, and the relation between biological problems and human society.

201. *Comparative Anatomy of Vertebrates*. First semester; lectures three hours, laboratory six hours; four credits. Prerequisite: Bio. 102. MR. M. BYRD.

Phylogenetic study of the development of the different systems of the higher vertebrates. Dissections and demonstrations by the student.

202. *Embryology of Vertebrates*. Second semester; lectures three hours, laboratory six hours; four credits. Prerequisite: Biology 201 or consent of instructor. MR. M. BYRD.

Comparative description and analysis of development in representative vertebrate embryos. Lectures and laboratory on spermatogenesis, oogenesis, and normal development of amphibians, birds, and mammals; lectures and laboratory designed to illustrate the general principles governing growth and development.

206. *Plant Taxonomy*. Second semester; lectures two hours, laboratory six hours; four credits. Prerequisite: Biol. 101, 102. MR. BALDWIN.

Phyletic relationship of flowering plants and of ferns; principles of classification; collection and identification of representative native plants.

*208. *Morphology and Phylogeny of Plants*. Second semester; lectures two hours, laboratory six hours; four credits. Prerequisite: Biol. 101, 102. MR. BALDWIN and MISS SPEESE.

The morphology of representative plants from the various groups is studied in the laboratory and in the field. Some experiments are performed.

210. *Economic Botany*. Second semester; lectures three hours; three credits. Prerequisite: Biol. 101, 102. MR. BALDWIN.

Centers of origin of cultivated plants; the systematic relations, geography, diseases, and economics of various plants, and discussion of their products.

216. *Invertebrate Zoology*. Second semester, lectures three hours, laboratory six hours; four credits. Prerequisite: Biology 101, 102.

The morphology and ecology of representative types of invertebrates are studied in the field and in the laboratory.

301, 302. *Microbiology*. Continuous course; lectures three hours, laboratory six hours; four credits each semester. Prerequisites: Biol. 101, 102, and Chem. 101, 102 for Biol. 301; Biol. 301 for Biol. 302, and organic chemistry recommended. Miss BLANK.

The morphology, physiology, taxonomy, ecology, isolation, and culture of viruses, rickettsiae, bacteria, yeasts, lower "molds," and pathogenic protozoa.

307. *Human Physiology*. First semester; lectures two hours; laboratory three hours; three credits. Suggested prerequisite: Biology 101-102.

Detailed study of the manner in which different organ systems of the human body function.

308. *Human Anatomy*. Second semester; lectures two hours, laboratory three hours; three credits.

Gross and histological study of the human organism with particular emphasis on the neuro-muscular systems as related to physical and health education.

313. *Cytology*. First semester; lectures three hours, laboratory three hours; four credits. Prerequisites: Biology 101, 102; Chemistry 301 recommended. MR. PEDIGO.

Lectures and laboratories deal principally with the morphology of the cell and the preparation of materials for cytological study. An introduction to submicroscopic anatomy, chemistry, and the physiology of the cell is given.

314. *Biological Evolution*. Second semester; lectures three hours; three credits. Prerequisites: Biology 101, 102, one other biology course and consent of the instructor. Introductory chemistry and mathematics are recommended. MR. BROOKS.

Principles of biological evolution. Detailed discussion of natural selection, adaptation, population genetics, isolating mechanisms, and speciation.

401. *Genetics*. First semester; lectures three hours, laboratory six hours; four credits. Prerequisites: Biol. 101, 102. MR. BALDWIN and MISS SPEESE.

Principles of heredity, variation, and evolution, hybridization experiments to demonstrate laws of heredity.

402. *Cytogenetics*. Second semester; lectures two hours, laboratory six hours; four credits. Prerequisite: Biol. 401. MR. BALDWIN and MISS SPEESE.

Components of cells as related to genetics. Preparation and study of chromosomes.

†403. *Problems in Biology*. All semesters; hours to be arranged; credit according to performance. STAFF.

Supervised projects selected to suit the needs of the individual student.

405. *Cellular Physiology*. First semester; lectures three hours, laboratory six hours; four credits. Prerequisites: Biol. 101, 102; Chem. 301, 302. MR. BLACK.

The relationships between submicroscopic anatomy and chemistry of the cell are explored. Experiments dealing with cell-chemistry, permeability, metabolism, and growth are performed.

406. *Experimental Embryology*. Second semester; lectures three hours, laboratory six hours; four credits. Prerequisites: Biol. 102, 202. MR. BLACK.

Lectures and experiments dealing with the mechanisms of fertilization, cleavage, gastrulation, and organ-differentiation in both invertebrates and vertebrates are given.

407. *General Ecology*. First semester; lectures two hours, laboratory six hours; four credits. Prerequisites: General physiology, plant taxonomy, or permission of the instructor. Recommended: Invertebrate zoology. MR. WELCH.

Survey of major biotic communities; factors controlling the relation of organisms to their environment; structure, metabolism, and control of populations, communities, and ecosystems.

408. *General Physiology*. Second semester; lecture three hours, laboratory four hours; four credits. Prerequisites: introductory biology, general physics, and organic chemistry, or consent of the instructor. Recommended: Comparative Anatomy and Invertebrate Zoology. MR. WELCH.

Basic concepts of physiological function in plants and animals: energy metabolism, transport, nutrition, photoreception, and integration.

420. *Senior Seminar*. Both semesters, one credit each semester.

Discussions by the faculty and advanced students of contemporary problems in biology. Seniors will be required to prepare and to present papers. Guest lecturers will present occasional seminars.

MASTER OF ARTS DEGREE IN BIOLOGY

Requirements for the Degree of Master of Arts in Biology

The candidate for the degree of Master of Arts in Biology must meet the following requirements in addition to the general requirements stated on pages 91-92.

1. After consultation with the Biology Department, the student may be required to take undergraduate courses in which his preparation is considered inadequate.
2. The student must demonstrate a reading knowledge of either French, German or Russian, in the subject matter of Biology.
3. Each graduate student shall have a major Professor and Graduate Committee who will be responsible for supervising his thesis and for planning his program.
4. Each candidate must complete an oral comprehensive examination covering his thesis, his major subjects, and matters of general nature pertaining to his field of study. This comprehensive examination shall be given only after the thesis has been submitted to and approved by the examining committee and only after the 24 semester credits have been completed, or in the semester in which these credits will be completed.
5. A minimum residence period of one calendar year is required.
6. In addition to Biology 560 (Thesis), the candidate must successfully complete 24 semester hours in courses numbered 400 or above and must include at least one-half in courses numbered 500 or above, with a grade average of B or better. Upon the approval of his graduate committee, a student may take courses at the 400 or 500 level in the Departments of Chemistry, Physics, Mathematics and Marine Science. All 400 level courses taken for graduate credit must be completed with a grade of B or better.

GRADUATE COURSES

503. *Comparative Animal Physiology*. First semester; lecture three hours; three credits. Prerequisites: one year of organic chemistry and one course in physiology.

A study of the comparative biochemistry and physiology of life processes common to most major groups of animals. Major topics include nutrition, respiration and energetics, excitation and neural coordination, hormonal coordination, movement, osmoregulation, excretion, reproduction and development.

504. *Physiological Research Techniques*. Second semester; laboratory six hours; two credits. Prerequisites: one year of organic chemistry, one lecture laboratory course in undergraduate physiology, and a graduate lecture course in plant or animal physiology.

Basic instruction is given in laboratory techniques used in physiological research. Techniques covered include measurement of gas exchange, colorimetry and spectro-photometry, radiobiology, electronic measurements of biological potentials, centrifugation, microtechnique, and photomicrography. Students undertake research projects in which physiological techniques, design of experiments, use of equipment, and scientific writing are stressed.

506. *Plant Physiology*. Either semester; lecture two hours, laboratory six hours; four credits. Prerequisites: general physiology and organic chemistry or their equivalents.

Principles of plant function are studied using current experimental techniques. Photosynthesis, respiration, transpiration, soil and water relations, physiology of growth and development, and related topics are considered.

507. *Principles of Parasitology*. Either semester; lecture two hours; two credits.

A study of the principles of parasitism, including the physiology, ecology, zoogeography, and evolution of parasites. Special emphasis is placed on the literature of parasitology.

508. *Zoogeography*. Either semester; lecture two hours; two credits.

A seminar-lecture course on the geographical distribution, historical associations and migrations of natural populations of animals.

509. *Topics in Genetics*. Lecture two hours; two credits. Prerequisites: A course in microbiology, genetics and physiology or their equivalents.

Current research advances in several areas of genetics are discussed. Major topics include: Chemistry of the hereditary material, structural and chemical concepts of the gene, mechanisms of transfer of genetic material, natural and experimentally induced mutations, fine structure of genes as determined from studies of recombination, nucleo-cytoplasmic relationships in inheritance, and population genetics.

510. *Biosystematics*. Second semester; lectures three hours; three credits. Prerequisite: Genetics.

Study of morphological and other problems fundamental to systems of classification. Emphasis is placed on population studies, experimental and research methods requisite to an understanding of taxonomy.

511. *Ecology of Natural Populations*. Either semester; lecture three hours; three credits. Prerequisites: A course in Ecology and a course in Physiology.

A study of the stochastic and biological properties of intra-specific aggregations.

512. *Concepts of Synecology*. Either semester; lecture three hours; three credits. Prerequisites: A course in Ecology and a course in Physiology.

A survey of historical and modern concepts concerning the identity, structure, integration, and function of natural communities and ecosystems.

513. *Vertebrate Biology*. First semester; lecture two hours, lab six hours; four credits. Prerequisites: Comparative Anatomy and Embryology.

A study of the evolution, classification, ecology, and morphology of the vertebrate animals. The basic principles relating to

the distribution, speciation and behavior of vertebrates are also considered. Students are required to undertake a research project.

514. *Topics in Evolution*. Either semester; lecture and discussion, two hours; two credits.

A discussion of the current research in evolutionary biology.

515. *Experimental Plant Ecology*. First semester; lecture two hours, laboratory six hours; four credits. Prerequisites: One course each in Plant Taxonomy, Genetics, and General Ecology or their equivalents.

The experimental approach to vegetation analysis and environmental influence on plant growth and evolution.

516. *Radiation Biology*. Second semester; lecture two hours, laboratory four hours; three credits. Prerequisites: General Chemistry, Physics, and Cytology or their equivalents.

An analysis of the physical aspects of radiation as it affects organisms. Introduction to the use of radioisotopes as a research tool.

517. *Problems in Biology*. Any semester; hours and credits to be arranged.

Individual research studies in the areas of Physiology, Developmental Biology, Ecology, Systematic Botany, Genetics, Vertebrate Biology, Microbiology, and Parasitology.

518. *Seminar*. All semesters; hours to be arranged; one credit; required of all Master's degree candidates in Biology.

Discussions of historical and contemporary problems in Biology.

560. *Thesis*. Hours to be arranged.

Business Administration

PROFESSORS QUITMEYER (*Head of the Department*), COREY, KING¹ and QUINN. ASSOCIATE PROFESSORS JONES (*Acting Director, Bureau of Business Research*) and REECE. ACTING ASSISTANT PROFESSOR AUSTIN.

During the first two years the College of William and Mary requires virtually the same program of liberal arts studies for students who plan to concentrate in Business Administration as it does for all other students. The last two years of more specialized work emphasize the field of Business Administration.

The Department of Business Administration cooperates with the Marshall-Wythe School of Law in offering a four-year program in accounting leading to the A.B. degree in Business Administration, a five-year program leading to the degree of Master of Arts in Taxation, and a seven-year program with preparation for both Bar and C. P. A. examinations and Master of Law and Taxation.

The Bureau of Business Research, organized in 1958 under the Department of Business Administration, publishes the *Virginia Business Index Report* reflecting current business and economic activity in the State. It similarly publishes the *Williamsburg Business Index Report*. Special research studies are published periodically.

REQUIREMENTS FOR CONCENTRATION

For concentration in Business Administration at least thirty credits are required in courses in Business Administration. Every student is required to take the concentration core program of courses outlined below. Also, every student is required to choose one of the two special concentration programs, which are accounting and management.

¹On leave of absence, 1963-1964.

CORE CONCENTRATION PROGRAM

	<i>Credits</i>
Principles of Accounting (Bus. 201, 202).....	6
Fundamentals of Marketing (Bus. 311).....	3
Principles and Methods of Statistics (Econ. 331).....	3
Financial Management (Bus. 323).....	3
Principles of Psychology (Psych. 201) or Contemporary Psychology (Psych. 202).....	3
Sociological Theory (Soc. 313) or Human Relations in Administration (Bus. 412).....	3
Business Policy (Bus. 416).....	3
	<hr/> 24

SPECIAL CONCENTRATION PROGRAMS

ACCOUNTING

Intermediate Accounting (Bus. 301, 302).....	6
Cost Accounting (Bus. 303).....	4
Advanced Accounting (Bus. 401).....	3
Federal Taxation.....	3
2-4 credits from Bus. 304, 402, 405, Business Law I, Contracts, Business Law II, or Sales.....	2-4
(Additional credits are needed for C. P. A. purposes.)	
	<hr/> 18-20

MANAGEMENT

Principles of Management (Bus. 327).....	3
Production Management (Bus. 330).....	3
Marketing Problems (Bus. 312) or Sales Management (Bus. 314).....	3
Industrial Psychology (Psych. 303) or Industrial Relations (Bus. 315).....	3
Seminar in Contributions of Liberal Arts to Business (Bus. 428).....	3
Quantitative Analysis (Bus. 418) or Principles and Methods of Statistics (Econ. 332) ¹	3
	<hr/> 18

RECOMMENDED PROGRAM FOR THE FIRST
TWO YEARS

FRESHMAN YEAR

Grammar, Composition, and Literature (Eng. 101, 102 or 103, 104).....	6
Foreign Language.....	6-8
Mathematics, 6 hours ²	6
Biology, Chemistry, Geology, or Physics.....	10
Required Physical Education (Phys. Ed. 101, 102).....	2
	<hr/> 30-32

¹If Econ. 332 is chosen, the student should be sure that at least 30, but not over 42, credits with Business numbers are taken in order to meet the basic 124 credit graduation requirement.

²These credits are a prerequisite to later courses and also meet distribution requirements.

SOPHOMORE YEAR	<i>Credits</i>
English Literature (Eng. 201, 202) or Introduction to Fine Arts (F.A. 201, 202).....	6
Foreign Language.....	6
Principles of Economics (Econ. 201, 202) ¹	6
History of Europe (Hist. 101, 102) or Introduction to Government and Politics (Govt. 201, 202) or General Sociology (Soc. 201, 202).....	6
Principles of Accounting (Bus. 201, 202).....	6
Required Physical Education (Phys. Ed. 201, 202).....	2
	<hr style="width: 10%; margin-left: auto; margin-right: 0;"/> 32

RECOMMENDED PROGRAM FOR THE SECOND
TWO YEARS

A. ACCOUNTING PROGRAM

JUNIOR YEAR	
Intermediate Accounting (Bus. 301, 302).....	6
Cost Accounting (Bus. 303).....	4
Fundamentals of Marketing (Bus. 311).....	3
Principles and Methods of Statistics (Econ. 331).....	3
Principles of Psychology (Psych. 201) or Contemporary Psychology (Psych. 202).....	3
Sociological Theory (Soc. 313) or Human Relations in Administration (Bus. 412).....	3
Nine credits in electives ²	9
	<hr style="width: 10%; margin-left: auto; margin-right: 0;"/> 31

SENIOR YEAR	
Financial Management (Bus. 323).....	3
Advanced Accounting (Bus. 401).....	3
Federal Taxation.....	3
Business Policy (Bus. 416).....	3
2-4 credits from Bus. 304, 402, 405, Business Law I, Contracts, Business Law II, or Sales.....	2-4
14-18 credits in electives.....	14-18
	<hr style="width: 10%; margin-left: auto; margin-right: 0;"/> 30-32

¹These credits are a prerequisite to later courses and also meet distribution requirements.

²Elementary Programming (Math. 330) is urged as an elective one-credit course.

B. MANAGEMENT PROGRAM

JUNIOR YEAR

	<i>Credits</i>
Fundamentals of Marketing (Bus. 311).....	3
Marketing Problems (Bus. 312) or Sales Management (Bus. 314).....	3
Principles and Methods of Statistics (Econ. 331).....	3
Sociological Theory (Soc. 313) or Human Relations in Administration (Bus. 412).....	3
Financial Management (Bus. 323).....	3
Principles of Psychology (Psych. 201) or Contemporary Psychology (Psych. 202).....	3
Principles of Management (Bus. 327).....	3
Industrial Psychology (Psych. 303) or Industrial Relations (Bus. 315).....	3
Production Management (Bus. 330).....	3
Principles and Methods of Statistics (Econ. 332), if Econ. 332 is chosen rather than Bus. 418.....	0-3
0-3 credits in electives, depending on whether Econ. 332 is taken ¹	0-3
	30

SENIOR YEAR

Business Policy (Bus. 416).....	3
Quantitative Analysis (Bus. 418) unless Econ. 332 is chosen.....	0-3
Seminar in Contributions of Liberal Arts to Business (Bus. 428).....	3
3 other Business credits.....	3
18-23 credits in electives ²	18-23
	30-32

DESCRIPTION OF COURSES

201, 202. *Principles of Accounting*. Continuous course; lectures two hours, laboratory two hours; three credits each semester. MR. AUSTIN, MR. QUINN, and MR. REECE.

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

301, 302. *Intermediate Accounting*. Continuous course; lectures three hours; three credits each semester. Prerequisites Bus. 201, 202. MR. QUINN.

¹Elementary Programming (Math. 330) is urged as an elective one-credit course.

²The student should be sure that at least 30, but not over 42, credits with Business numbers are taken in order to meet the basic 124 credit graduation requirement.

An analysis of balance sheets and profit and loss statements, together with the theory of valuation underlying the various accounts used in these statements.

303. *Cost Accounting*. First semester; lectures four hours; four credits. Prerequisites: Bus. 201, 202. MR. QUINN.

The fundamentals of job order, process, and standard cost accounting and cost and profit analyses for decision-making purposes are taught through the use of problems.

304. *Auditing*. Second semester; lectures three hours; three credits. Prerequisites: Bus. 201, 202 and 301, or permission of the instructor. MR. REECE.

This course is designed to give the student a working knowledge of auditing procedures through the application of auditing principles. Standards and ethics of the public accounting profession are emphasized as is the preparation of audit reports.

309. *World Resources*. Both semesters; lectures three hours; three credits. Prerequisite: junior or senior standing or permission of the instructor. MR. QUITMEYER.

This course relates the forces of natural environment to world patterns of production and exchange with consideration of the roles played by selected commodities and other resources in world economic organization.

311. *Fundamentals of Marketing*. First semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202. MR. AUSTIN and MR. QUITMEYER.

A study of the role of marketing in business and the economy. Emphasis is on the examination of functions, institutions, and policies.

312. *Marketing Problems*. Second semester; lectures three hours; three credits. Prerequisite: Bus. 311. MR. AUSTIN.

An examination of marketing problems encountered at all levels of distribution. Cases are used to emphasize analysis and decision-making.

314. *Sales Management*. Second semester; lectures three hours; three credits. Prerequisite: Bus. 311. STAFF.

An examination of the management of the sales effort in the business organization. Emphasis is given to sales organization, policies, and control. The case method is used to develop appreciation of sales management functions.

315. *Industrial Relations*. First semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202 or permission of the instructor. MR. JONES.

A course to provide understanding of the principles, policies, and practices used to develop a sound industrial relations program in the business organization. Among the topics included are job analysis, the employment process, employee development and evaluation, wage and salary administration, labor relations, and union negotiation.

317, 318. *Principles of Risk Management and Insurance*. Continuous course; lectures three hours; three credits each semester. Prerequisites: Econ. 201, 202. Mr. Corey.

This course surveys the nature and significance of risk in the modern economic structure and the role of insurance and other means by which it is borne. Probability, risk measurement and legal doctrines are studied in their relation to personal, property and casualty insurance. Although attention is given to the carriers and their operation and regulation, primary stress is given to the user approach.

320. *Advertising*. Second semester; lectures three hours; three credits. Prerequisite: Bus. 311. STAFF.

A study of the relationship of demand stimulation to business management. Liberal use of the case method will emphasize the management of advertising campaigns, expenditures, and the integration of advertising efforts as part of the total marketing concept.

323. *Financial Management*. Both semesters; lectures three hours; three credits. Prerequisites: Bus. 201, 202. MR. QUINN.

A case discussion course covering current and long-term financing, capital budgeting, dividend policies, and business expansion.

327. *Principles of Management*. First semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202 or permission of the instructor. MR. JONES.

An introduction to the principles of management and their application to business. Emphasis is given to the development of a philosophy of management in reference to planning, organizing, directing, and controlling.

329. *Management of Small Business*. First semester; lectures three hours; three credits. STAFF.

A study of the special problems, analysis, and decision-making involved in the management of small business.

330. *Production Management*. Second semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202. MR. AUSTIN.

A course designed to familiarize the student with the production phase of business activity. Emphasis is on developing ability to use analytical methods of decision-making in the design and operation of production systems.

401. *Advanced Accounting*. First semester; lectures three hours; three credits. Prerequisites: Bus. 201, 202, 301, 302; or permission of the instructor. MR. REECE.

A study of accounting for partnerships, consignments, installments, receivers' accounts and the use of actuarial science.

402. *Advanced Accounting*. Second semester; lectures three hours; three credits. Prerequisites: Bus. 201, 202, 301, 302 and 401; or permission of the instructor. MR. REECE.

Consolidated statements, foreign exchange, estate and fund accounting, together with an analysis of a number of problems given on recent C.P.A. examinations, are covered in this course.

405. *Municipal and Governmental Accounting*. First semester; lectures three hours; three credits. Prerequisites: Bus. 201, 202. MR. REECE.

Principles and practices of fund accounting are developed with emphasis upon their adaptation to state and local governmental units and institutions.

412. *Human Relations in Administration*. Both semesters; lectures three hours; three credits. Prerequisites: Econ. 201, 202 or permission of the instructor. MR. JONES.

A course employing the case method and supplementary readings to develop managerial skill in recognition and analysis of problems in human interaction, and formulation and communication of plans for action. The course seeks to develop an administrative philosophy in handling human relations problems encountered in management.

416. *Business Policy*. Both semesters; lectures three hours; three credits. Prerequisite: Senior standing in the business administration concentration or permission of the instructor. MR. QUITMEYER.

A course which deals with the establishment of company-wide objectives and the subordinate plans and controls to accomplish them. This course makes use of the case method to integrate and build upon the business administration core to develop decision-making ability at the policy-making level of administration.

418. *Quantitative Analysis for Business Decisions*. Second semester; lectures three hours; three credits. Prerequisite: six hours of mathematics or permission of the instructor. MR. JONES.

A course which integrates quantitative decision methods and the team approach to research problems of interest to management. Attention is given to probability theory, linear programming, and quantitative models used in the analysis of business problems.

428. *Seminar in Contributions of Liberal Arts to Business*. Both semesters; hours to be arranged; three credits. MR. COREY and MR. QUITMEYER.

Study in contributions of liberal disciplines to the understanding of the role of business and its management in our society.

430. *Seminar in Business Research*. Both semesters; hours to be arranged; three credits. STAFF.

Independent research culminating in the preparation of a thesis on a topic of business interest.

Chemistry

PROFESSORS GUY (*Head of the Department*) and ARMSTRONG.
ASSOCIATE PROFESSORS HARRELL¹ and HILL. ASSISTANT
PROFESSORS ZUNG and MACQUEEN. INSTRUCTOR
TARLETON. STOCK-KEEPER KATZ.

REQUIREMENTS FOR CONCENTRATION

The minimum number of semester credits required for concentration in chemistry (except for pre-medical students) is 37 and must include Chemistry (101, 102) or 111; 202; 301, 302; 401, 402; Mathematics 201, 202; Physics 101, 102. At least 7 additional semester credits in chemistry must be chosen from Chemistry 201, 305; 403, 404; 406; 407; 408; 409; 530. German or French or both are to be taken in satisfaction of the foreign language distribution requirement. A reading knowledge of German is highly desirable. It is strongly urged that Chemistry 201, 202 be taken in the sophomore year.

SPECIAL CONCENTRATION PROGRAMS

I. PROFESSIONAL TRAINING

The Department is listed among those approved by the Committee on Professional Training of the American Chemical Society and those graduates who have met certain minimum standards established by this Committee may be certified to the Society for recognition by them as having received undergraduate professional training in chemistry. To meet these standards this concentration program must include Mathematics 201, 202; Physics 101, 102; and a reading knowledge of scientific German. The required courses in chemistry will be chosen in consultation with the Head of the Department.

II. PREPARATION FOR MEDICINE, DENTISTRY, AND PUBLIC HEALTH

The minimum number of semester credits for pre-medical students concentrating in chemistry is 30. This program must

¹On leave of absence, 1963-1964.

include Chemistry (101, 102) or 111; 202; 301, 302; and at least 8 additional semester credits from Chemistry 201; 305; 401, 402; 403, 404; 406; 407; 408. (Physics 101, 102; Chemistry 202 and Mathematics 201, 202 are prerequisites for Chemistry 401, 402.) German or French or both are to be taken to satisfy the foreign language distribution requirement.

DESCRIPTION OF COURSES

101, 102. *Elementary General Chemistry*. Continuous course; lectures three hours, laboratory four hours; five credits each semester. MR. GUY, MR. ARMSTRONG and MRS. TARLETON.

An introduction to the study of the common non-metallic and metallic elements with emphasis upon chemical laws and the development and application of chemical principles.

111. *General Chemistry*. First semester; lectures three hours, laboratory four hours; five credits. Prerequisite: evidence of mastery of high school chemistry. MR. ZUNG.

A development of chemical principles through an intensive study of theory and empirical evidence.

201, 202. *Analytical Chemistry*. Continuous course; lectures two hours, laboratory six hours; four credits each semester. Prerequisites: Chem. (101, 102) or 111. MR. ARMSTRONG and MR. ZUNG.

Chemical equilibrium and qualitative analysis. Theory and practice of gravimetric and volumetric analysis. Additional lectures and laboratory hours will make it possible for students who require quantitative but not qualitative analysis to take Chem. 202 without Chem. 201. (Both Chem. 201 and Chem. 202 will be offered each semester if registration warrants.)

301, 302. *Organic Chemistry*. Continuous course; lectures three hours, laboratory five hours; four credits each semester. Prerequisites: Chem. (101, 102) or 111. MR. HILL.

Chemistry of the various organic functions. Reactivity is correlated with electronic and three-dimensional aspects of compounds of carbon.

305. *Descriptive Inorganic Chemistry*. First semester; lectures two hours; two credits. Prerequisite: two years of college chemistry or consent of Instructor. MR. MACQUEEN.

The concept of chemical periodicity is applied in a systematic study of the properties and chemical reactions of the elements and their inorganic compounds.

401, 402. *Physical Chemistry*. Continuous course; lectures three hours, laboratory four hours; four credits each semester. Prerequisites: one year of college physics, quantitative analysis, and calculus. MR. MACQUEEN.

States of matter, chemical thermodynamics, kinetic theory of gases, chemical kinetics, electrochemistry, and chemical statistics.

403. *Introduction to Quantum Chemistry*. First semester; lectures two hours, recitation one hour; two credits. Prerequisite: three years of college chemistry. MR. ZUNG.

A study of atomic and molecular structure, chemical bonding, and atomic and molecular spectra from the standpoint of modern theory.

404. *Theoretical Inorganic Chemistry*. Second semester; lectures two hours; two credits. Prerequisite: Chemistry 403 or consent of Instructor. MR. MACQUEEN.

Selected topics in chemical bonding, coordination and stereochemistry, solutions, acid-base behavior, and radiochemistry.

406. *Advanced Quantitative Analysis*. Second semester; lecture one hour, laboratory four hours; two credits. Prerequisites: Chem. 201, 202; co-requisite: Chem. 402. MR. ARMSTRONG.

A treatment of selected topics including electrolytic separations, organic analytical reagents and physico-chemical methods.

407. *Advanced Organic Chemistry*. First semester; lectures three hours; three credits. Prerequisites: Chem. 301, 302. MR. HILL.

Selected areas of organic chemistry will be considered, the choice depending upon the current interests of the instructor and the members of the class. Principles developed in Chemistry 301-302 will be applied.

408. *Qualitative Organic Analysis*. Second semester; lecture one hour, laboratory six hours; three credits. Prerequisites: Chem. 301, 302. MR. HILL.

A study of a systematic method of identification of organic compounds with application of the method to individually assigned samples.

†409. *Introduction to Chemical Research*. Any semester; hours to be arranged; credits according to the work accomplished. STAFF.

A course for the advanced student affording an opportunity for individual work on an assigned problem.

*530. *Molecular Spectroscopy*. Second semester; lectures three hours; three credits. Seniors admitted by the consent of the instructor. MR. ZUNG. (Offered jointly by the Departments of Physics and Chemistry. Same as Physics 530. Not offered in 1964-65.)

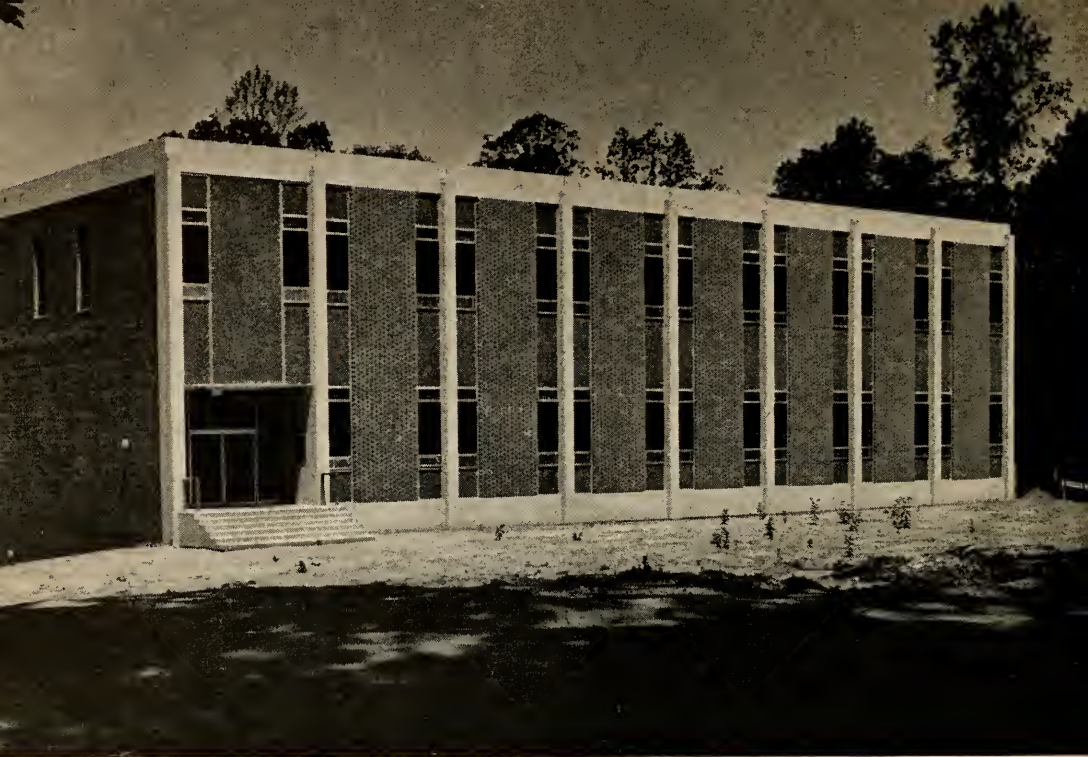
A study of the theory of the spectra of diatomic and polyatomic molecules in the microwave, infrared, and visible-ultraviolet regions.



The Great Hall, Sir Christopher Wren Building

Study Time, The Library





The Newly Completed Adair Gym for Women

A Saturday Afternoon in Cary Field



Economics

PROFESSORS POWERS¹ (*Head of the Department*), COREY, and SANCETTA. ASSOCIATE PROFESSORS MATTHEWS and ELLIOTT. ASSISTANT PROFESSORS ABDUL-MAGID, GARRETT, and NICHOLSON.

DEPARTMENTAL OBJECTIVES

The instructional program offered by the Department of Economics has two purposes: (1) to provide a basis upon which one can achieve a meaningful and purposeful participation in community affairs, and (2) to provide a foundation upon which professional competence in the field can be achieved. To achieve the first purpose, students should take a minimum of thirty semester hours in the Department, exclusive of Economics 201 and 202, in a sequence approved by the Chairman. For those who contemplate serious study in Economics at the graduate level, they should pursue, in addition to the above, a program which includes a minimum of fifteen hours of Mathematics, selected in consultation with the Chairman.

REQUIREMENTS FOR CONCENTRATION

Concentration in Economics requires a minimum of thirty semester hours, exclusive of Economics 201-202, and the Economics courses must be taken in the sequence indicated in the outline below. The Department considers the instructional offerings in other Departments, identified in the suggested sequence, as helpful in complementing the education experience in Economics.

RECOMMENDED PROGRAM

<i>Course</i>	FRESHMAN YEAR	<i>Credit</i>
		<i>Hours</i>
English 101, 102.....		6
Foreign Language (French or German recommended).....		8
Mathematics 103, 104.....		6
Science (Physics recommended).....		10
Physical Education.....		2
		<hr/>
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¹Resigned February 1, 1964.

<i>Course</i>	SOPHOMORE YEAR	<i>Credit Hours</i>
English 201, 202.....		6
Economics 201, 202.....		6
Language (French or German recommended).....		6
History 201, 202.....		6
Psychology Elective.....		3
Sociology Elective.....		3
Physical Education.....		2
		—
		32
	JUNIOR YEAR	
Economics 301, 302.....		6
Economics 303, 304.....		6
Economics 331, 332.....		6
American Government.....		6
Advanced English Electives.....		6
		—
		30
	SENIOR YEAR	
Economics 434.....		3
Electives in Economics.....		9
Other Approved Electives.....		18
		—
		30

DESCRIPTION OF COURSES

201, 202. *Principles of Economics.* Continuous course; lectures three hours; three credits each semester. This course is a prerequisite to all courses in Economics except 331. STAFF.

An introduction to the tools commonly employed by economists to study problems of value, distribution, production and employment. The theory studied is applied to current problems.

301, 302. *Money and Banking.* Continuous course; lectures three hours; three credits each semester. Prerequisites: Econ. 201, 202. MR. MATTHEWS.

The first semester is concerned with the institutional framework of the monetary system with emphasis on the evolution of money and monetary systems and the development of commercial and central banking. The second semester is devoted to monetary theory and its application to policy measures. Areas of study will

include the relation of the money supply to the rate of interest and employment, the relationship between monetary and fiscal policies, and international monetary relations.

303, 304. *Intermediate Economic Analysis*. Continuous course; lectures three hours; three credits each semester. Prerequisites: Econ. 201, 202. MR. NICHOLSON.

The first semester is devoted to the advanced analysis of the operation of the market price system in the general areas of value and distribution theory. The second semester is devoted to the advanced analysis of the measurement of national income, employment, the price level, and economic growth.

306. *General Economic History*. Second semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202. MR. ELLIOTT.

An examination of the emergence of present-day economic organization through an analysis of the economic background and institutions of the Middle Ages through nineteenth century economic development in Europe. Emphasis is placed on the rise of commerce, industry, and banking; growth of population and the labor force; position of agriculture; business fluctuations.

331, 332. *Principles and Methods of Statistics*. Continuous course; lecture two hours, laboratory two hours; three credits each semester. Prerequisites: Math. 103, 104. MR. GARRETT.

Frequency distribution, measures of central tendency and dispersion, statistical inference, sampling, correlation and regression analysis, and analysis of variance are considered. Some attention is given to quality control. Special emphasis is placed on the use of statistical analysis in decision-making.

401. *Econometrics*. First semester; lectures three hours; three credits. Prerequisites: Econ. 304, 332. MR. GARRETT.

This course is concerned with the application of mathematical and statistical techniques to problems of economics. Basic methods of bringing economic theory and factual research together to provide empirical guidance for policy formation are studied. This study includes mathematical formulations of the economics of resource allocation, pricing and income determination; criteria for

optimal investment choices; examination of determinants of aggregative change and the balance of payments, and an introduction to linear programming.

402. *Regulated Industries*. Second semester; lectures three hours; three credits. Prerequisites: Econ. 302, 303, 304, or permission of the instructor. MR. GARRETT.

An analysis of the nature and development of regulated industries. Interagency competition and the problems and methods of coordination are examined. Special attention is devoted to pricing theory, with particular emphasis on rate making, discrimination, and the effect of rates on the location of industry.

403. *History of Economic Thought*. First semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202. MR. SANCETTA.

A survey of economic thought from medieval times to the nineteenth century. An attempt is made to read the great masterpieces of economics within the context of the times in which they were written. Special attention is given to the works of Adam Smith, Ricardo, Malthus and Mill.

404. *History of Economic Analysis*. Second semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202; 303, 304. MR. SANCETTA.

A study of the development of economic theory. Emphasis is given to the development of marginal analysis, institutional economics, and the writings of John Maynard Keynes.

406. *Comparative Economic Systems*. Second semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202. STAFF.

A study of the politico-economic and philosophical aspects of capitalism, socialism, communism and fascism. Special attention is given to the politico-economic issues in the competition between the U. S. A. and the U. S. S. R. for world leadership.

407. *Labor Economics*. First semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202. MR. ELLIOTT.

A study of the development, structure, government, and policies of labor organizations; the major issues in union-management relations and problems of public policy.

415. *International Economics*. First semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202, 302 or 303, or permission of instructor. MR. MATTHEWS.

This course develops the theory of international trade from the Mercantilists to the modern economists. The objective is to give the student basic knowledge of analytical tools used by economists in the study of international economic problems.

416. *International Trade and Policies*. Second semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202, 415 or permission of instructor. MR. MATTHEWS.

This course analyzes historically problems in tariffs and other protectionist devices, the effect of economic development on the pattern of world trade; problems in balance of payments equilibrium, foreign exchange, and international finance. Particular attention is focused on international economic developments since World War II.

421. *Public Finance*. First semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202, 303, 304, or permission of instructor. MR. ABDUL-MAGID.

Analysis of governmental expenditures, revenues and debt systems with emphasis upon their economic effects and their relationships to principles of economic welfare. The course focuses attention on recent proposals of fiscal reforms in the United States in the light of the objectives of economic growth and stability.

422. *Fiscal Policy*. Second semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202, 421, or permission of instructor. MR. ABDUL-MAGID.

The economic background, rationalization and evaluation of fiscal policy is examined. A critical evaluation of the alternative approaches of government finance is presented and special emphasis is given to the instruments, problems and applications of fiscal policy. Also the relationship between monetary and fiscal policy is examined.

425. *Industrial Organization*. First semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202, 303. MR. SANCETTA.

The environmental settings in which business enterprises operate and their behavior as producers, sellers and buyers. Patterns of market structure, types and forms of market conduct and market performance of industries are examined in detail. The relative incidence of competitive and monopolistic tendencies in industry are also analyzed.

426. *Government and Business Enterprise*. Second semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202. MR. SANCETTA.

A study of the economic, legal, and political aspects of government regulation of, aid to, and competition with private business.

430. *Economic Growth and Development*. First semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202, 303, 304 or permission of instructor. MR. ABDUL-MAGID.

The major theories of economic growth and their relationships to the problems of economic development of the underdeveloped countries today are examined. Special consideration is given to the pressure of population and the policies to pursue to increase the rate of capital formation. Attention is focused on case problems among countries in the Middle East, Southeast Asia, and Latin America.

431. *Business Cycles and Forecasting*. Second semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202, 303, 304, 331, or permission of instructor. MR. ABDUL-MAGID.

Study of the nature, measures and causations of economic fluctuations as experienced by the United States with special emphasis on recent experiences. The course examines modern theories of economic growth and their relationships to business cycles, and the role of forecasting and monetary-fiscal policy in promoting economic stability.

434. *Seminar*. Both semesters; three credits. Required during the senior year of all concentrators in Economics. STAFF.

This course attempts (a) to integrate information acquired in previous courses; (b) to develop broader insights into critical issues of public policy; (c) to create a scale of personal priorities

concerned with the possible solutions of these issues; (d) to improve skills in defending orally and in writing points of view once taken; and (e) to acquaint students with the various sources of professional literature in economics. Frequent reports and extensive readings are required.

495, 496. *Honors*. Continuous course; hours to be arranged; three credits each semester. STAFF.

Advanced study on a tutorial basis the first semester. In the second semester each student undertakes independent research on a selected topic and presents an Honors Essay. Each Honors student is responsible for (a) the supervised reading of a selected list of books in economics; (b) satisfactory completion by May 1 of an original essay, or other scholarly project in the field of economics and, (c) satisfactory performance on a comprehensive oral examination. Honors students are *not* required to take Economics 434, *Seminar*. Credits in Economics 495 do not depend on completion of the rest of the Honors program. A student who withdraws from the Honors program at the end of the first semester must take Economics 434 the second semester. A student who completes the Honors Essay but does not achieve Honors may be given credit for Economics 434.

Education

PROFESSORS HOLLAND (*Head of the Department and Dean of the School of Education*) and HERRMANN. ASSOCIATE PROFESSORS CHESSER, CLEM, COPELAND, GALFO and McCARTHA. ASSISTANT PROFESSORS IRNSIDE and SYKES. INSTRUCTOR RILEY. LECTURERS MATIER, WILLIAMS and WINDER.

REQUIREMENTS FOR CONCENTRATION

Elementary Education

In addition to the courses listed below, the student should include in his program 15 semester credits in English, 3 in U. S. History, 3 in Geography, and 6 in Mathematics (of which 3 are Education 325 or Education 326). He should also elect, in consultation with an advisor from the Department of Education, intermediate and advanced courses in at least one subject field and preferably two subject fields.

	<i>Semester Credits</i>
Education 301—Human Development and Learning.....	3
Education E302—Fundamentals of Elementary Education.....	3
Education E304—Teaching Reading in the Elementary School.....	3
Education E305—Materials and Methods in Elementary School.....	3
Education 317—Health Education for Teachers.....	3
Education E321—Children's Literature.....	3
Education 325, 326—Fundamentals of Mathematics.....	6
(To be elected by students who do not elect mathematics as a Distribution requirement.)	
Education E401A, E402A—Supervised Teaching—Primary Grades.....	} 6
or	
Education E401B, E402B—Supervised Teaching—Upper Elementary Grades.....	
Education 404—Foundations of Education.....	3
Fine Arts 331—Principles of functional design.....	3
Music 320—Music for Elementary School Teachers.....	} 3
or	
Music 321—Music in the Elementary School.....	

Secondary Education

In addition to the courses listed below, the student should include in his program 12 semester credits in English, 3 in U. S. History and 6 in Mathematics.

	<i>Semester Credits</i>
Education 301—Human Development and Learning.....	3
Education S302—Fundamentals of Secondary Education.....	3
Education 317—Health Education for Teachers.....	3
Education 325, 326—Fundamentals of Mathematics.....	6
(To be elected by students who do not elect mathematics as a Distribution requirement.)	
Education S401-S402—Supervised Teaching.....	6
Education S403—Methods of Teaching in the Secondary School.....	3
Education 404—Foundations of Education.....	3
Education 411—Guidance and Personnel Work in Schools.....	3
Major Teaching Field—Courses on the intermediate and advanced level..	24

GRADUATE STUDY

At the graduate level the Department is organized as a School of Education. Graduate study is offered for those who have completed with merit an undergraduate program at an accredited institution. Programs are designed not only for those who have a Bachelor's degree in Education but for graduates from colleges in liberal arts, engineering, and other colleges. The advanced degree requirements enable students to strengthen their undergraduate preparation, to qualify for positions of Division Superintendent of Schools, Secondary and Elementary School Principalship, Director of Instruction, Supervisor, and Guidance Counselor; and to further preparation in the subject matter of a teaching field.

Admission to the Graduate School of Education

Application blanks for admission to graduate study in the School of Education should be requested from either the office of the Dean of Admissions of the College of William and Mary or from the office of the Dean of the School of Education.

Graduate students are admitted to regular graduate status, provisional graduate status, or as unclassified students. In any case, the applicant must have completed the requirements for a Bachelor's degree in an institution of approved standing. Regular and provisional graduate students are permitted to undertake programs of study which lead to an advanced degree. These students must have achieved a minimum quality point average of 1.5 or its equivalent in undergraduate study **and must have**

satisfactory professional recommendations, including a satisfactory rating as a teacher or educational administrator made by a professional superior.

The faculty awards the Master of Arts degree which involves an introduction to the methods of research and the writing of a Master's thesis. In addition, the Master of Education degree is awarded. This degree involves an introduction to methods of research and either the writing of an approved Education Project or the substitution of additional coursework on the graduate level in lieu of the Project.

The admission requirements for both the Master of Arts in Education and the Master of Education degrees include the provision that the applicant should hold the *Virginia Collegiate Professional Teaching Certificate or its equivalent*. Equivalents are as follows:

1. The undergraduate program contains a minimum of fifteen (15) semester credits in education, including one year of practice teaching; or
2. The bachelor's degree held is B.S. in Education, and includes one year of practice teaching (two sessions of successful teaching experience will be accepted in lieu of practice teaching); or
3. Holders of the bachelor's degree, without professional training, upon the completion of two sessions of successful teaching may be accepted as unclassified students; in this case undergraduate courses in education on the basis of individual need may be required in addition to courses on the graduate level.

Graduate Record Examination

Applicants for admission to regular graduate status are asked to submit to the Dean of the School of Education the scores on the Graduate Record Examination if this has been taken. If the Graduate Record Examination has not been taken, the Graduate Studies Committee of the School of Education may require the scores as part of the data submitted by an applicant for graduate admission.

Requirements for Degrees

Degree of Master of Arts

The requirements for the Master of Arts degree are as follows:

- I. The Dean of the School will plan and approve the student's program.
- II. A minimum residence period of one regular session or of four summer sessions of nine weeks each is required.
- III. At least twenty-four semester credits of advanced work, of which at least one-half must have been earned in courses numbered above 500, with a quality point average of 2.0 are required for the M.A. degree. No credit will be given for any grade below C.
- IV. The student must present a thesis approved by the student's Examination Committee. He must register for 560, *Thesis*, hours to be arranged, for at least one semester and may repeat this registration. This registration does not alter in any way the twenty-four credits in course work required for the M.A. degree. The thesis must be submitted in final form for acceptance or rejection two weeks before the student expects to receive the degree. The degree will not be granted until three bound copies have been presented by the student to the Dean of the School.
- V. An examination covering the entire field by study is required. This examination is conducted by the student's Examination Committee.
- VI. All requirements for the degree must be completed within a maximum period of six calendar years after commencing graduate study.

Degree of Master of Education

The program of study leading to the Master of Education degree is planned for students who wish to continue systematic professional study beyond the Bachelor's degree in order to extend their preparation for administrative, supervisory, counseling, and teaching positions. It is designed to provide broad,

fundamental, and practical preparation for such positions, and to develop ability to utilize the contributions of philosophy and research in the solution of educational problems.

The requirements for the degree of Master of Education are as follows: I, II, V, and VI of the requirements for the M.A. degree apply also to the M.Ed. degree. Requirements applicable specifically to the M.Ed. degree are:

- I. At least twenty-seven semester credits of advanced work, of which at least one-half must be earned in courses numbered above 500, with a quality point average of 2.0 are required for the M.Ed. degree. No credit will be given for any grade below C. If in the judgment of the Dean of the School of Education they are necessary to the professional training of the student, additional courses may be required.
- II. The student may present a report of a professional project approved by the School of Education and by the student's Examination Committee. He must register for Education 530, *Project*, hours to be arranged, for at least one semester and may repeat this registration. This registration does not alter in any way the twenty-seven credits in course work required for the M.Ed. degree. The project report must be submitted in final form for acceptance or rejection two weeks before the student expects to receive the degree. The degree will not be granted until three bound copies have been presented by the student to the Dean of the School.
- III. With the approval of the Dean of the School, a student may elect to substitute additional course work for the thesis or professional project report referred to in Section II. Under this option a minimum of thirty semester credits of graduate work, of which at last one-third must be earned in courses numbered 500, and which must include Education 501-502, is required. Graduate credit in excess of the minimum may be required if in the judgment of the adviser it is necessary to the professional training of the student. A comprehensive examination covering the major areas of study is required upon completion of the course work. The general requirements of the M.Ed. degree apply also to this option.

Master's Degree Programs

A student admitted to graduate study in the School of Education is assigned a faculty advisor at the time he is admitted. He plans with this advisor a program of courses which meets the requirements of the degree he seeks. After a minimum of twelve semester credits have been passed, the student is eligible for *candidacy* for the Master's Degree. Normally, the twelve semester hours should include the following courses:

	<i>Semester Credits</i>
Education 404g—Philosophy of Education.....	3
Education 501—Research Methods in Education.....	3
Education 531—Human Growth and Development.....	3

The student may not become a *candidate* for the Master's degree until he has completed Education 501, *Research Methods in Education*. Candidacy requires the recommendation of a faculty committee the chairman of which is the student's advisor. It is the student's responsibility to initiate the action of this committee.

A final oral examination is required of each candidate. This examination is administered by the committee chaired by the student's adviser and must be taken near the latter part, or at the conclusion, of his graduate program.

Suggested fields of graduate emphasis are: Elementary school administration; Secondary school administration; Supervision of instruction; Guidance and counseling; and Secondary classroom teaching.

Teachers who desire to secure greater competency in the content of a teaching field may include in their fields of emphasis advanced courses in other subject fields of the College. Appropriate subjects are: Ancient Languages, Biology, Chemistry, English, Fine Arts, Mathematics, Modern Languages, Physical Education, Physics, and Social Studies.

Students planning a course in advanced study leading to the degree of Master of Arts with specialization in Education should take at least fifteen semester hours of professional work; the remaining portion of the 24 semester hours required for this degree should be in a related field. Courses in addition to the minimum specified in the preceding sentence may be required if deemed necessary by the head of the Departments concerned.

Suggested Graduate Programs

Master of Education: Degree program for the Secondary School Guidance Counselor.

	<i>Semester Credits</i>
I. BASIC COURSES	
Education 404g—Philosophy of Education.....	3
Education 501—Research Methods in Education.....	3
Education 531—Human Growth and Development (advanced).....	3
II. GUIDANCE COURSES	
Education 411g—Guidance and Personnel Work in Schools.....	3
Education 414g—Measurement in Education.....	3
Education 423g—Individual Appraisal for Guidance Purposes.....	3
Education 424g—Techniques of Counseling.....	3
Education 517—The Informational Services in Guidance.....	3
Education 518—Organization of Guidance Programs.....	3
III. CULMINATING COURSE	
Education 502—Seminar in Education.....	3
Total.....	30

Thirty semester credits as specified above is the minimal program leading to the M.Ed. degree with emphasis in Guidance. Normally the program is amplified with courses selected from the following upon the recommendation and approval of the student's graduate adviser.

Cases in which the student has completed certain Guidance or Psychology courses on the undergraduate or unclassified graduate level, he may substitute from the following courses upon the recommendation and approval of his graduate adviser.

	<i>Semester Credits</i>
Education 415g—Evaluation of Instruction.....	3
Education 505—Curriculum Organization—Secondary School.....	3
Education 520—Supervised Practice in Counseling.....	6
Psychology 405g—Abnormal Psychology.....	3

Master of Education: Degree program in preparation for the Principalship.

	<i>Semester Credits</i>	
	<i>Elemen-</i>	<i>Sec-</i>
	<i>tary</i>	<i>ondary</i>
I. BASIC COURSES		
Education 404g—Philosophy of Education.....	3	3
Education 501—Research Methods in Education.....	3	3
Education 531—Human Growth and Development.....	3	3
II. SUPERVISION AND CURRICULUM		
Education E405g—Elementary School Curriculum.....	3	—
Education 505—Secondary School Curriculum.....	—	3
Education 506—Supervision of Instruction.....	3	3
Electives from list presented.....	6	6
III. ADMINISTRATION		
Education 507—Educational Administration.....	3	3
Education 508—The Organization and Administration of Secondary Schools.....	—	3
Education 509—The Organization and Administration of Elementary Schools.....	3	—
Education 502—Seminar in Education.....	3	3
	—	—
Total.....	30	30

Thirty semester credits as specified above is the minimal program leading to the M.Ed. degree in preparation for the Principalship. Normally this program is amplified with courses selected from the following upon the recommendation and approval of the student's graduate adviser.

Cases in which the student has completed certain of the above courses as an unclassified graduate student, he may substitute from the following courses upon the recommendation and approval of his graduate adviser.

	<i>Semester Credits</i>	
	<i>Elemen-</i>	<i>Sec-</i>
	<i>tary</i>	<i>ondary</i>
Education 411g—Guidance and Personnel Work in Schools.....	3	3
Education 414g—Measurement in Education.....	3	3
Education 415g—Evaluation of Instruction.....	3	3
Education E416g—Guidance in the Elementary School.....	3	—
Education 426g—Developmental Reading.....	3	3
Education 510—School Finance.....	3	3
Education 526—Problems in the Teaching of Reading.....	3	3

Master of Education: Degree program in Elementary Teaching.

	<i>Semester Credits</i>
I. BASIC COURSES	
Education 404g—Philosophy of Education.....	3
Education 501—Research Methods in Education.....	3
Education 531—Human Growth and Development.....	3
II. PROFESSIONAL AND SUBJECT MATTER COURSES	
Education E405g—Elementary School Curriculum.....	3
Education 414g—Measurement in Education	
or	
Education 415g—Evaluation of Instruction.....	3
Education 426g—Developmental Reading.....	3
Advanced and graduate courses selected with reference to the needs and interests of the student. It is preferred that these courses be in subject matter areas such as Science, English, Mathematics, the Social Sciences, Fine Arts or Music.....	9
III. CULMINATING COURSE	
Education 502—Seminar in Education.....	3
Total.....	30

Master of Education: Degree program in Secondary Teaching.

I. BASIC COURSES	
Education 404g—Philosophy of Education.....	3
Education 501—Research Methods in Education.....	3
Education 531—Human Growth and Development.....	3
II. PROFESSIONAL AND SUBJECT MATTER COURSES	
Education 505—Secondary School Curriculum.....	3
Education 414g—Measurement in Education	
or	
Education 415g—Evaluation of Instruction.....	3
Advanced and graduate courses selected in the teaching field. Appropriate areas are: Biology, Chemistry, Economics, English, Fine Arts, French, German, Government, Greek, History, Latin, Mathematics, Music, Physical Education, Physics, Sociology, or Spanish. It is also possible to combine certain subjects such as the Social Sciences and General Sciences.....	12 or 15
III. CULMINATING COURSE	
Education 502—Seminar in Education.....	3
Total.....	30 or 33

Master of Arts in Teaching:

The degree of Master of Arts in Teaching (M.A.T.) is designed for the recent college graduate who holds a degree in one of the subject fields taught in the secondary school, and who has not previously prepared himself for a teaching career. It is intended to provide an opportunity for such a graduate to strengthen his preparation in the subject field which he plans to teach and, at the same time, to complete certain professional training needed for certification for classroom teaching in the secondary school. The purpose of the program is to encourage persons with high levels of competency in a subject field to enter secondary school teaching, and to provide the means by which they can be more successful in the classroom.

The course of study for the M.A.T. degree is not intended to duplicate the work of, or compete with, the program for the Master of Education (M.Ed.) degree, which is designed for the further preparation in the field of Education of individuals who already hold degrees in Education and Collegiate Professional Certificates for Teaching, and who wish to prepare for administrative and other such professional positions in the public school system. The M.A.T. degree also is not intended to duplicate the work for the degree of Master in Teaching of Science (M.T.S.) which is designed to increase the level of competency in a scientific field of established teachers in that field, and which is now related specifically to the National Science Foundation Institute program. The M.A.T. degree also is not intended to duplicate the work for the regular Master of Arts (M.A.) degree.

The program for the M.A.T. degree consists of two parts. The primary part is liberal arts instruction at the graduate level in the subject field. This requirement, therefore, limits the M.A.T. program to students who plan to teach subjects for which graduate study at the College of William and Mary is offered. In principle, this instruction will enable the Faculty of Liberal Arts and Sciences to certify that the candidate is competent in his subject field.

The second part of the M.A.T. curriculum is professional training in Education, the core of which is an integrated program of teaching internship and pedagogy. This professional training in Education is designed to enable the faculty of the School of Education to recommend that the candidate is qualified for a

Collegiate Professional Certificate for teaching in the secondary school. Within the framework of these two goals, the program of instruction will be tailored to the educational needs of the individual student.

This is a fifteen-month program consisting of two semesters of course work during the regular academic session, followed by courses in the summer session, and a semester of internship.

I. Admission Requirements

1. The applicant must qualify for regular graduate status.
2. The applicant must be recommended by the Department Head of the subject field involved and approved for regular graduate status.
3. The applicant must have an undergraduate major in the proposed teaching field or sufficient preparation in that field to fulfill the requirements of the M.A.T. degree. This implies an individual program must be planned by the Department Head with concurrence of the applicant prior to recommendation for admission.
4. Applicants may be required to take the Graduate Record Examination (Aptitude and Advanced). Applicants will be notified by the department concerned, if the examination is to be required.
5. Completed applications should be received by May 15.
6. Applicants will be admitted only on approval by the Graduate Studies Committee.

II. Degree Requirements

- A. Degree requirements for each student may be varied within the limits described below. Individual programs will be worked out in detail by the respective Department Head and the Dean of the School of Education or their designated representatives.
- B. Total credits: 33 semester credits divided between the teaching field and professional development.
 1. Teaching Field: 18 semester credits.

2. Professional Development: 15 semester credits with a minimum of six in courses exclusively for graduate students.
 3. Students with undergraduate training in Education may increase the credits taken in the Teaching Field by a number equal to that previously taken in Professional Development.
 4. At least one-half of the total hours for the degree must be earned in courses exclusively for graduate students.
- C. The student will be given an oral comprehensive examination at the conclusion of the course work in the subject field and again at the conclusion of his internship. The candidate may be certified for candidacy for the degree after successful completion of the examination in the subject field. The examining committee representative of the subject field and the School of Education shall be appointed by the Chairman of the Graduate Studies Committee.
- D. One semester of full-time teaching internship in a selected High School in accordance with agreements made between the College and the school.
- E. An average of *B* in the 33 hours of course work taken with no grade below *C*.

DESCRIPTION OF COURSES

GENERAL COURSES

301. *Human Development and Learning*. Both semesters; lectures three hours; three credits. MR. RILEY.

Beginning course in both Elementary and Secondary Education. Human growth and development; the psychology of learning.

317. *Health Education for Teachers*. Both semesters; lectures three hours; three credits. MR. COPELAND.

This course deals with various aspects of health with which all teachers are concerned. Topics related to maintenance of

health, control of disease, health agencies and the school health program are studied.

325, 326. *Fundamentals of Mathematics*. Continuous course; lectures three hours; three credits each semester. MR. COPELAND.

An introduction to the concepts, language, and scope of the mathematics now finding its way into the curriculum of the public schools. Designed for two groups: (1) those concerned with mathematics instruction at the elementary and junior high school levels and (2) those planning to teach at the secondary level in areas other than mathematics or science.

Education 325 includes a study of the historical development of systems of enumeration, the structure of the base ten number system and the other bases under the operations of addition and multiplication and their inverses, the various algorithms used to perform these operations, the five basic laws, the properties of closure, primes, greatest common factors and least common multiples. Intuitive geometry is begun with a study of points, lines and spaces.

Education 326. The rational number system under the basic operations of addition and multiplication and their inverses including use of the number line, negative numbers, solution sets, equalities and inequalities. Topics are included from modern algebra, probability and the application of mathematics to the business world. Intuitive geometry is continued with the study of measurement, approximation, construction and congruent triangles and the trigonometric ratios.

Education 325, 326 are content courses of the survey type structured for teachers and approved by the State Department of Education to meet the six semester hour math requirement for teaching in Virginia. These courses do not meet the college distribution requirement. Education 325 is not a prerequisite for Education 326, but the normal sequence is recommended.

404. *Philosophy of Education*. Both semesters; lectures three hours; three credits. MR. HOLLAND, MR. RILEY.

This course traces the history and philosophy of education from ancient times to the present. Emphasis is placed upon the

several philosophical systems supporting education currently in the United States and foreign countries. Required of all students studying for the Master's degree.

SECONDARY EDUCATION

S302. *Fundamentals of Secondary Education*. Second semester; lectures three hours; three credits. MR. RILEY.

Deals with development and curriculum of the American secondary school and the theory and practice of secondary teaching methods. This course is required of students planning to teach on the secondary level.

S305. *The Teaching of High School Latin*. Either semester; lectures three hours; three credits. Same as Ancient Languages 405.

S401, S402. *Supervised Teaching*. Continuous course; five days a week; three credits each semester. Prerequisites: senior standing, nine semester credits in Education including Education S302; fifteen semester credits in each academic subject to be taught. Endorsement in the subject matter area to be taught is required by the Department Head of the area. MR. GALFO.

S403. *Methods of Teaching in the Secondary School*. Both semesters; lectures three hours; three credits. Prerequisites: Education 301 and Education S302 and fifteen semester credits in the subject of teaching choice. MR. CLEM, MR. GALFO, MISS MATIER, MISS WILLIAMS.

The course deals with organizing instruction, selecting and using materials, practicing methods of teaching, and evaluating learning in the several subject fields. It is desirable that this course be taken concurrently with practice teaching.

411. *Guidance and Personnel Work in Schools*. Either semester; lectures three hours; three credits. MR. CLEM.

A study of the fundamental principles of pupil guidance and current practices in school systems. Emphasis is placed on the teacher's responsibilities in a program of guidance. This course is intended for students without previous courses in Guidance and is a prerequisite for all other courses in Guidance.

ELEMENTARY EDUCATION

E302. *Fundamentals of Elementary Education*. Second semester; lectures three hours; three credits. MR. RILEY.

The growth of the elementary school in America; the aims of education; the unique function and characteristics of the elementary school; curriculum-making and elementary school organization; school and community relations; and the professional development of elementary school teachers.

E304. *Teaching Reading in the Elementary School*. Both semesters; lectures three hours; three credits. Education 301 and E302 must precede or be taken as parallel courses. MR. IRONSIDE.

This course deals with the application of principles of learning and child development to the teaching of reading and the related language arts.

E305. *Materials and Methods in the Elementary School*. Both semesters; lectures three hours; three credits. MR. SYKES.

A continuation of E304 with emphasis upon the areas of social studies, mathematics, science and physical education.

E321. *Children's Literature*. Both semesters; lectures three hours; three credits. MRS. WINDER.

Reading and examination of books and other materials suitable for the child of elementary school age. Includes a study of children's reading interests; criteria and aids of selection of materials; practice in evaluating materials; and a brief survey of the history and trends in publishing books for children. This course is required of all students preparing for elementary school teaching.

E401-A, E402-A. *Supervised Teaching, Primary Grades*. Continuous course; five days a week; three credits each semester. Prerequisites: Educ. 301, E302 and E304, E305, or parallel courses. MR. CHESSE.

E401-B, E402-B. *Supervised Teaching, Upper Elementary Grades*. Continuous course; five days a week; three credits each semester. Prerequisites: Educ. 301, E302 and Educ. E304, E305, or parallel courses. MR. CHESSE.

SPECIAL AND ADVANCED COURSES

S400. *Problems of Secondary Education.* Either semester; hours and credits to be arranged.

This course is designed for students who are capable of independent study under the direction and in consultation with staff specialists. Students undertake study and research of educational problems of individual concern resulting from previous study or experience.

402. *Educational Psychology.* Second semester; lectures three hours; three credits.

The application of psychological principles to classroom teaching. Topics include: learning and transfer, child development, methods of measuring individual differences and achievement, and the adjustment of the teacher.

E405. *Elementary School Curriculum.* Either semester; lectures three hours; three credits.

This course deals with recent theories and practices in curriculum development in public elementary schools. Particular attention is devoted to the Virginia courses of study. The course is primarily intended for teachers, principals, and supervisors, but parents and others interested may enroll.

412. *Human Relations in Administration.* Second semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202; or permission of instructor. MR. JONES.

This course is designed to familiarize the student with the human relations problems encountered in managing employees, and to develop in the student an administrative philosophy and knowledge of personal techniques which would enable him to handle these problems.

414. *Measurement in Education.* Either semester; lectures three hours; three credits. MR. HERRMANN.

An introduction to the use of standardized instruments for measuring mental ability, scholastic achievement, special aptitudes and pupil interest. The course deals with test selection, administration and scoring, interpretation and application of test results in teaching and guidance.

415. *Evaluation of Instruction*. First semester; lectures three hours; three credits. MR. HERRMANN.

This course is designed to develop competence in constructing valid and reliable teacher-made tests to measure achievement of the pupils and to use attitude and interest inventories.

419. *Mental Hygiene in the Classroom*. Either semester; lectures three hours; three credits. MR. MCCARTHA.

Study of the conditions under which wholesome mental and emotional growth takes place, and ways in which the classroom environment can contribute to such growth.

423. *Individual Appraisal for Guidance Purposes*. First semester; lectures three hours; three credits. MR. CLEM.

A study of tools and techniques which may be used by teachers and counselors to improve their understanding of the problems of individual students. Includes interpretation of case data.

424. *Techniques of Counseling*. Second semester; lectures three hours; three credits. Prerequisite: Educ. 423 or equivalent. MR. CLEM, MR. HERRMANN.

An intensive study of techniques used in counseling with students. The course includes a study of techniques of effective interviewing and of techniques of assisting students in gaining insights into their personal problems. Extensive use is made of case data.

426. *Developmental Reading*. Either semester; lectures three hours; three credits. MR. IRNSIDE.

This course is designed to help teachers understand the psychological components of the reading process and the use of these in the teaching of reading. Topics include elementary school reading and the development of reading skills through the high school, with particular attention being put on study skills. Emphasis is also given to testing and remedial procedures. Projects include case studies, book reviews, teaching materials, and the analysis of data.

S436. *The Improvement of Reading in the Junior and Senior High School*. Either semester; lectures three hours; three credits. MR. IRNSIDE.

This course is intended for teachers in junior and senior high school who desire to improve their competence in the teaching of reading. Includes intensive study of the nature of reading problems among adolescents and young adults, the most effective techniques of improving reading abilities among this group, and appropriate materials to be used in this teaching.

501. *Research Methods in Education*. First semester; lectures three hours; three credits. MR. COPELAND, MR. GALFO.

A study of the several methods and techniques generally employed in research with especial reference to their application in the solution of education problems. This course includes the study of educational statistics and is required of all graduate students.

502. *Seminar in Education*. Second semester; lectures three hours; three credits. MR. GALFO, MR. IRONSIDE, MR. MCCARTHA.

This course in addition to Educ. 501 is required of all graduate students in Education.

505. *Curriculum Organization—Secondary School*. Either semester; lectures three hours; three credits.

A major course for teachers, principals, and supervisors. The course will deal with the philosophy underlying curriculum organization and with recent theories and practices in public junior and senior high schools for the improvement of the curriculum.

506. *Supervision of Instruction*. Either semester; lectures three hours; three credits. MR. MCCARTHA.

A major course for supervisors, principals, and administrative assistants in the elementary and secondary school, or for those preparing for these positions. This course will deal especially with the functions of the supervisor in curriculum revision and in the improvement of instruction. It will deal also with the supervisory responsibilities of principals and administrative assistants.

507. *Educational Administration*. First semester; lectures three hours; three credits. MR. CHESSER.

A general course for principals, supervisors and administrative assistants in both elementary and secondary schools. This

course and either Education 508 or 509 are required of all students seeking State Certification for Principalship. This course is also required in programs of students studying for the Superintendency.

508. *The Organization and Administration of Secondary Schools*. Second semester; lectures three hours; three credits. MR. CHESSEER.

A major course for teachers, principals, and administrative assistants in the secondary school. This course deals especially with the duties of the principal as an administrator. Prerequisite: Education 507 or permission of the instructor.

509. *The Organization and Administration of Elementary Schools*. First semester; lectures three hours; three credits. MR. McCARTHA, MR. SYKES.

A major course for teachers, principals, supervisors, and administrative assistants in the elementary school. This course deals especially with the duties of the principal as an administrator. Prerequisite: Education 507 or permission of the instructor.

510. *School Finance*. Lectures three hours; three credits. MR. CHESSEER, MR. McCARTHA.

Required major course in advanced work for students preparing to be school superintendents. Problems in organization and finance of state, county, and city school systems will be considered.

517. *The Informational Services in Guidance Programs*. Either semester; lectures three hours; three credits. MR. CLEM.

A study of the occupational structure of our society, of factors influencing vocational choice, and of techniques for providing educational and occupational information to students. Both individual and group activities will be stressed.

518. *Organization of Guidance Programs*. Second semester; lectures three hours; three credits. Prerequisite: Educ. 411, or equivalent. MR. CLEM.

A study of the procedures involved in organizing and developing guidance programs in schools.

526. *Problems in Reading*. Second semester; lectures three hours; three credits. Prerequisite: Education 426 or permission of the instructor. MR. IRONSIDE.

Basic problems in reading instruction at varying class levels; diagnosis and evaluation of difficulties of problem readers. Topics include the grade-level concept, variations from the norm, case study analyses, choices in teaching methods, learner disabilities, remedial techniques and purposes, formal and informal diagnosis, evaluation of progress, materials in instruction, and relevant research.

530. *Project*. Hours to be arranged. MR. HOLLAND.

531. *Human Growth and Development*. Both semesters; lectures three hours; three credits. Prerequisite: Education 301 or equivalent. MR. IRONSIDE.

A comprehensive study of recent literature dealing with human development and with educational psychology with consideration of implications of these for educational practice. This course is required of all students studying for the Master's degree.

560. *Thesis*. Hours to be arranged. MR. HOLLAND.

TEACHER SCHOLARSHIPS, LOANS AND STUDENT EMPLOYMENT

Virginia Teacher's Scholarship

The General Assembly of Virginia has made an appropriation for Teacher Training Scholarships available to freshmen, sophomores, juniors and seniors who are residents of the State and who plan to teach in the Virginia Public Schools. These scholarships are for \$350.00 per academic year and for proportionate amounts during the Summer Session. Inquiries should be addressed to the Dean of the School.

Kappa Delta Pi Scholarship

The Alpha Xi Chapter of Kappa Delta Pi, national honor fraternity for teachers and students in Education annually offers a \$100.00 scholarship to the student displaying combined scholarship and outstanding professional qualities. Inquiries should be directed to the Dean of the School.

National Defense Student Loans

Under the National Defense Education Act of 1958, Congress authorized substantial funds for the establishment of low interest, long-term student loans in institutions of higher learning. Any full-time student or prospective student may apply for a loan under this Act. The applicant must be in good standing in his course of study, and he must be able to demonstrate need for financial assistance.

Employment, Loans and Other Scholarships

Opportunities for student employment, loan programs and other undergraduate scholarships are described on pages 319-331.

GRADUATE ASSISTANTSHIPS

Assistanships in the amount of \$1,500.00 and tuition each academic year are available to regular graduate students who are enrolled for full-time graduate study. Applications should be directed to the Dean of the School of Education.

TEACHER PLACEMENT

The School maintains a Bureau of Recommendations to assist its graduates who plan to teach or who are seeking changes in employment. No registration fee is charged, and all students enrolled in the School are strongly urged to avail themselves of this service. If the students file complete records and cooperate with the Bureau, the faculty can be of assistance to those who go into teaching, not only at graduation but also at later times.

STUDENT HONORS AND ACTIVITIES

Kappa Delta Pi

This honor society in Education was first organized in 1911 and Alpha Xi Chapter of the College of William and Mary was chartered in 1922. The purpose of Kappa Delta Pi "shall be to encourage high professional, intellectual, and personal standards and to recognize outstanding contributions to education. To this end it shall invite to membership such persons as exhibit

commendable personal qualities, worthy educational ideals, and sound scholarship. It shall endeavor to maintain a high degree of professional fellowship among its members and to quicken professional growth by honoring achievement in educational work." Both men and women are eligible for membership.

Student Education Association

The student organization which complements the National Education Association and the Virginia Education Association has been active in furthering professional competence and providing members with introductions to the National and State professional organizations. All prospective teachers enrolled in Education classes are eligible for membership.

English Language and Literature

PROFESSORS CLARK (*Head of the Department*), EVANS, JONES, McCULLEY, and NEIMAN. ASSOCIATE PROFESSORS DAVIDSON, DOLMETSCH, and SMITH. ASSISTANT PROFESSOR JENKINS. INSTRUCTORS ANGELL, BALL, CACCIAPAGLIA, DAVIS, ELLIOTT, FRENCH, GARVIN, GAULL, HEEMAN, HUBERT, KINDRED, NUNES, STUART, and WILLIS

REQUIREMENTS FOR CONCENTRATION

A concentration in English requires 36 credits in courses beyond English 101, 102, or 103, 104. English 201, 202 and English 209 are required. At least 18 credits must be selected from courses numbered 350 or above; at least 6 of these 18 credits must be selected from courses numbered in the 400 series. Candidates for Honors must elect English 495, 496, as the 6 required credits in the 400 series.

DESCRIPTION OF COURSES¹

101, 102. *Composition and Literature*. Continuous course; lectures three hours; three credits each semester. STAFF.

English 101, 102 is designed for the student who has had adequate but not exceptional training in grammar, composition, and literature. The course includes comment on individual problems of grammar and usage; a review of central principles of rhetoric and style; the writing of a number of short and at least two longer papers related to the reading; thoughtful analysis and criticism of selected essays and larger works; and close study of the literary types of fiction, drama, and poetry.

103, 104. *Composition and Literature*. Continuous course; lectures three hours; three credits each semester. STAFF.

English 103, 104 is designed for the student of unusual proficiency. In general the course covers approximately the same range as English 101, 102. Imaginative works are studied with greater intensity, however. There is less class review of the principles of writing and more emphasis in the papers upon the

¹Students will normally complete the distribution requirements in English before beginning any 300 courses in English.

development of critical skill. Students are assigned by the Department of English to English 103, 104 on the basis of the records submitted to the Dean of Admissions.

201, 202. *English Literature*. Continuous course; lectures three hours; three credits each semester. STAFF.

A survey of English literature, with collateral readings, discussions and reports.

*209. *Composition*. Both semesters; lectures three hours; three credits. STAFF.

Practice in writing under criticism; regular themes and conferences. The chief stress is placed on expository writing. (This course is open to all students of the sophomore level and above.)

303. *Epic and Romance*. First semester; lectures three hours; three credits. STAFF.

A study of two major literary forms, with especial reference to *The Aeneid*, *The Divine Comedy*, and *Don Quixote*.

304. *Aspects of the European Novel and Drama*. Second semester; lectures three hours; three credits. STAFF.

A study with special reference to problems of form, of several plays, and novels of continental Europe, chiefly of the nineteenth century.

305. *The Bible*. First semester; lectures three hours; three credits. MR. SMITH.

A study of selected portions of the Old and New Testaments.

307. *Critical Reading and Writing*. First semester; lectures three hours; three credits. MR. JENKINS.

A study of selected poems, fiction, and plays, the reading of criticism about those works, discussion of standards of literary judgment, and writing of critiques.

311. *English Grammar, Historical and Descriptive*. First semester; lectures three hours; credit three hours. MR. McCULLEY.

A general survey of the development of English grammar and language with particular emphasis on modern grammar and syntax.

*329, 330. *Advanced Writing*. Continuous course; lectures three hours; three credits each semester. STAFF.

The course is intended for the student who has demonstrated some talent for writing. He is encouraged to develop his individual interests and creative capacities. Extensive practice in the several types of writing. The course is conducted as a seminar; manuscripts are read and criticized informally by members of the class.

*333, 334. *Writing the Short Story*. Continuous course; lectures three hours; three credits each semester. MR. CLARK.

A workshop course in the problems and techniques of writing short fiction, designed for those who expect to write as a hobby or as a career. Class discussion, conferences, and criticism by the class of one another's manuscripts.

351. *Medieval Literature*. First semester; lectures three hours; three credits. MR. DAVIDSON.

A survey of Old and Middle English literature exclusive of Chaucer.

353. *Shakespeare*. First semester; lectures three hours; three credits. STAFF.

An intensive study of selected histories and comedies.

354. *Shakespeare*. Second semester; lectures three hours; three credits. STAFF.

An intensive study of the major tragedies and the "problem" comedies.

355. *The English Renaissance*. First semester; lectures three hours; three credits. MR. EVANS.

A survey of English literature, excluding the drama, in the sixteenth century, with emphasis on the works of such contemporaries of Shakespeare as Raleigh, Marlowe, Sidney, and Spenser.

356. *The Seventeenth Century*. Second semester; lectures three hours; three credits. MR. EVANS.



Between Classes, from the Rear of the Wren Building



The Developing Campus, Phi Beta Kappa Hall (front)

Biology Laboratory



A survey of the poetry and prose of the first half of the seventeenth century, with emphasis on the work of Ben Jonson, Herrick, Donne and the Metaphysical poets, and Thomas Browne.

357. *English Literature, 1660-1744*. First semester; lectures three hours; three credits. MR. McCULLEY.

Close study and discussion of literary masterpieces from the Restoration to the death of Pope, with particular emphasis on the writings of Dryden, Bunyan, Addison, Pope, Swift and Defoe.

358. *English Literature, 1744-1798*. Second semester; lectures three hours; three credits. MR. McCULLEY.

Close study and discussion of literary masterpieces from the death of Pope to the publication of the *Lyrical Ballads*, with emphasis on the writings of Goldsmith, Johnson, Blake, Gray and Burns.

359. *The Romantic Period, 1798-1832*. First semester; lectures three hours; three credits. MR. NEIMAN.

A study of the dominant ideas and conventions of English romanticism as expressed through the major poets and critics of the period, viz.: Wordsworth, Byron, Shelley, Keats, Hazlitt.

360. *The Victorian Age*. Second semester; lectures three hours; three credits. MR. NEIMAN.

A study of the intellectual crises of the age as expressed primarily by leading poets and essayists from Carlyle to Hardy.

363. *Modern Poetry*. First semester; lectures three hours; three credits. MR. JONES and MR. JENKINS.

A study of Modern English and American poetry and its development, with reading, interpretation and discussion of the verse of Yeats, Pound, Eliot, Auden, Stevens, Thomas and others.

*364. *Modern Fiction*. Second semester; lectures three hours; three credits. MR. CLARK and MR. DOLMETSCH.

Reading, analysis and discussion of the principal American and British fiction writers from 1890 to the present, chosen to illustrate contemporary tendencies in matter and technique.

366. *Survey of the American Short Story*. Second semester; lectures three hours; three credits. MR. McCULLEY.

A study of the historical development of the short story as a distinctively American form of literature. Especial emphasis on local color, representative American characters, and standards of critical judgment.

371. *American Literature, 1607-1860*. First semester; lectures three hours; three credits. MR. DOLMETSCH.

A survey course covering the period from 1607 to 1860, and emphasizing not only the chief writers and their works but also the cultural trends and principles that have been basic in American life and thought.

372. *American Literature, 1860 to the Present Time*. Second semester; lectures three hours; three credits. MR. DOLMETSCH.

A survey course covering American writing since 1860 and to factors contributing to its development.

373. *The English Drama to 1642*. First semester; lectures three hours; three credits. MR. McCULLEY.

A study of drama in England from its origins to the closing of the theaters in 1642, with emphasis on the works of Christopher Marlowe, Ben Jonson and John Webster.

374. *English Drama, 1660 to the Present*. Second semester; lectures three hours; three credits. MR. McCULLEY.

A study of English drama from 1660 to the present, with emphasis on the modern period; related Continental plays, particularly those of Ibsen, will be studied. Main currents of English dramatic development and critical analysis of texts will be stressed.

375. *The English Novel to 1832*. First semester; lectures three hours; three credits. MR. JONES and MR. SMITH.

A survey of the development of English prose fiction from its beginnings in the Elizabethan period through the novels of Scott.

376. *The English Novel Since 1832*. Second semester; lectures three hours; three credits. MR. JONES and MR. SMITH.

A survey of the English novel from Dickens to the early twentieth century.

402. *Chaucer*. Second semester; lectures three hours; three credits. MR. DAVIDSON.

A study of Chaucer's *Canterbury Tales* and *Troilus and Creseyde*.

405. *Milton*. First semester; lectures three hours; three credits. MR. JONES.

An intensive study of Milton's poetry and prose, with emphasis on *Paradise Lost* and *Samson Agonistes*.

406. *Poe*. Second semester; lectures three hours; three credits. STAFF.

An intensive study of the poetry and prose of Poe.

407. *Hawthorne, Melville and Twain*. First semester; lectures three hours; three credits. MR. DOLMETSCH.

An intensive study of the major novels of these three writers.

408. *Literary Criticism*. Second semester; lectures three hours; three credits. MR. EVANS.

Through a study of major literary critics, this course seeks to formulate a comprehensive and reasoned view of the nature, function and value of literature.

409. *Emerson, Thoreau and Whitman*. Second semester; lectures three hours; three credits. MR. DOLMETSCH.

An intensive study of the major works of these leading American Transcendentalist authors.

411. *The English Language*. First semester; lecture three hours; three credits. MR. DOLMETSCH.

The history of our language from Anglo-Saxon to the present with special emphasis upon the growth and development of American English; principles of lexicography; phonetics and phonetic change; regional dialects, borrowings and coinages; the application of linguistic analysis to literary studies and stylistics.

†450. *Individual Reading*. Either semester; conference and reports; credits according to work done. STAFF.

HONORS STUDY

495, 496. *Honors*. Continuous course; hours to be arranged; three credits each semester. STAFF.

Students admitted to Honor Study in English will be enrolled in this course during both semesters of their senior year. The course comprises (a) supervised reading in the field of the student's major interest; (b) the preparation and presentation by May 1 of an Honors Essay based on the student's own research; and (c) satisfactory completion of a comprehensive examination in the field of the student's major interest.

GRADUATE COURSES

General requirements for the degree of Masters of Arts are stated on pages 91-92. Candidates for this degree in the Department of English Language and Literature must in addition to meeting these requirements (1) demonstrate a reading knowledge of one foreign language, and (2) attain a grade of "B" or better in each course counted for credit toward the degree.

501, 502. *Old English*. Continuous course; lectures three hours; three credits each semester. MR. DAVIDSON.

An introduction to the Old English language, followed by the study of *Beowulf* and other texts.

507, 508. *Elizabethan Literature*. Continuous course; lectures three hours; three credits each semester. MR. EVANS.

Study and research in the literature of Elizabethan England, excluding the drama. First semester: the backgrounds and the development of prose and verse through the early writings of John Donne. Second semester: the poetry of Edmund Spenser.

560. *Thesis*. Hours to be arranged. STAFF.

Fine Arts

ASSOCIATE PROFESSORS THORNE (*Head of the Department*),
NEWMAN and ROSEBERG. LECTURER PHILLIPS.

REQUIREMENTS FOR CONCENTRATION

Students concentrating in Fine Arts must take Fine Arts 201, 202, and 401, 402, and a minimum of 24 additional credits in the Department. A maximum of 21 technical and a total of 42 credits is allowed in a subject field or department.

SPECIAL PROGRAMS OF STUDY

- I. History of Art: Fine Arts 304, 305, 404, 405, 406, 407; one other course in Fine Arts should be included.

NOTE: Students who contemplate graduate work in the History of Art or the History of Architecture should have upon graduation a reading knowledge of either German or French. It is further urged that they plan to take advanced courses in either History or English Literature.

- II. Architecture: Fine Arts 211, 212, 213, 214, 313, 314, 405.

NOTE: Students who contemplate professional work in Architecture should take Physics 101-102, Engineering Graphics 201-202, and one year of the Calculus.

- III. Sculpture: Fine Arts 211, 212, 215, 216, 304, 317, 318, 404.

- IV. Painting: Fine Arts 211, 212, 306, 315, 316, 404, 406, 410, or 415, 416.

- V. Teaching of Art: Fine Arts 211, 212, 213, 215, 315, 331, 421, 422.

DESCRIPTION OF COURSES

201, 202. *Introduction to the Arts*. Continuous course; lectures three hours; three credits each semester. STAFF.

The development of architecture, sculpture, and painting from the earliest times to the present day. Open to freshmen with the permission of the Chairman.

211, 212. *Elementary Drawing*. Continuous course; studio six hours; three credits each semester. MR. HASTINGS.

Creative experience in various media, with emphasis on the visual elements of design. A basic course for practical work in architecture, sculpture, painting and theatrical design.

213, 214. *Introduction to Architecture*. Continuous course; studio six hours; three credits each semester. MR. PHILLIPS.

The first semester is a survey of architectural development with particular attention to American and Contemporary examples. The second semester is a study of spaces for living including contemporary concepts of design, spatial organization materials, furnishing and gardens in relation to all major types of residential architecture.

215, 216. *Elementary Sculpture*. Continuous course; studio six hours; three credits each semester. MR. ROSEBERG.

A practical course in the use of the sculptor's tools and materials which will include work in ceramics.

241. *The Art of Photography*. Both semesters; lectures two hours; two credits each semester.

Experimentation towards an understanding of the limitations and potentialities of the photographic medium as a means of expression. (Not offered 1964-1965.)

304. *Art in the Ancient World*. Second semester; lectures three hours; three credits. MR. ROSEBERG. (Alternates with Fine Arts 410. Not offered 1964-1965.)

305, 306. *Colonial American Art*. Continuous course; lectures three hours; three credits each semester. MR. NEWMAN, MR. THORNE. (Alternates with Fine Arts 405-406. Not offered 1964-1965.)

307, 308. *Art in the Modern World*. Continuous course; lectures three hours; three credits each semester. MR. THORNE, MR. ROSEBERG, MR. NEWMAN.

Architecture, painting, and sculpture in the nineteenth and twentieth centuries. This course is designed for juniors and seniors

with no special knowledge of Fine Arts who wish some knowledge and appreciation of Modern Art.

*313, 314. *Architectural Design*. Continuous course; studio six hours; three credits each semester. MR. PHILLIPS.

A course in architectural design, including the design of single buildings, the problem of building groups and community relationships.

*315, 316. *Painting*. Continuous course; studio six hours; three credits each semester. MR. THORNE.

An introductory course in the various media of painting; painting in oil, tempera and emulsion.

*317, 318. *Advanced Sculpture*. Continuous course; studio six hours; three credits each semester. MR. ROSEBERG.

Compositions in relief and in the round, development of original designs from preliminary sketch to completed work in wood, plaster, stone, and ceramics.

331. *Principles of Functional Design*. Both semesters; lecture one hour; studio six hours; three credits each semester. MR. THORNE.

An introductory course in the design of ceramics, weaving, plastics, leather-work, wood-work and the serigraph.

401, 402. *Art and Twentieth Century*. Continuous course; lecture one hour; two hours seminar; three credits each semester. STAFF.

Lectures, discussion, and research concerning the major problems and potentialities of the arts in the contemporary world. A special field, Architecture, Painting, or Sculpture, will be selected for concentrated seminar work in relation to the general art problems considered in the lectures.

404. *Medieval Art*. Second semester; lectures three hours; three credits. MR. NEWMAN.

History of the architecture, painting, and sculpture of the Middle Ages.

405, 406. *Renaissance Art*. Continuous course; lectures three hours; three credits each semester. MR. NEWMAN, MR. THORNE.

The Architecture of the Renaissance in the first semester. Painting of the Renaissance in the second semester. (Alternates with Fine Arts 305, 306. Offered 1964-1965.)

407. *Renaissance Sculpture*. First semester; lectures three hours; three credits. MR. ROSEBERG. (Alternates with Fine Arts 409. Not offered 1964-1965.)

409, 410. *Oriental Art*. Continuous course; lecture three hours; three credits each semester. MR. ROSEBERG.

History of the architecture, painting, and sculpture of the Orient. (Alternates with Fine Arts 304, 407. Offered 1964-1965.)

†411. *Problems in Fine Arts*. Any semester; hours to be arranged; credits according to work done. STAFF.

This course is for the advanced student and is arranged on an individual basis.

415, 416. *Advanced Painting*. Continuous course; studio six hours; three credits each semester. MR. THORNE.

Compositions in various media to be planned for exhibition. The development of original designs from the sketch to completed work in oil, tempera, encaustic and etching.

421. *Ceramics*. First semester; studio six hours; three credits.

A study of the procedures in ceramic art. The use of the wheel and making of glazes. Ceramic sculpture in relief and in the round. A part of the course to include enameling on metal.

422. *Graphic Arts*. Second semester; studio six hours; three credits.

A course in the many ways of print making. The wood-cut, lino-block, etching, lithograph and serigraph will be studied.

All work produced by the students of the studio classes remains the property of the College of William and Mary until released by the appropriate faculty member in charge. The College will not be responsible for theft or damage to such works.

Geology

ASSOCIATE PROFESSOR BICK (*Head of the Department*).

ASSISTANT PROFESSOR GOODWIN. LECTURER STONE.

REQUIREMENTS FOR CONCENTRATION

A concentration in geology requires successful completion of *one* of the following programs:

1. For those students desiring an A.B. degree with a concentration in geology as preparation for law, business, government, or other nonprofessional vocation:

Geology 101, 102, 205, 206, 301, 302, 312, 401, 402, 407
(Geology 201, 202, and 408 may be substituted for
Geology 205, 206, and 312 at the discretion of the
student) (34 credits)

Biology 101, 102 or Chemistry 101, 102 (or Chemistry
111), or Physics 101, 102.

Up to 8 credits of geology may be selected as electives, but it is recommended that the student concentrate electives in one or two fields and thus equip himself with a strong background in a subject(s) other than geology.

2. For those students desiring a B.S. degree who intend to continue geological studies in graduate school or who plan to engage in professional geological work upon completion of their study at William and Mary:

Geology 101, 102, 201, 202, 301, 302, 407, 408, 411, 412
Mathematics through Mathematics 203
Physics 101, 102.

Attention is called to the following courses. In order that the student may be adequately prepared in geology and that the department will be able to give an unqualified recommendation upon graduation, these courses cannot be too strongly urged upon the student.

French or German or Russian as the language distribution requirement

Chemistry 101, 102 and Biology 101, 102

Chemistry 202 and 401 for those oriented to the physical side of geology

Biology 216 and 407 for those oriented to the biological side of geology.

DESCRIPTION OF COURSES

101, 102. *Introductory Physical and Historical Geology.* Continuous course; lectures three hours; laboratory four hours; five credits each semester. MR. GOODWIN and MR. BICK.

The basic principles of the science of Geology. The first semester is a study of the physical aspects of the earth; its composition, structure, and the processes and agencies that modify it, including weathering, streams, subsurface water, glaciers, wind, oceans, and volcanoes. The second semester is an historical study of the earth; its origin, its changing face through time, and the forms of life that have inhabited it.

111, 112. *Earth Science.* Continuous course; lectures three hours, laboratory two hours; four credits each semester. MR. STONE.

Selected subjects in the major earth sciences. Topics in astronomy and geology first semester; oceanography and meteorology second semester. The basic unity of these subjects and their close relationship to the underlying sciences of chemistry and physics is stressed throughout. Recommended for science teachers and elementary teachers. An elective course with no credit in geology. *Not open to students who have taken Geology 101, 102; Geology 111 not open to students who have taken Physics 106 (Descriptive Astronomy.)*

201. *Stratigraphy and Sedimentation.* First semester; lectures three hours; three credits. MR. BICK.

The basic principles governing deposition of sediments and description and interpretation of sedimentary rocks. Two weekends are devoted to field trips.

202. *Structural Geology.* Second semester; lectures three hours; three credits. MR. GOODWIN.

The study of the forces that affect rocks of the earth's crust and the deformation caused by these forces. Two weekends are devoted to field trips.

205. *Stratigraphy—Structure*. First semester; lectures three hours; three credits. MR. GOODWIN.

The origin and interpretation of sedimentary rocks combined with a study of the forces that deform rocks of the earth's crust. No credit for the B.S. concentrator in geology. *Not open to students who have taken either Geology 201 or Geology 202.*

206. *Economic Geology—Fuels*. Second semester; lectures three hours; three credits. MR. GOODWIN.

The origin, distribution, and economics of petroleum, natural gas, and coal. Emphasis is placed on the relationship of fossil fuels to the national interest and to various aspects of international politics, past and present.

301. *Mineralogy*. First semester; lectures three hours, laboratory four hours; four credits. Prerequisites: Chemistry 101, 102 or Chemistry 111; or permission of the instructor. STAFF.

The study of minerals, the fundamental chemical and physical units comprising the earth. Lectures cover theoretical aspects of minerals such as their origin and crystalline structure. The laboratory emphasizes crystallography and various methods of mineral identification. Field trips substitute for some laboratory periods.

302. *Petrology*. Second semester; lectures three hours, laboratory four hours; four credits. Prerequisite: Geology 301. STAFF.

The study of rock genesis, devoted primarily to igneous and metamorphic rocks. Lectures cover theoretical aspects of rock origin such as crystallization of rock melts and solid state reaction in rocks. The laboratory stresses methods of rock identification and nomenclature. Field trips substitute for some laboratory periods.

312. *Economic Geology—Ores*. Second semester; lectures three hours; three credits. MR. GOODWIN.

The origin, distribution, and economics of metallic ore deposits. Emphasis is placed on the relationship of ores to the national interest and to various aspects of international politics, past and present.

401, 402. *History of Geology*. Continuous course; lectures two hours; two credits each semester. MR. BICK.

The development of modern geologic thought. First semester, from the Classical Greeks to 1700; second semester, 1700 to the present. The course treats extensively of the philosophical, as opposed to purely technical, contributions of geology to Western thought and of the conflict between science and religion over such matters as the origin of the earth, age of the earth, and Darwinism.

¹406. *Optical Petrography*. Second semester; laboratory four hours; two credits. Prerequisites: Geology 301 and 302; Physics 101, 102, or permission of the instructor.

The theory and use of the polarizing microscope for identification of crystalline substances.

407. *Geology of the United States*. First semester; lectures three hours; three credits. MR. BICK.

The geology and geologic history of the various subdivisions of the United States. The stratigraphy, structure, physiography, and economic geology of each division is covered.

408. *Paleontology*. Second semester; lectures three hours, laboratory four hours; four credits. Prerequisites: Biology 216 and 407; or permission of the instructor. MR. BICK.

The origin, use, and identification of fossils. Emphasis is placed on the principles of paleontology, on the use of fossils as indicators of past environments, and on fossils as the documentary evidence for organic evolution. Field trips will substitute for some laboratory periods.

¹411, 412. *Problems in Geology*. Continuous course; lectures one hour (seminar course); one credit each semester. Prerequisite: senior standing.

An exploration of various problems in geology, largely through an extensive reading program and one class discussion each week.

¹These courses will be offered for the first time during the session of 1965-66.

Government

PROFESSORS MOSS (*Head of the Department*) and CHOU. ASSOCIATE PROFESSOR FRISCH¹. VISITING ASSOCIATE PROFESSOR ROHERTY. ASSISTANT PROFESSORS EDWARDS, HAMILTON and PETTENGILL. INSTRUCTOR TAYLOR. LECTURER LEACH.

REQUIREMENTS FOR CONCENTRATION

For concentrators Government 201, 202 is a prerequisite for all other Government courses. History 101, 102 and Economics 201, 202 should be taken by all concentrators, but these courses do not count toward the concentration. French is the foreign language preferred and it is expected that students will carry their foreign languages beyond the minimum requirement for distribution.

The Government concentration consists of 42 credits of coherently related work selected by the student with the approval of the department. Thirty credits must be taken under members of the department and must be distributed among them and among the fields of political science such as American Government, Comparative Government, Political Theory, International Relations, Public Administration, and State and Local Government. In his senior year each concentrator must take at least one course numbered over 400. Twelve credits of related work may be taken in Economics, History, and Sociology from among courses numbered over 300. History 201, 202 may be included as related.

DESCRIPTION OF COURSES

201, 202. *Introduction to Government and Politics*. Continuous course; lectures three hours; three credits each semester.
STAFF.

In the first semester the student is introduced to the nature of political problems and the operation of political institutions. Chief attention is given the problems and institutions of the United States but comparisons are made with Britain, Canada, France,

¹On leave of absence, 1963-1964.

and other countries. In the second semester the student will study international relations. Emphasis is given to the concept of peace as a continuous political process rather than as a static condition.

303, 304. *Survey of Political Thought*. Continuous course; lectures three hours; three credits each semester. MR. ROHERTY.

The first semester is a study of the views concerning the nature and purpose of government, the bases for these views in theology and metaphysics, and the influence of these views upon the course of history. The first semester begins with Plato and concludes with Luther, Calvin, and Hooker. The second semester begins with Machiavelli and follows the secularization of politics through to the present neo-religious conflicts of Fascism, Communism, and liberal Democracy.

306. *Political Parties*. Second semester; lectures three hours; three credits. MR. MOSS.

An analysis of the nature, sources, and organization of political power, and of the factors governing its conquest and surrender. The course deals chiefly with American politics but makes comparisons with politics of other countries. Special attention is given the problem of analyzing and reporting political situations.

310. *Government and Politics in the British Isles*. First semester; lectures three hours; three credits. MR. MOSS.

A study of political institutions and political behavior in the United Kingdom and Eire. Special attention is given comparisons with the United States and the parliamentary democracies of the Commonwealth and Western Europe.

311. *European Parliamentary Government*. Second semester; lectures three hours; three credits. MISS HAMILTON.

A study of the operation of parliamentary governments in western Europe. Special attention will be given the government of France.

314. *Political Geography*. Second semester; lectures three hours; three credits. STAFF.

A study of the nature of geographic factors and their influence in politics and international relations.

322. *International Organization*. Second semester; lectures three hours; three credits. MISS HAMILTON.

A study of the development of the structures and procedures of international organization, and of the methods for pacific settlement of international disputes. Special attention will be given the League of Nations and the United Nations and the gains and failures of these organizations.

323, 324. *American Foreign Policy*. Continuous course; lectures three hours; three credits each semester. MISS HAMILTON and MR. TAYLOR.

An historical survey of American diplomatic history from approximately 1776 to the present day. The first semester deals with the period through the first World War; the second semester emphasizes an analysis of those factors which have had an impact on American foreign policy since the second World War, such as the Cold War, the emerging nations of Africa and Asia, and regional developments particularly with respect to Europe. The problem of policy formation will be dealt with also.

331. *Comparative Politics*. First semester; lectures three hours; three credits. MR. TAYLOR.

A comparative approach to the study of politics. Special attention will be given to such problems as totalitarianism and constitutional democracy and to leadership, decision-making and the representation of interests within various political systems.

334. *The Soviet Union*. Second semester; lectures three hours; three credits. MR. CHOU.

A study of the political and economic systems of the Soviet Union and an analysis of the historical roots of Russian political thought in relation to Marxism as interpreted by the Soviets. Attention will be given to Communism as a world movement.

336. *The Far East*. First semester; lectures three hours; three credits. MR. CHOU.

A survey of the national and international politics of China, Japan, Soviet Asia, Indonesia, the Philippines, Siam, Indo-China, Burma and Korea. There will be interpretation of the social, economic, and cultural background of these countries and an

evaluation of the conflict of interests among the Western Powers in Asia. Emphasis is placed upon the period since the first World War and upon the future outlook of Asia.

351. *Public Administration*. First semester; lectures three hours; three credits. MR. PETTENGILL.

A survey of the theory and practice of public administration. Emphasis is placed on the topics of decision-making; organization; and financial, personnel, and judicial administration. Field trips are used for illustrative material.

353. *The Politics of States and Localities*. First semester; lectures three hours; three credits. MR. PETTENGILL.

A study of the principal problem areas, including urbanism, representation, and services. Field trips are scheduled.

354. *Urban Planning and Public Policy*. Second semester; lectures three hours; three credits. MR. PETTENGILL.

A study of the relationship of planning to local government. Emphasis is placed on the development of a master plan, the planning agency, and the objectives of guided urban development. Field trips are arranged.

361, 362. *American Government*. Continuous course; lectures three hours; three credits each semester. MR. EDWARDS.

The theory and practice of American Government, including a study of the fundamental plan of government and problems of public policy. During the first semester emphasis will be placed upon the three branches and their inter-relations. During the second semester the emphasis will be placed upon the federal system and inter-governmental relations.

402. *American Political Thought*. Second semester; lectures three hours; three credits. MR. ROBERTY.

This course consists of a reading and discussion of the *Records of the Federal Convention*, Thomas Paine's *Rights of Man* and the *Age of Reason*, the *Federalist Papers*, Tocqueville's *Democracy in America*, and the selected speeches and writings of Abraham Lincoln, and an attempt to delineate from such works the underlying theoretical problems of the American political tradition.

411. *Problems in Comparative Politics*. First semester; two hours seminar, one hour consultation; three credits. Prerequisites: Government 311 or the consent of the instructor. MISS HAMILTON.

A study of selected problems of comparative politics. These may relate to a given country such as France, or may be concerned with the impact of regional developments on the institutions and politics of the countries under consideration.

412. *Studies in Comparative Politics*. Second semester; two hours seminar, one hour consultation; three credits. Prerequisites: Government 311 or Government 331 or the consent of the instructor. MR. TAYLOR.

A study of the problems of comparative politics such as those involved in political change and in nation-building.

413, 414. *Studies in Political Thought*. Any semester; seminar two hours, consultation one hour; three credits each semester. MR. MOSS and MR. ROHERTY.

A study of the work and significance of a particular great political theorist such as Hobbes, Locke, Rousseau, Burke, or Mill, or of a major movement such as Utilitarian Reformism, English Idealism, or Marxism. The theorist of movement will be chosen by the instructor for the semester. Provided the student does not repeat the study of any particular theorist or movement he may earn not more than six hours credit in this course.

*417, 418. *Seminar in Contemporary Political Theory and Institutions*. Continuous course; seminar three hours; three credits each semester. MR. MOSS.

A study of some aspects of contemporary thought and institutional developments. Original essays will be written by each student and discussed by the class.

424. *International Law*. Second semester; lectures three hours; three credits. (See Marshall-Wythe School of Law, page 191.) MR. CHOU.

A survey of the general principles and theories of international law, coupled with case studies. Emphasis is given to the practice of international law by the major powers as well as to the new problems of international law which have arisen as a result of

recent war. The position of war in international law is also dealt with. The completion of sixty semester credits is a prerequisite for students in this course.

452. *The Administrative Process*. Second semester; lectures three hours; three credits.

A study of decision-making in modern bureaucracy with primary emphasis on United States practice. The functions and dysfunctions of large public service organizations will be dealt with.

461, 462. *The American Constitutional System*. Continuous course; lectures three hours; three credits each semester. MR. EDWARDS.

An analysis of the United States Constitution and its interpretation by the Supreme Court through readings and discussion of cases and essays. The first semester is devoted to jurisprudence, federalism and the separation of powers; the second semester to property and civil liberties.

HONORS STUDY

495, 496. *Honors*. Continuous course; hours to be arranged; three credits each semester. STAFF.

Students admitted to Honors Study in Government will be enrolled in this course during both semesters of their senior year. They will be responsible for (a) reading and discussion of a selected list of books; (d) satisfactory completion by May 1 of an original scholarly essay; (c) satisfactory performance in a comprehensive examination in the field of the student's major interest.

History

PROFESSORS FOWLER (*Head of the Department*), ABBOT, and McCULLY. ASSOCIATE PROFESSORS DONALDSON and JOHNSON. ASSISTANT PROFESSORS ESLER, ORLOW, SHERMAN and TATE. INSTRUCTOR GRUBER. LECTURERS CAPPON, CARSON, RILEY, SELBY, and SMITH.

REQUIREMENTS FOR CONCENTRATION

Concentration in History requires 30 semester credits in his ory, including History 101, 102, 201 and 202, taught by regular members of the department or by lecturers from the Institute of Early American History and Culture.

French and German are recommended for students planning to concentrate in history.

DESCRIPTION OF COURSES

EUROPEAN HISTORY

101, 102. *History of Europe*. Continuous course; lectures three hours; three credits each semester. MR. FOWLER, assisted by MISS DONALDSON, MR. ESLER, MR. JOHNSON, MR. McCULLY, MR. ORLOW, MR. SHERMAN and MR. TATE.

A general introduction to the history of Europe from the end of the Roman Empire to the present time. The first semester goes to 1715; the second, from 1715 to the present day.

301, 302. *The Ancient World*. Continuous course; lectures three hours; three credits each semester. MR. RYAN.¹

Ancient civilization from prehistoric times to the downfall of the Roman Empire. The first semester deals with the ancient Orient and Greece, up to B.C. 338; the second semester deals with Alexander, the Hellenistic World and Rome. (Same as Greek 311-Latin 312. The course cannot be counted for concentration in history.)

¹Professor of Ancient Languages.

407, 408. *Europe and the French Predominance in the Seventeenth and Eighteenth Centuries.* Continuous course; lectures three hours; three credits each semester. MR. McCULLY.

After an examination of sixteenth century Europe, the course traces the political and cultural development of France and its expansion overseas from the Renaissance to the Age of Enlightenment.

409, 410. *England Under the Tudors and Stuarts.* Continuous course; lectures three hours; three credits each semester. Prerequisites: History 101, 102. MR. FOWLER.

The first semester, 1485-1603; the second semester, 1603-1714.

412. *Constitutional History of Modern England.* Second semester; lectures three hours; three credits. MR. McCULLY.

A survey of English constitutional development from the end of the Middle Ages to the present. The course stresses the Tudor strong monarchy, the conflict of Crown and Parliament under the Stuarts, the Revolution of 1688 and the establishment of the limited monarchy, the rise of cabinet government, the growth of democracy, and the development of the civil service. (See Marshall-Wythe School of Law, page 189.)

417, 418. *The British Empire.* Continuous course; lectures three hours; three credits each semester. MR. McCULLY.

First semester, the formation and development of the old Colonial Empire through the American Revolution. Second semester, the rise of the new Empire through the nineteenth and twentieth centuries to the establishment of the British Commonwealth of Nations.

419, 420. *Contemporary Europe.* Continuous course; lectures three hours; three credits each semester. Prerequisite: History 102. MR. ORLOW.

First semester, 1900-1933, the background of World War I, the course of the War, the Russian Revolution and the establishment of the Bolshevik regime, and the rise of the radical right in Western and Central Europe. Second semester, 1933—present, the failure of appeasement, World War II and the inter-Allied conferences, and the emergence of the Western European Union.

427, 428. *Europe, 1815-1914*. Continuous course; lectures three hours; three credits each semester. Prerequisites: History 101, 102. MR. ESLER.

Emphasis on the political and intellectual history of western and eastern Europe.

431, 432. *Russia and the Soviet Union*. Continuous course; lectures three hours; three credits each semester. Prerequisites: History 101, 102. MR. ESLER.

The political, economic and intellectual development of Russia in the nineteenth and twentieth centuries.

433, 434. *Modern Germany*. Continuous course; lectures three hours; three credits each semester. Prerequisite: History 102. MR. ORLOW.

First semester, 1786-1871, after a brief review of Prussia's rise to great power status, stresses the impact of the French Revolution on Germany, and the road to German unification. Second semester, 1871-1945, the rise and fall of the German Empire, the republican interlude, and the rise and collapse of the Third Reich.

AMERICAN HISTORY

201, 202. *American History*. Continuous course; lectures three hours; three credits each semester. MR. JOHNSON, assisted by MR. ABBOT, MR. GRUBER, MR. SHERMAN and MR. TATE.

The development of the United States. Special emphasis is placed on the period since 1776.

*402. *Topics in Modern History*. Second semester; lectures three hours; three credits. STAFF.

A seminar course which offers the student an opportunity for supervised but independent study and research. Its primary purpose will be to introduce the student to the resources of the library and to give him practice in the presentation of historical material in both written and spoken form.

403. *Virginia, the Colony*. First semester; lectures three hours; three credits. MR. TATE.

Colonial Virginia will be studied with an eye to the emergence and shaping of political, economic and social institutions in the context of Colonial America.

405, 406. *Early American History*. Continuous course; lectures three hours; three credits each semester. 405, MR. ABBOT, 406, MR. TATE.

The Colonial Period, Revolution and Confederation, the Federalist and Jeffersonian Eras. Special stress is laid on the ideas and institutions which developed in British North America and which, in the course of the struggle for independence and the formation of the union of states, emerged as a distinctive national culture. The course divides at the year 1763.

421, 422. *The United States, 1815-1877*. Continuous course; lectures three hours; three credits each semester. MR. JOHNSON.

An intensive survey of the origins, development, and outcome of the struggle between the North and South.

423, 424. *The United States Since 1877*. Continuous course; lectures three hours; three credits each semester. MR. SHERMAN.

The emergence of the United States as an industrial and world power.

429. *The Forming of the American Constitution*. Second semester; lectures three hours; three credits. MR. TATE.

Special attention is given to the Revolutionary period, 1763-1775, to the Constitutional Convention of 1787, and to the influence of John Marshall in the early nineteenth century. (Not offered in 1963-64.)

HONORS STUDY

495, 496. *Honors*. Continuous course; hours to be arranged; three credits each semester. STAFF.

Students admitted to Honors Study in History will be enrolled in this course during both semesters of their senior year. Each candidate will be responsible for (a) reading and discussion of a selected list of books in some specific area of historical literature, (b) a scholarly essay by May 1, (c) a comprehensive oral examination.

GRADUATE COURSES

†501, 502. *The Literature of American History*. Continuous course; lecture three hours; three credits each semester. STAFF.

This course is designed to acquaint the graduate student with the extensive and important body of literature dealing with American history and also to aid the student in a critical evaluation of that literature. History 501 will cover the outstanding historical writings on early American history (1607-1815); History 502 will cover the literature of nineteenth and twentieth century America.

†503. *Historical Method*. First semester; lectures three hours; three credits. MR. CAPPON.

A course combining the bibliography, the methods and practice of research in American history and its British background.

†505. *Seminar in American History Before 1815*. Second semester; lectures three hours; three credits. STAFF.

†506. *Seminar in American History, 1815-1877*. Second semester; lectures three hours; three credits. MR. JOHNSON.

†508. *Seminar in Recent American History*. Second semester; lectures three hours; three credits. MR. SHERMAN.

†560. *Thesis*. Hours to be arranged. STAFF.

Work in preparation of a thesis to fulfill the requirements for the degree of Master of Arts in history.

PROGRAM FOR THE MASTER OF ARTS DEGREE IN HISTORY

The College is in an unusually fortunate position to offer work in American history at the master's level. There are important and growing collections of primary and secondary materials in the libraries of the College, Colonial Williamsburg, and the Institute of Early American History and Culture. The City of Williamsburg and the surrounding country furnish an inspiring background. Closely associated with the Department of History in this program are the members of the staff of the Institute (sponsored jointly by the College and Colonial Williamsburg, Incorporated), and the members of the staff of the Research Department of Colonial Williamsburg.

ADMISSIONS AND REQUIREMENTS

Candidates for admission to graduate study shall have a bachelor's degree from the College of William and Mary or from a college having similar requirements for the bachelor's degree and at least a B average in their undergraduate work. They must apply for admission to the Dean of Admissions as early as possible (for the session 1964-1965, by May 15, 1964). The application must be approved by the Committee on Graduate Studies and by the head of the Department of History. An interview with a member of the Department is most desirable.

Candidates for the degree must be in residence for at least two semesters and, in addition to History 560 (Thesis), must obtain 24 semester credits in courses above the 300 level with a grade of B or better in each course, including 501, 502, 503, and one additional 500 course. Candidates must demonstrate a reading knowledge of one foreign language, prepare a thesis, and pass an oral comprehensive examination to be taken at least two weeks before the regular semester examinations. Graduate students enrolled in advanced courses opened to undergraduates shall be required to do additional work on the graduate level. Each graduate student shall have a faculty supervisor who will be primarily responsible for the student's choice of a thesis subject and for advising him regarding research and writing problems encountered in preparing the thesis. All thesis subjects must be approved by the head of the Department.

The records of graduate students will be reviewed by the Department at the end of the first semester of residence to determine final acceptance as candidates for the degree of Master of Arts.

CURRICULUM

Besides the advanced courses in American History, the Department offers eighteen semester hours in advanced courses in European History closely related to American History and, hence, wholly acceptable as part of the program for the Master of Arts degree.

COMBINED MASTER OF ARTS DEGREE AND
APPRENTICESHIP PROGRAM

The History Department of the College of William and Mary also offers a combined program of academic study for the degree

of Master of Arts in American History and practical training in historical administration, in cooperation with the Institute of Early American History and Culture, and Colonial Williamsburg, Incorporated. The three fields in which apprenticeship training is available are: Editing Historical Books and Magazines (Institute of Early American History and Culture); Operations of an Historical Library (The College Library and the Library of Colonial Williamsburg, Incorporated; and the Interpretation of Historical Sites (Colonial Williamsburg, Incorporated). The training program adds approximately five months time to the M.A. program.

Home Economics

ASSOCIATE PROFESSOR WILKIN (*Head of the Department*).

ASSISTANT PROFESSOR T. MILLER.

The purpose of the Home Economics Department is to offer courses in homemaking that will be useful to the student in her own home. At the same time these courses are planned to relate to and supplement instruction which the student receives in many of the courses given in other departments.

201. *Home Living*. Either semester; lectures three hours; three credits. MRS. MILLER.

This is an introductory course in which the significance of foods and nutrition, textiles and clothing, art in the home, home management, and consumer education is presented. Historic and contemporary patterns of home living are studied.

209. *Foods: Principles of Preparation*. First semester; lecture one hour, laboratory four hours; three credits. MRS. MILLER.

A study is made of the fundamental principles of food preparation, conservation of nutritive values during cooking, and aesthetic factors in family meals.

210. *Foods: Meal Planning and Dining Customs*. Either semester; lecture one hour, laboratory four hours; three credits. MRS. MILLER.

This course includes the serving of family meals and special meals, menu planning at different levels of cost, marketing, organizing, preparation and creating aesthetic atmosphere.

301. *Nutrition and Physical Fitness*. Second semester; lectures three hours; three credits. MRS. MILLER.

Basic nutritional knowledge applicable to achieving optimal health is stressed. Malnutrition in the United States and the world, and national and international activities for improving the nutrition of entire populations are studied.

307. *Clothing Construction*. Either semester; laboratory six hours; three credits. MISS WILKIN.

The chief objectives of this course are the development of standards by which to achieve satisfactory results in clothing construction, the selection of fabrics and style, and the use of modern tools.

308. *Special Problems in Clothing Construction.* Either semester; laboratory six hours; three credits. MISS WILKIN.

A knowledge of basic procedures in sewing is required. Fundamentals of pattern making will be studied. Individual problems will be selected on consultation with the instructor. Tailored coats and suits, dress designs involving intricate work, including hand sewing and hand decoration or other special problems may be chosen.

309. *Textiles.* First semester; lectures three hours; three credits. MISS WILKIN.

The place of textiles in the domestic, industrial and commercial world is stressed. Natural and man-made fibers are studied as to characteristics, limitations, and care of each. The construction decoration, finishes, and the probable durability of each are evaluated.

310. *Textile Design and Decoration.* Second semester; lectures two hours, laboratory two hours; three credits. MISS WILKIN.

Notable historic textiles are studied noting their artistic quality, the symbolic art forms, and the influence of these on contemporary textile decoration. Museum prints and plates, as well as collections of Colonial Williamsburg are used as illustrative material.

425. *Home Furnishing and Decoration: America.* Second semester; lectures three hours; three credits. MISS WILKIN.

A study is made of American homes and their prototypes in England and Europe. Authentic features in exterior and interior design, furnishings and accessories for such periods as Early American, Georgian, Victorian, and Contemporary are stressed.

326. *Home Furnishing and Decoration. Historic.* Either semester; lectures three hours; three credits. MISS WILKIN.

A study is made of style, decoration, furnishings and artistic merits of homes from ancient Egypt to the present. The study follows the development of culture and reveals the life of the people.

327. *Historic Costume*. First semester; lectures three hours; three credits. MISS WILKIN.

A study is made of dress as it parallels the development of civilization and reflects social, religious, political and economic conditions. Today's styles are studied for parallels with those of the past.

329. *Home Management*. Either semester; lectures three hours; three credits. MRS. MILLER.

A study is made of organizing the household and planning the daily activities to conserve material and human resources and to provide a satisfying background for pleasant family living.

431. *Consumer Education*. Either semester; lectures three hours; three credits. MRS. MILLER.

The position of the consumer as a buyer in the contemporary economic order is studied. Standards, grades, labels, budgeting, owning versus buying a home, aids from Federal bureaus and certificating agencies are discussed. Family financial problems throughout the entire life cycle are stressed.

Humanities

PROFESSOR EVANS. ASSOCIATE PROFESSOR KALLOS.

201, 202. *Literature*. Continuous course; lectures three hours; three credits each semester.

An introduction to the interpretation and evaluation of major works of literature, in English. About ten works are studied, including portions of the Bible, a classical epic, several Greek and Shakespearean dramas, and representative novels, plays and poems of various ages and cultures.

Marshall-Wythe School of Law¹

THE FACULTY

DUDLEY WARNER WOODBRIDGE, A.B., J.D., *Dean Emeritus and
Chancellor Professor of Law*

JOSEPH CURTIS, B.S., LL.B., LL.M., *Professor of Law and Acting
Dean*

ARTHUR WARREN PHELPS, A.B., M.A., LL.B., LL.M., *Professor
of Law*

THOMAS CONNER ATKESON, B.S., M.S., Ph.D., *Professor of
Taxation*

JAMES PRIMROSE WHYTE, JR., A.B., M.A., LL.B., *Professor of Law*

WILLIAM FINLEY SWINDLER, A.B., B.S., M.A., Ph.D., LL.B.,
Professor of Legal History

EDWIN BLYTHE STASON, JR., A.B., M.A., LL.B., LL.M., *Assistant
Professor of Law*

CHARLES HARPER ANDERSON, A.B., B.C.L., LL.M., *Lecturer*

HARRY E. ATKINSON, *Lecturer*

JOHN E. DONALDSON, A.B., B.C.L., *Lecturer*

ANNA BOOTHE JOHNSON, B.S., *Law Librarian*

JOSEPH MARSHALL CORMACK, A.B., LL.B., J.S.D., *Professor of
Law Emeritus*

PARTICIPATING STAFF MEMBERS FROM OTHER DEPARTMENTS

I-KUA CHOU, LL.B., A.M., Ph.D., *Professor of Government*

BRUCE TIEBOUT McCULLY, A.B., M.A., Ph.D., *Professor of
History*

ANTHONY L. SANCETTA, A.B., M.S., Ph.D., *Professor of Economics*

¹See also Marshall-Wythe School of Law Bulletin, 1963-1964.

HISTORY

The School of Law was originally established December 4, 1779, when, by resolution, the Board of Visitors created a professorship of Law and Police. Antedated by the Vinerian professorship at Oxford, established twenty-one years earlier and held by Sir William Blackstone, and perhaps by the chair at Trinity College, Dublin, the chair of law at the College of William and Mary thus became one of the earliest in the English-speaking world and the oldest in the United States.

The part played by Thomas Jefferson in placing laws among the subjects taught at his *Alma Mater* is told briefly in his *Autobiography*.¹

On the 1st of June, 1779, I was appointed (elected) Governor of the Commonwealth and retired from the legislature. Being elected also one of the Visitors of Wm. & Mary College, a self-electing body, I effected during my residence in Williamsburg that year, a change in the organization of that institution by abolishing the Grammar School, and the two professorships of Divinity & Oriental languages, and substituting a professorship of Law & Police, one of Anatomy, Medicine and Chemistry, and one of Modern Languages; and the charter confining us to six professorships, we added the law of Nature & Nations, & the Fine Arts to the Duties of the Moral professor, and Natural history to those of the professor of Mathematics and Natural philosophy.

The Board of Visitors elected as the first law professor George Wythe in whose office Jefferson had studied. A signer of the Declaration of Independence and styled by Jefferson the American Aristides, Wythe was a judge of the Virginia High Court of Chancery and one of the earliest judges to enunciate the doctrine of judicial review.

The elevation of Wythe to the sole chancellorship of Virginia, ten years after the chair of law was established, necessitated his removal to Richmond and his resignation from the faculty. He was succeeded by St. George Tucker, whose edition of Blackstone is a legal classic and one of the first law books published in America.

¹Ford's edition, I, 69-70.

Among the last to hold the professorship at Williamsburg prior to 1861 was Lucian Minor, a member of another Virginia family intimately associated with the law.

Soon after its foundation, and probably from the very beginning, the law school of the College of William and Mary demanded an academic baccalaureate degree as a requirement for a law degree, the College statutes compiled in 1792 providing:

For the degree of Bachelor of Law, the student must have the requisites for Bachelor of Arts; he must moreover be well acquainted with Civil History, both Ancient and Modern and particularly with Municipal law and police.

In May, 1861, with the closing of the College, because of the exigencies of war, the law school ceased to function. When the College resumed operation, financial stringency resulted in the granting of leaves of absences to some of the faculty. Among these was the professor of Law. This leave of absence continued indefinitely. During the precarious years in the life of the institution following the Civil War the Law School remained largely dormant. Its revival, begun in 1920, was completed with the session of 1922-23.

The School of Law is registered by the State Department of Education of the University of the State of New York, is approved by the American Bar Association, and is a member of the Association of American Law Schools.

LIBRARY

The Library of the Marshall-Wythe School of Law contains 32,353 volumes, and includes the National Reporter System, the American Digest System, all the Reports of the Supreme Court of Appeals of Virginia, all the United States Supreme Court Reports, and up-to-date statutes for Virginia and most of the adjacent and important commercial states. Also available are legal periodicals, session laws, state and municipal codes, digests, general and legal dictionaries and encyclopedias, texts, citators, and reports of many courts of last resort. The Law Library is administered by the Law Librarian, and during the regular session is open a total of 100 hours per week.

WILLIAM AND MARY LAW REVIEW

The *William and Mary Law Review* is published semi-annually by the students of the School of Law with the cooperation of the faculty. Its primary objective is to provide an opportunity for student legal composition. The editor each year is a student selected by the faculty who is aided by an editorial board. The editors in 1963-1964 were SHEPARD W. MCKENNEY, graduated in February, 1964, and GREGORY U. EVANS, serving the remainder of the session.

PRE-LEGAL STUDIES

While no specific academic subjects, apart from the general requirements for the baccalaureate degree, are required for admission to the School of Law, students who expect to proceed to the law degree are urged to complete the general degree requirements before commencing the work in Law. It is recommended that such students consult with the pre-legal adviser of the School as early in their college careers as possible regarding the scope and distribution of their academic work.

ADVANCED CREDIT

Within the discretion of the faculty of the School, credit may be allowed for subjects satisfactorily completed at approved law schools, not to exceed the equivalent of 60 semester credits.

EXCLUSION BECAUSE OF POOR SCHOLARSHIP

Any student who has been admitted to candidacy for the degree of Bachelor of Civil Law and who does not maintain a quality point average of at least 1.0, or who fails more than five hours in any semester will be permitted to continue his course only with the consent of the faculty of the School.

DEGREE REQUIREMENTS

THE BACHELOR OF ARTS DEGREE—SIX YEARS
COMBINED COURSE

Students who have completed three years of pre-legal work will be awarded the Bachelor of Arts degree on the satisfactory completion of the first year's work in law. The pre-legal work may be done in any accredited college or university provided that



The William and Mary Choir

A Scene from Our Town, William and Mary Theater





Language Laboratory

the requirements of the College of William and Mary as to the nature and quality of the work are met. By proceeding in this way it is possible for students to receive both their arts and law degrees within a period of six academic years. For further detail regarding this program, see sub-heading Combined Six-Year Program at page 198.

THE BACHELOR OF CIVIL LAW DEGREE

Students holding an academic baccalaureate degree from an institution of approved standing, who have been in residence in the Law School for at least ninety weeks (or, in case advanced credit has been allowed have been in residence in this school at least during their last year), who have completed satisfactorily at least ninety semester credits in law with a quality point average of 1.0 or better in *all* the law work undertaken, and who have demonstrated their ethical fitness, will receive the degree of Bachelor of Civil Law (B.C.L.), the historic law degree of the College of William and Mary in Virginia. This degree is a professional degree in law and the equivalent of the more usual bachelor of laws degree.

MISCELLANEOUS INFORMATION

Method of Instruction. While each instructor has full liberty to adopt his method of teaching, the plan most generally used consists of the discussion of cases and legal problems. Students are encouraged from the beginning to make the fullest use of the law library.

Scholarships and Prizes. Matthew Gault Emery Law Scholarship, the Virginia Trust Company Will Draftmanship Contest, the Lawyers Title Insurance Corporation Award, the Seidman & Seidman Tax Award, the William A. Hamilton Prize, and the William A. R. Goodwin Memorial Fund Scholarship. See page 322.

ADMISSION REQUIREMENTS

The following persons may be admitted to courses in Law:

1. Students holding an academic baccalaureate degree from an institution of approved standing who have the equivalent of a 1.3 average in all work taken and a satisfactory score on the Law School Admission Test given by the Educational Testing Service

of Princeton, New Jersey, may enter the School of Law and take any subject or course of study approved by the Dean of the School; provided, however, that students who are candidates for the degree of Bachelor of Civil Law shall follow the regular course of study.

2. Undergraduate students who desire to be admitted to courses in law must have finished three-fourths of the work and must have earned three-fourths of the quality points required for a baccalaureate degree within a period not exceeding seven and one-half semesters. For further detail regarding law credit for such courses, see sub-heading combined six-year program at page 198.

3. Students of academic junior standing who have completed one-half of the work and who have earned one-half of the quality points required for a baccalaureate degree within a period not exceeding five semesters may take a limited amount of work for elective credit (but not for law credit), with the consent of the Dean of the School.

4. Within the discretion of the faculty of the School, persons of exceptional promise who fail to meet the above requirements may be admitted as special students¹ and may take subjects in law approved by the Dean of the School.

Any person who is not in good standing, academically or otherwise, at any institution previously attended will not be eligible for consideration for admission.

Subject to the above provisions, registration is the same as for the College at large. Inquiries should be addressed to the Dean of The Law School.

Course of Study

ALL FIRST AND SECOND YEAR COURSES ARE REQUIRED

FIRST YEAR

<i>First Semester</i>	<i>Credits</i>	<i>Second Semester</i>	<i>Credits</i>
Agency.....	2	Criminal Law.....	3
Civil Procedure.....	5	Legal Writing.....	2
Contracts.....	4	Negotiable Instruments.....	3
Property I.....	4	Property II.....	3
		Torts.....	4
	—		—
	15		15

¹The number is limited in accordance with the recommendation of the Legal Education Section of the American Bar Association.

SECOND YEAR

<i>First Semester</i>	<i>Credits</i>	<i>Second Semester</i>	<i>Credits</i>
Appellate Briefing	1	Constitutional Law	4
Business Associations	4	Creditors' Rights	4
Evidence	3	Family Law	2
Federal Income Tax Law	3	Legal Profession	2
Trusts and Estates	4	Conflict of Laws	3
	15		15

THIRD YEAR

Electives totalling at least 15 hours credit in each of the two semesters to be selected from the following courses:

<i>First Semester</i>	<i>Credits</i>	<i>Second Semester</i>	<i>Credits</i>
Administrative Law	3	Adjective Tax Law	2
Equity	2	Advanced Income Taxation	4
Estate and Gift Taxation	3	Constitutional History of	
Labor Law	3	Modern England (Hist. 412) ..	3
Legal History	3	Federal Taxation ¹	3
Legal Philosophy	3	Government and Business	
Legal Research ²	—	Enterprise (Bus. 426)	3
Survey of Tax Literature	3	International Law (Govt. 424) ..	3
Tax Administration and		Legal Accounting	3
Procedure	3	Legal Research ²	—
Tax Research	—	Legislation	2
Trial and Appellate Court		Municipal Corporations	3
Practice	3	Preparation of Tax Forms	2
		Sales	2
		State and Local Taxation	3
		Tax Research	—
		Virginia Procedure	3

DESCRIPTION OF COURSES

Adjective Tax Law. Second semester; conferences two hours; two credits. MR. CURTIS.

Application of *res judicata*, estoppel, equitable and statutory recoupment doctrines in tax litigation; jurisdiction of the courts in tax matters; nature and burden of proof, civil and criminal; tax liens, transferee liability, and other matters pertinent to collection of taxes.

¹May be taken in lieu of, but not in addition to, Federal Income Tax Law.

²Not more than 3 hours total credit toward fulfillment of degree requirements.

Administrative Law. First semester; lectures three hours; three credits. MR. ATKINSON.

Economic and social forces in regulatory action by administrative tribunals; rule-making and adjudicative procedures by federal and state administrative tribunals and the remedies against administrative action.

Advanced Income Taxation. Second semester; lectures four hours; four credits. MR. ATKESON.

Corporate reorganizations, distributions and capital transactions; corporate income of foreign origin; comparative analysis of tax treatment accorded regular corporations and special classes of corporations and organizations; pension and profit sharing plans; partners and partnerships.

Agency. First semester; lectures two hours, two credits. MR. WHYTE.

Liability of employer for unauthorized acts of his employees, of employer to employee under common law and statute, power of employee to bind employer in contract and tort, undisclosed principals, ratification and termination of the representative relation.

Appellate Briefing. First semester; lectures and conference one hour; one credit. MR. WHYTE.

Preparation of a written brief and oral argument of a selected civil or criminal case before a court composed of faculty members or members of the local bar and bench.

Business Associations. First semester; lectures three hours; three credits. MR. PHELPS.

Comparison of corporations with other business units, disregard of corporate fiction, formation of a corporation, pre-incorporation agreements, management, control, distribution of earnings, derivative suits.

Civil Procedure. First semester; lectures five hours; five credits. MR. ANDERSON.

Common law actions, suits in equity, contemporary judicial organization, code pleading, the Rules of Civil Procedure for the

United States Districts Courts, trial practice, and an introduction to the basic rules of evidence.

Conflict of Laws. Second semester; lectures three hours; three credits. MR. STASON.

Doctrines of renvoi, characterization and localization; local and territorial rights theories; effect of the full faith and credit, due process, equal protection, and privileges and immunities provisions of the Federal Constitution when the facts of a situation involve more than one state or country; divorce in other than the marriage domicile jurisdiction.

Constitutional History of Modern England. Second semester; lectures three hours; three credits. MR. McCULLY. (This is Hist. 412 in College Catalogue.)

Survey of English constitutional developments from the end of the Middle Ages to the present; the Tudor strong monarchy, the conflict of Crown and Parliament under the Stuarts, the Revolution of 1688 and the establishment of the limited monarchy, the rise of cabinet government, the growth of democracy, and the development of the civil service.

Constitutional Law. Second semester; lectures four hours; four credits. MR. WHYTE.

Judicial function in constitutional cases, division of powers and relationships between the states and the Federal Government, national and state citizenship and protections afforded individual rights.

Contracts. First semester; lectures four hours; four credits. MR. WOODBRIDGE.

Offer and acceptance, consideration, seals, conditions, anticipatory repudiation, damages, impossibility, third party beneficiaries, assignments, discharge, illegality, statute of frauds.

Creditors Rights. Second semester; lectures four hours; four credits. MR. STASON.

Priority of claims in bankruptcy, reorganization and other insolvency proceedings; processes in the trustee's securing and distribution of assets; nature and characteristics of real and personal property securities.

Criminal Law. Second semester; lectures three hours; three credits. MR. WHYTE.

Substantive elements of the principal crimes, imputability and responsibility, proceedings preliminary to trial, introduction to the administration of criminal law, defenses and rights of persons accused of crimes, professional responsibility in the practice of criminal law.

Equity. First semester; lectures two hours; two credits. MR. STASON.

Injunctions, receiverships, specific enforcement, and other effective methods of equitable enforcement; decrees clearing title; requisites of equitable processes; superseding remedies at law.

Estate and Gift Taxation. First semester; lectures three hours; three credits. MR. CURTIS.

Concepts of gross estate, gross gifts, deductions and credits, with consideration given to the tax aspect of estate planning.

Evidence. First semester; lectures three hours; three credits. MR. PHELPS.

Competency of witnesses, examination of witnesses, creditability, hearsay, searches and seizures, scientific evidence, circumstantial proof, burden of proof, protection of confidential relationships, privilege against self-incrimination and the protection of state secrets.

Family Law. Second semester; lectures two hours; two credits. MR. PHELPS.

The contract to marry, marriage, annulment, including statutory grounds and defenses; divorce, including jurisdiction, statutory grounds and defenses; separation agreements; alimony; custody of children.

*Federal Income Tax Law*¹. First semester; lectures three hours; three credits. MR. CURTIS.

Concepts of income, exclusions, exemptions, deductions and credits, consideration of basis, capital gains and losses, tax-

¹Federal Income Tax Law and the Federal Taxation course can be taken only in the alternative and credit for both will not be allowed.

deferred exchanges, and other transactions accorded specialized treatment; jurisprudential and mechanics of reporting aspects considered.

*Federal Taxation*¹. Second semester; lectures three hours; three credits.

Structure of the Federal income, social security, estate and gift tax bases; reconciliation of tax and accounting concepts; tax credits and tax computations.

Government and Business Enterprise. Second semester; lectures and conference three hours; three credits. MR. SANCETTA. (This is Bus. 426 and Econ. 426 in College Catalogue.)

Economic, legal, and political aspects of government regulation of, aid to, and competition with private business.

International Law. Second semester; lectures three hours; three credits. MR. CHOU. (This is Govt. 242 in College Catalogue.)

Survey of the general principles and theories of international law, coupled with case studies; the practice of international law by the major powers and the new problems of international law which have arisen as a result of recent war; the position of war in the international law.

Labor Law. First semester; lectures three hours; three credits. MR. WHITE.

Rights of workers to strike, picket and boycott, administration of the National Labor Relations Act, as amended, representation, organizational procedure, arbitration and other processes of collective bargaining.

Legal Accounting. Second semester; lectures three hours; three credits.

Survey of the general field of accounting, incorporating principles of double-entry bookkeeping, basic accounting for corporations and small business firms, and analysis of financial statements.

Legal History. First semester; lectures three hours; three credits. MR. SWINDLER.

¹Federal Income Tax Law and the Federal Taxation course can be taken only in the alternative and credit for both will not be allowed.

Developments prior to the English common law; historical evolution of common law within the English political system; significance of the works of Bracton, Fortescue, Coke and Blackstone; "reception" of the common law in the New World; influence of American constitutional systems upon legal institutions; significance of the work of Kent, Story and Field; factors influencing reform and restatement of the law in the nineteenth and twentieth centuries.

Legal Philosophy. First semester; lectures three hours; three credits. MR. PHELPS.

Legal institutions; the general theory of law, law and the social sciences, law and general philosophy. (Not offered 1963-64.)

Legal Profession. Second semester; lectures two hours; two credits. MR. SWINDLER.

The organized bar in England and America; general problems of judicial organization and administration; ethical principles governing office practice and trial practice; relationships with clients; relationships with lawyers and non-lawyers in practice; special problems of corporation counsel; problems of state's attorneys; public service responsibilities of lawyers.

Legal Research. Any semester; hours to be arranged; credit according to work done.

With the approval of the Faculty and to a limited degree, topics in legal research may be substituted for formal courses.

Legal Writing. Second semester; lectures two hours; two credits. MR. PHELPS.

The use of law books, the analysis and head-noting of cases, the preparation of legal memoranda and the commoner types of pleading and other legal documents.

Legislation. Second semester; lectures two hours; two credits. MR. PHELPS.

Organization and operation of legislative bodies, enactment of measures, amendments, revision and repeal, interpretation of statutes, canons of construction, context, punctuation, use of

extrinsic aids such as legislative history and committee reports, drafting of statutes, ordinances and administrative regulations.

Municipal Corporations. Second semester; lectures three hours; three credits. MR. SWINDLER.

Origin, nature and powers of local government units; state-local and Federal-local relationships; property rights of municipal corporations and municipal corporations' rights over private property; zoning and land use controls; condemnation procedures; urban redevelopment; controls of streets and highways, including limitations of access to abutting property.

Negotiable Instruments. Second semester; lectures three hours; three credits. MR. WOODBRIDGE.

The concept of negotiability and the requirements therefor, transfer, the holder in due course, equities and defenses, liability of parties, discharge, together with a brief survey of suretyship.

Preparation of Tax Forms. Second semester; lectures two hours; two credits. MR. ATKESON.

The pattern and content of all major types of Federal tax forms, including all required of business in the payroll and excise tax fields; the application of the forms to various personal and commercial situations; and, problems requiring return preparation as a supplement to the course in Federal Income Tax Law.

Property I. First semester; lectures four hours; four credits. MR. WOODBRIDGE.

Acquisition of title to personalty, problems in possession, gifts of personalty, estates in land, concurrent ownership, introduction to future interests.

Property II. Second semester; lectures three hours; three credits. MR. ANDERSON.

Modern land transaction, recording acts, methods of controlling the use of land, easements and licenses, and rights incident to land ownership.

Sales. Second semester; lectures two hours; two credits.
MR. CURTIS.

Express warranties, implied warranties of title and quality, passage of title, risk of loss, documents of title, and remedies of buyer and seller; common law, Uniform Commercial Code, and Uniform Sales Act treatment of the issues is compared.

State and Local Taxation. Second semester; lectures three hours; three credits. MR. CURTIS.

Limitations under the commerce, due process and equal protection clauses of the Federal Constitution; state and local franchise, income, sales, property and inheritance taxes are considered with some emphasis on those of Virginia.

Survey of Tax Literature. First semester; lectures three hours; three credits. MR. ATKESON.

The historical development of tax theory and policy; the nature and sources of current tax law; the proper use of published materials in the consideration of tax matters; and, a familiarization with the work of modern writers in the field of taxation.

Tax Administration and Procedure. First semester; lectures three hours; three credits. MR. ATKESON.

Statutory procedures as enacted in Subtitle F of the Internal Revenue Code of 1954; regulations and processes issued under the authority of Subtitle F; organizational and operational aspects of the Internal Revenue Service; and, procedures to be followed by taxpayers and their representatives in the audit and settlement of tax matters prior to court litigation.

Tax Research. Either semester; conferences to be arranged; credit according to work done. MR. ATKESON.

Experiments in tax law and regulations drafting; preparation of papers by students on matters of current significance in the tax field. (This course is open only to candidates for the Master's degree.)

Torts. Second semester; lectures four hours; four credits.
MR. WOODBRIDGE.

The concept of tort liability; assault and battery, false imprisonment, trespass to land and personalty, negligence, deceit, defamation, malicious prosecution, trover and conversion.

Trial and Appellate Practice. First semester; lectures three hours; three credits. MR. WYTE.

Procedural aspects of trials and appeals of civil cases, trial of events in the community or on campus having the elements of a law suit, preparation and argument of moot cases on the appellate level.

Trusts and Estates. First semester; lectures four hours; four credits. MR. STASON.

Testate and intestate succession; preparation and execution of wills and trusts; administration of estates; time rules and the use of intervivos and testamentary trusts; charitable trusts.

Virginia Procedure. Second semester; lectures three hours; three credits. MR. PHELPS.

Study of the law rules concerning the notice of motion for judgment, response, pleas in abatement, grounds of defense, counter-claim, reply, summary judgment, pre-trial procedure, depositions and finality of judgment; equity rules concerning the bill of complaint, response, replication, pleas in abatement, cross-bill, intervenors, finality of decrees and injunctions.

THE DEGREE OF MASTER OF ARTS IN TAXATION

The School of Law in cooperation with the Departments of Business Administration and Economics offers a program of studies leading to a degree of Master of Arts in Taxation. This course of study is designed for students of exceptional ability who are doing the major portion of their work in Business, Economics, or Law.

To be eligible for this degree, the candidate must have completed the requirements for a baccalaureate degree and must pursue his studies satisfactorily for at least one more year. The following subjects are required: *Freshman Mathematics* (Math. 103-4); Business Administration courses in *Financial Management* (Bus. 323), and either *Principles of Accounting* (Bus. 201-2)

and *Intermediate Accounting* (Bus. 301-2) or *Legal Accounting* (Law); Economics courses in *Principles of Economics* (Econ. 201-2), *Money and Banking* (Econ. 301-2), *Principles and Methods of Statistics* (Econ. 331-2), *Public Finance* (Econ. 421), *Fiscal Policy* (Econ. 422), *Government and Business Enterprise* (Econ. 426), *International Trade and Policies* (Econ. 416), and either *Seminar in Economics* (Econ. 434) or *Seminar in Business Research* (Bus. 430); Law courses in *Property I, Trusts and Estates*, and either *Business Law I and II* or *Contracts and Sales*, and all of the courses in Taxation excepting *Adjective Tax Law*.

This work may be combined with a concentration in Business Administration, Economics, or Law.

THE DEGREE OF MASTER OF LAW AND TAXATION

OBJECTIVES

The program leading to the Master of Law and Taxation degree, the first of its kind to be offered by a college or university, is designed to fill a need for competently trained persons to serve the nation in any capacity in which a thorough comprehension of all phases of taxation is an essential requirement. In the present complex status of our tax law it requires joint consideration by a lawyer, an accountant, an economist, a political scientist, and an expert in business management in order to analyze properly all aspects of a tax matter. While the program does not presume to accomplish expertness in each of these fields, it is intended to equip the student with fundamental groundwork in all and as much of advanced study in each as relates directly to the field of taxation. This required foundation in the related fields, coupled with the twenty-five semester hours of specialized tax study, is designed to provide intensive training in tax law and ability to comprehend all of its diverse facets.

PREPARATION AND PROGRAMS OF STUDY

The Bachelor of Arts, Bachelor of Civil Law, and Master of Law and Taxation degrees may be undertaken in seven years, in which the requirements for the first two degrees are completed in a six-year combined arts and law program and the seventh year devoted to the specialized study of tax law. In addition to the

courses required to be completed for the arts and general law degrees, the following courses are included by students in the taxation program, either as electives or in pursuing their field of concentration in their undergraduate work:

Mathematics: six semester hours credit in college mathematics.

Business Administration: *Financial Management* (Bus. 323), and a minimum of twenty-four semester hours credit in courses in Accounting.

Economics: *Principles of Economics* (Econ. 201-2), *Money and Banking* (Econ. 301-2), *Principles and Methods of Statistics* (Econ. 331), *Public Finance* (Econ. 421), *Fiscal Policy* (Econ. 422), *Government and Business Enterprise* (Econ. 426), *International Trade and Policies* (Econ. 416), and either *Seminar in Economics* (Econ. 434) or *Seminar in Business Research* (Bus. 430), or the equivalent in credit hours and content of these courses if the baccalaureate degree was earned at a college other than William and Mary.

DEGREE REQUIREMENTS

The specialized study of tax law is undertaken by the student in his graduate year following the completion of the requirements for the general law degree. It comprises fifteen semester hours' study in each of two semesters of the courses described below. Such of these courses or their equivalents that the student may have completed in his general law program may be omitted, and, in that event, such of the required courses in Business Administration and Economics as were not completed by the student in his undergraduate study, or other law courses offered by the Marshall-Wythe School of Law, may be taken in their place.

Students holding an academic baccalaureate degree and a bachelor of laws degree from an institution or institutions of approved standing, inclusive of the prerequisite courses in Business Administration and Economics, who have been in residence in the Law School for at least one academic year thereafter, who have completed the prescribed graduate work in tax law within a period not exceeding two years with a quality point average of at least 2.0 (B), and who have demonstrated their ethical fitness, will receive the degree of Master of Law and Taxation.

PROGRAM FOR COMBINED COURSE

Leading to A.B. in Business Administration (Accounting) in four years, B.C.L. in six years, with preparation for both Bar and C.P.A. Examinations, and Master of Law and Taxation in seven years.

FIRST YEAR

	<i>1st Sem.</i>	<i>2nd Sem.</i>
Grammar, Composition and Literature (Eng. 101-2)	3	3
Foreign Language	4	4
Mathematics (Math. 103-4)	3	3
Science	5	5
Physical Education	1	1
	—	—
	16	16

SECOND YEAR

English Literature (Eng. 201-2) or Humanities 201-2	3	3
Foreign Language	3	3
Principles of Accounting (Bus. 201-2)	3	3
Principles of Economics (Econ. 201-2)	3	3
Introduction to Government and Politics (Govt. 201-2)	3	3
Principles of Psychology (Psych. 201)	3	—
Physical Education ¹	—	1
	—	—
	18	16

THIRD YEAR

<i>First Semester</i>	<i>Credits</i>	<i>Second Semester</i>	<i>Credits</i>
Intermediate Accounting (Bus. 301)	3	Intermediate Accounting (Bus. 302)	3
Cost Accounting (Bus. 303)	4	Human Relations in Administration (Bus. 316)	3
Fundamentals of Marketing (Bus. 311)	3	Financial Management (Bus. 323)	3
Principles and Methods of Statistics (Econ. 331)	3	Business Policy (Bus. 416)	3
Money and Banking (Econ. 301)	3	Money and Banking (Econ. 302)	3
Physical Education ¹	1	International Trade and Policies (Econ. 416)	3
	—		—
	17		18

¹Petition must be filed either to defer one hour of Physical Education until first semester of junior year or to take nineteen hours in first semester of sophomore year.

FOURTH YEAR

<i>First Semester</i>	<i>Credits</i>	<i>Second Semester</i>	<i>Credits</i>
Advanced Accounting (Bus. 401)	3	Advanced Accounting (Bus. 402)	3
Civil Procedure.....	5	Auditing (Bus. 304).....	3
Contracts.....	4	Seminar in Business	
Property I.....	4	Research (Bus. 430).....	3
		Criminal Law.....	3
		Federal Taxation.....	3
		Legal Writing.....	2
	—		—
	16		17
			A.B. Degree

FIFTH YEAR

<i>First Semester</i>	<i>Credits</i>	<i>Second Semester</i>	<i>Credits</i>
Administrative Law.....	3	Constitutional Law.....	4
Agency.....	2	Family Law.....	2
Appellate Briefing.....	1	Legal Profession.....	2
Business Associations.....	4	Negotiable Instruments.....	3
Evidence.....	3	Property II.....	3
Trusts and Estates.....	4	Torts.....	4
	—		—
	17		18

SIXTH YEAR

<i>First Semester</i>	<i>Credits</i>	<i>Second Semester</i>	<i>Credits</i>
Law Electives.....	18	Conflict of Laws.....	3
		Creditors Rights.....	4
		Government and Business	
		Enterprise (Bus. 426).....	3
		Law Electives.....	7
	—		—
	18		17
			B.C.L. Degree

SEVENTH YEAR

<i>First Semester</i>	<i>Credits</i>	<i>Second Semester</i>	<i>Credits</i>
Public Finance (Econ. 421).....	3	Fiscal Policy (Econ. 422).....	3
Estate and Gift Taxation.....	3	Advanced Income Taxation.....	4
Survey of Tax Literature.....	3	Preparation of Tax Forms.....	2
Tax Administration and		Adjective Tax Law.....	2
Procedure.....	3	State and Local Taxation.....	3
Tax Research.....	3	Tax Research.....	1
	—		—
	15		15
			Master of Law and Taxation Degree

¹Petition must be filed either to defer one hour of Physical Education until first semester of junior year or to take nineteen hours in first semester of sophomore year.

THE SCHOOL OF MARINE SCIENCE

FACULTY

WILLIAM JENNINGS HARGIS, JR., A.B., M.A., Ph.D., *Dean and
Professor of Marine Science*

JAY DONALD ANDREWS, B.S., M.S., Ph.D., *Professor of Marine
Science*

MORRIS LEROY BREHMER, B.S., M.S., Ph.D., *Professor of Marine
Science*

EDWIN BIBB JOSEPH, B.S., M.S., Ph.D., *Professor of Marine
Science*

WILLARD ABRAHAM VAN ENGEL, Ph.B., Ph.M., *Professor of
Marine Science*

JOHN LANGILLE WOOD, B.S., M.S., Ph.D., *Professor of Marine
Science*

ROBERT E. LEE BLACK, A.B., Ph.D., *Associate Professor of Marine
Science and Biology*

WILLIAM JACKSON DAVIS, B.S., Ph.D., *Associate Professor of
Marine Science*

PHILIP WYMAN HARRISON, B.S., M.S., Ph.D., *Associate Professor
of Marine Science*

RALPH ROBERT HATHAWAY, A.B., M.S., Ph.D., *Associate Pro-
fessor of Marine Science*

DENTER STEARNS HAVEN, B.S., M.S., *Associate Professor of
Marine Science*

GEORGE MOSKOVITS, A.B., M.S., Ph.D., *Associate Professor of
Marine Science*

MAYNARD M. NICHOLS, B.S., M.S., *Associate Professor of Marine
Science*

MARVIN LEROY WASS, B.S., M.S., Ph.D., *Associate Professor of
Marine Science*

ROBERT SYDNOR BAILEY, B.S., M.S., *Assistant Professor of Marine Science*

JOHN JUDSON NORCROSS, B.A., M.S., *Assistant Professor of Marine Science*

LANGLEY HARRISS WOOD, B.S., M.A., *Assistant Professor of Marine Science*

DEAN PAUL OWENS, B.A., M.S., *Instructor in Marine Science*

JUNIUS ERNEST WARINNER III, B.S., M.A., *Instructor in Marine Science*

EVELYN CLARE WELLS, B.S., M.S., *Marine Science Librarian*

ASSOCIATE MEMBERS

KENNETH F. BICK, B.S., M.S., Ph.D., *Associate Professor of Geology*

MITCHELL A. BYRD, B.S., M.S., Ph.D., *Professor of Biology and Chairman, Department of Biology*

ROBERT L. ELLISON, A.B., Ph.D., *Professor of Geology, University of Virginia*

WILLIS G. HEWATT, B.S., M.S., Ph.D., *Professor of Biology and Geology and Chairman, Department of Biology and Geology, Texas Christian University*

SEWELL H. HOPKINS, B.S., M.A., Ph.D., *Professor of Biology, Agricultural and Mechanical College of Texas*

HAROLD J. HUMM, B.S., M.S., Ph.D., *Associate Professor of Botany, Duke University*

BRUCE W. NELSON, A.B., M.S., Ph.D., *Professor of Geology, University of South Carolina*

ROBERT A. PEDIGO, B.S., M.S., Ph.D., *Associate Professor of Biology*

WILLIAM W. SCOTT, A.B., M.S., Ph.D., *Professor of Botany, Virginia Polytechnic Institute*

HISTORY

Virginia's interest in and concern with the sea, marine exploration, and marine life dates from earliest Colonial times. Captain John Smith wrote of his nautical explorations and made records of the marine life his group saw on its travels. In 1737 William Byrd's description of the mid-Atlantic seaboard colonies contained discussions of various species of marine fish and shellfish and a brief description of the Chesapeake Bay and its major tributaries.

Later in the eighteenth century Thomas Jefferson, a Visitor of William and Mary College, and Corresponding Member of the Philadelphia Academy of Natural Sciences, collected marine fossils and sent them to the Academy where they can be seen today. Jefferson, member and one-time President of the American Philosophical Society, was also interested in meteorology and geology and among other things concerned himself with such subjects as river currents, Mediterranean tides, navigation, distillation of fresh from sea water and use of fish oil to preserve pilings.

Marine Science in Virginia languished until the mid-1800's when Comodore Matthew Fontaine Maury, of Spotsylvania, conducted his important studies in physical oceanography and thus established this science on a sound footing. Maury's "Physical Geography of the Sea" published in 1855 is one of the classics of oceanography. Lieutenant John Mercer Brooke, another scion of the Old Dominion, who served at the old U. S. Naval Observatory with Maury, developed a deep-sea sounding apparatus which was used to study the nature of the bottom as well as water depths in the deep sea.

From Maury's time until 1940 little local effort was expended in marine science, when at the urging of Dr. Donald W. Davis, Professor of Biology, and Dr. John Stuart Bryan, President of the College of William and Mary, and certain other academicians and members of the seafood industry, the Commonwealth established its permanent marine laboratory, then called the Virginia Fisheries Laboratory.

Laboratories were first located on the campus at Williamsburg with a field station at Yorktown, and later the entire organization moved to rented quarters at Yorktown, where the Institute grew very slowly until 1950. In that year the first permanent build-

ing, now called Maury Hall, was erected on the promontory at Gloucester Point, across the York River from Yorktown. Since 1950 growth of research activities, facilities and personnel has been rapid, especially since 1955.

By establishing the laboratory "under the control and supervision of the College of William and Mary," the General Assembly recognized the necessity for its association with an academic institution and signified its interest in training marine scientists. Teaching and advising advanced undergraduate and graduate students has been an activity of laboratory scientists since 1940.

The first Master's candidate was awarded his M.A. degree in 1943. Due to the slowdown resulting from World War II only two other students, both females, completed work in the years 1944-1949. Since 1950 eleven have taken degrees. Increased interest in marine science resulted in 1960 in enrollment of twelve graduate students. In 1961 sixteen were enrolled and in 1962, twenty.

From 1940 the academic program of the Institute was conducted as part of the Department of Biology. In 1959 the marine training program was established by the Board of Visitors of the College of William and Mary as the Department of Marine Science. In recognition of the growing importance of marine science and the improving capability of the Department to offer advanced courses, in 1961 the Board of Visitors established the marine training program as the School of Marine Science of the College of William and Mary.

The General Assembly in 1962 changed the name, Virginia Fisheries Laboratory to Virginia Institute of Marine Science; reconstituted it as an independent agency; and provided for continued educational offering in Marine Science by permitting proper affiliation with one or more accredited institutions of higher learning.

FACILITIES

The Institute is situated at Gloucester Point, on the York River thirteen miles from the Williamsburg campus. The Institute was established (as the Virginia Fisheries Laboratory) in 1940 to pursue research and educational activities relative to tidal waters, *i.e.*, Chesapeake Bay and its tributaries and adjacent regions of the Atlantic Ocean. Though in the beginning its research efforts

were directed almost solely toward the commercially important marine species and hydrography, its interest and area of responsibility has continually grown to cover the broad spectrum of inshore oceanography as well as fisheries biology. As the Commonwealth's only marine research and training institution, the Institute is actually a general marine laboratory conducting oceanographic inquiries in the spirit and tradition of Matthew Fontaine Maury (Pathfinder of the Seas), a native Virginian and America's greatest marine scientist.

Through the offerings of the School of Marine Science, a joint venture of the College and the Institute, an unusual opportunity is afforded students of Marine Science and Fisheries Biology to take advanced undergraduate and graduate training at an active, year-round center of marine and fisheries research.

Because it is located on an important estuary with easy access to Chesapeake Bay and the nearby Atlantic, the Institute is admirably situated to conduct research and teaching in marine, estuarine, and freshwater biology and general hydrography. The branch laboratory at Wachapreague, Virginia, re-established in 1959, offers access to the embayments, salt marshes, and barrier beaches of Virginia's Eastern Shore.

The main laboratory, Matthew Fontaine Maury Hall, constructed in 1950, is equipped with running sea water, compressed air, gas, a cold room, chemistry laboratory, instrument laboratory, and an extensive and growing reference library. Brooke Hall (named after Lt. John Mercer Brooke, Virginia oceanographer and inventor of the Brooke "deep-sea sounding apparatus") completed in 1958, contains living accommodations for students and laboratory facilities. Davis Hall was built in 1961 to house the Department of Microbiology-Pathology. Its name honors Dr. Donald W. Davis, former Professor of Biology at William and Mary, who was most instrumental in bringing about establishment of this facility. A separate self-water building provides additional experimental facilities. The specially designed 55-foot diesel-powered research vessel PATHFINDER is equipped with radiotelephone and modern biological and oceanographic instruments. The converted ferry, RV LANGLEY, serves as floating laboratory for work in Chesapeake Bay. Several auxiliary and outboard motorboats, and rowboats are available.

PROGRAM

The degree offered by the College of William and Mary is the Master of Arts in Marine Science. Majors in Biological Oceanography (Marine Biology), General Oceanography and Fisheries Biology are available. Others are planned. Though the program is primarily for graduate students, courses are open to advanced undergraduates. At the present time the curriculum leading to the Master of Arts in Marine Science comprises a number of formal courses, a methods course, two problems courses, one seminar course, and a thesis course.

The program of the School of Marine Science is primarily intended for the advanced student who wishes to specialize in Marine Science. Majors are available in Biological Oceanography, General Oceanography, and Fisheries Biology. The graduate program, leading to the Master's degree in Marine Science, includes instruction in Chemical, Geological and Physical Oceanography, Marine Ecology, Biometry, Population Dynamics, Seminar in Marine Science, Taxonomic Methods, Phylogeny, and Research.

In summer qualified undergraduate students may take advanced training in Invertebrate Ecology, Marine Science, Physiology, and other subjects as scheduled. Special summer research courses in Marine Science for qualified science teachers and undergraduate biology majors are offered as funds are available. Financial assistance is generally available to qualified graduate and undergraduate students and to participating teachers.

As in most marine institutions, activities are accelerated in the summer. From four to six scientists are added to the research and teaching staff. In addition to regular academic courses offered, the Institute has recently been associated with the National Science Foundation in two valuable summer training programs. Under one, college teachers are brought to Gloucester Point. In the other, ten students are brought to the Laboratory in the Undergraduate Research Participation Program. In both groups the enrollees participate in research projects. An additional ten to fifteen students are supported by the Summer Aide Program which is designed to acquaint them with marine research activities and to encourage their interests.

Because the *entire* organization is marine-oriented and all of the faculty is heavily engaged in research, graduate and undergraduate students have a better than usual opportunity to become

intimately familiar with the field. This advantage is increased by the fact that the student's entire training program is carried out on the seacoast. Time is not lost in traveling from an inland campus to the sea; and the sea, itself, is a constant classroom companion.

PREPARATORY STUDIES

It is recommended that students who are seriously interested in Marine Science as a profession consult with the Dean of the School as early in their college careers as possible regarding an academic program to be followed. The student interested in Marine Biology (Biological Oceanography) or Fisheries Biology should plan to take such subjects as Genetics, Comparative Anatomy of Vertebrates, Comparative Anatomy of Invertebrates, Histology, Embryology, Systematic Botany, Microbiology; several courses in Chemistry, *i.e.*, General Qualitative and Quantitative, Organic and, if possible, Biochemistry; and General Physics. College Mathematics through Trigonometry is very important. The Calculus is recommended.

The prospective general oceanographer should have an undergraduate major in Physics, Meteorology, Biology, Chemistry or Geology. Students of the last three subjects should have taken Fluid Mechanics or Gas Dynamics or similar subjects and have Mathematics through the Calculus.

In all disciplines an overall grade average of at least C+, with B (2.0 in a 3 point system) in the major field is desirable.

ADMISSION REQUIREMENTS

Though the courses offered by the School are primarily for graduate students, advanced undergraduates (juniors and seniors) may participate. For instance, Biology, Chemistry and Physics majors may enroll in suitable 400 level courses. An undergraduate major in Chemistry, Geology, Physics, or Psychology may work on a marine problem in his field of specialization. Consent of the Chairman of the student's major department is required to take problems courses in Marine Science. Summer courses offered by the School are available to all qualified students from William and Mary schools and colleges as well as other institutions of higher learning.

Graduate students will be admitted either to regular graduate or to unclassified graduate status. All applicants for admission to regular graduate status shall be cleared through the central admissions office in cooperation with the office of the Dean of Admissions of the College at Williamsburg and be subject to the approval of the Committee on Graduate Studies of the School of Marine Science.

An applicant for admission to graduate study must have completed the requirements for a Bachelor's degree in an institution of approved standing. Majors in the natural sciences are preferred. He must have achieved a minimum quality grade-point average of 1.5 (based on a 3 point system) or its equivalent. Applicants with higher grade-point averages will be given preference.

Applicants for admission to regular graduate status are required to take Graduate Record Examination. This must include the Aptitude as well as the Advanced portions of the test.

Inquiries should be addressed to the Dean of the School of Marine Science, Gloucester Point, Virginia.

DEGREE REQUIREMENTS

The graduate program of study in Marine Science is designed for students who wish to continue systematic professional study beyond the Bachelor's degree.

The steps to be accomplished and requirements for the Master of Arts degree in Marine Science are as follows:

1. The Dean of the School, or a major professor chosen by mutual agreement of the student, the professor and the Dean, approves the student's program.
2. A minimum residence period of one calendar year is required.
3. At least twenty-four semester credits of advanced work, of which at least one-half must have been earned in courses numbered 500 or above, with a grade average of B or better, are required for the M.A. degree. Grades below B in the major field may not be applied toward the credit-hour requirement. No credit will be given for any grade below C. Receipt of grades below C generally presages dismissal from the School.

4. As soon after admission to candidacy as possible the student must select a major professor and a research project.

Students become candidates for the Master's degree upon the recommendation of the Dean and the approval of the Graduate Studies Committee after completion of a minimum of one semester of graduate work.

5. If the student has not successfully completed the second year of at least one pertinent foreign language (German, French or Russian are usually recommended) during his undergraduate training he will be required to do so or to pass a reading test during his course of study in the School.

6. The student must present a thesis approved by his major professor, the Dean and his Committee.

7. A comprehensive examination, written or oral, covering the entire field of study and an oral defense of the thesis are required.

8. All requirements for the degree must be completed within six calendar years after commencing graduate study.

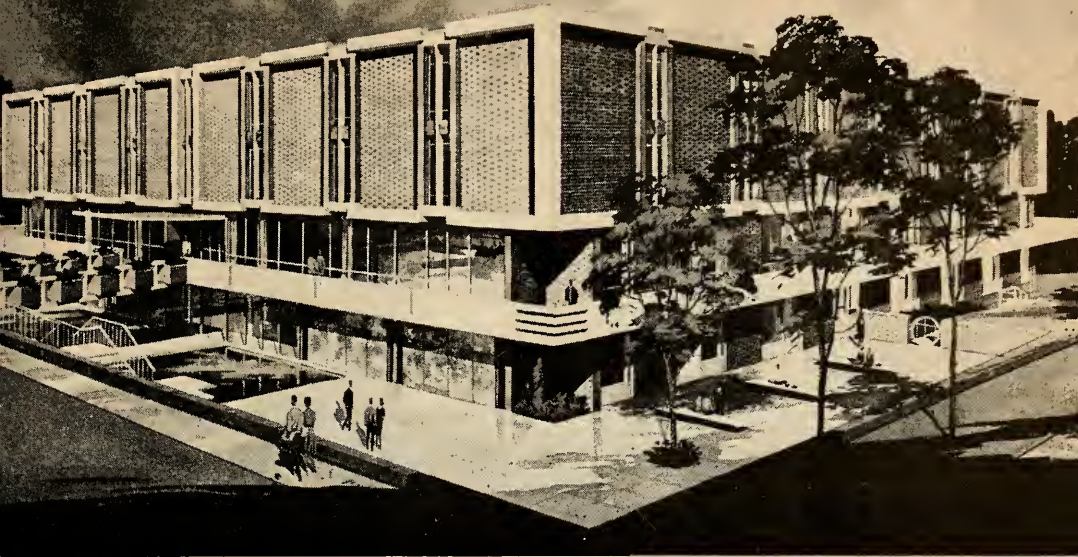
CURRICULUM

Occasionally, approved marine science courses are offered at Williamsburg, but most are conducted at the marine laboratory at Gloucester Point. Accordingly, students commuting between campuses must schedule classes so as to allow adequate time between them. Usually thirty minutes are required to make the passage.

DESCRIPTION OF COURSES

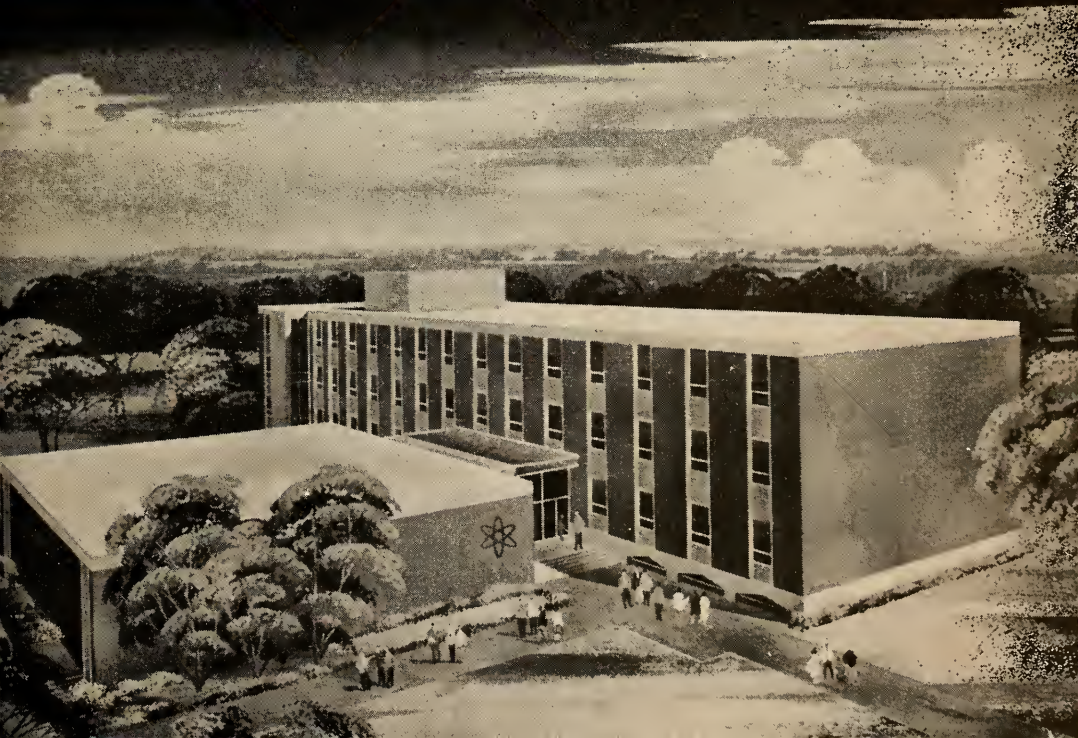
*401. *Introductory Physical Oceanography*. First semester; three hours lecture, four hours laboratory and cruise; five credits. Prerequisites: Chemistry 101, 102, Mathematics 101, 102, Physics 101, 102. MR. NICHOLS and STAFF.

Physical properties of sea water, interaction with the atmosphere, movement of water masses, and dynamics of currents, waves and tides. Special emphasis in the laboratory will be devoted to techniques and instruments employed in biological, chemical, geological and physical oceanography.



Earl Gregg Swem Library (expected completion, 1965)

William Small Physical Laboratory (recently completed)





The Queen's Guard, Marshall-Wythe Hall

Commencement, 1963



†403. *Problems in Marine Science*. All semesters; hours to be arranged; credit according to performance, maximum four credits. STAFFS OF THE SCHOOL OF MARINE SCIENCE AND CO-OPERATING NATURAL SCIENCE DEPARTMENTS.

Supervised projects selected to suit the needs of the advanced undergraduate student. Projects to be chosen in consultation with the head of the student's major department, the supervising professor and the Dean of the School of Marine Science. Acceptable topic outlines and terminal project reports are required.

†406. *Marine Science*. Summer session and extension; lectures, laboratory, and field trips twenty hours per week for eight weeks; five credits. STAFF.

A general introduction to marine science including biological, chemical, geological and physical oceanography.

*407. *Biometry I*. Second semester; lecture and laboratory six hours; four credits. MR. NORCROSS.

Application of biometrical techniques to analysis of biological data. Enumeration statistics, measures of central tendency and dispersion. Analysis of variance and regression analysis.

†410. *Marine and Freshwater Invertebrates*. Summer Session; lectures, laboratory and field trips twenty hours per week for eight weeks; five credits. STAFF.

Classification and identification, adaptation, ecology, life histories. Local marine, estuarine and freshwater forms emphasized.

†412. *Marine Botany*. Summer session; lectures, laboratory and field trips twenty hours per week for eight weeks; five credits. STAFF.

A general introduction to the ecology and systematics of algae and spermatophytes encountered in the marine environment.

*415. *Marine Botany—The Fungi*. Summer Session; lectures, laboratory and field trips, twenty hours per week for eight weeks; five credits. STAFF.

An introduction to the ecology and systematics of the fungi and fungus-like plants encountered in the marine environment.

†501. *Marine Science Seminar*. All semesters; hours to be arranged; one credit each semester, maximum three credits. STAFF.

The organization and presentation of scientific data. Oral discussion and written outlines and critiques of selected seminar topics are required of all students in the department.

502. *Biological Oceanography*. First semester; lectures, recitation and laboratory eight hours; five credits. STAFF.

Studies of the interactions of biological, chemical and physical variables of the marine environment at the individual, population and community levels; occurrence and distribution of marine organisms. Development of the marine ecosystem as a generalized open system.

†503. *Advanced Problems in Marine Science*. All semesters; hours to be arranged; credit according to performance, maximum four credits. STAFF.

Supervised research projects selected to suit the needs of the graduate student. Projects to be chosen in consultation with the student's major professor and the Dean of the School. Acceptable research outlines and project reports are required. Training in specific areas such as marine parasitology, epidemiology and pathology of marine organisms, marine productivity, physiology of algae, experimental design, and other subjects which staff members are qualified to teach is also offered.

504. *Biology of Selected Marine Organisms*. Second semester, alternate years; lectures and laboratory eight hours; five credits. MR. ANDREWS, MR. VAN ENGEL and MR. HAVEN.

Detailed, advanced study of special groups of marine organisms, such as Mollusca or Crustacea, which are within the special interests and training of particular staff members. Emphasis on organisms of economic importance such as *Balanus*, *Callinectes*, *Crassostrea*.

505. *Systematics and Phylogeny*. First semester, alternate years; three hours of lecture and recitation; three credits. MR. HARGIS.

General consideration of the principles and theories of systematics and phylogeny. Techniques of taxonomy, studies of the historical development of species and higher biological units.

*506. *Biology of Plankton*. Second semester, alternate years; lectures, recitation and laboratory eight hours; five credits. STAFF.

The structure and dynamics of estuarine plankton communities, with emphasis on the local biota; classification, morphology and ecology of major constituents; planktological methods.

*507. *Marine Microbiology*. First semester, alternate years; lectures and laboratories eight hours; five credits. Prerequisites: Biology 301, 302, Chemistry 301, 302. MR. JOHN WOOD and MR. MOSKOVITS.

Morphology, physiology, ecology, taxonomy, methods of isolation, cultivation and identification of aquatic microorganisms with emphasis on those from the marine environment.

508. *Ichthyology*. Second semester, alternate years; lectures, laboratory and field trips nine hours; five credits. Prerequisites: 13 credits in biology including Comparative Anatomy of Vertebrates. MR. JOSEPH.

A detailed treatment of the biology of fishes including phylogeny and classification, functional morphology, speciation, respiration and reproduction.

509. *Cybernetics*. First semester, alternate years; lectures three hours; three credits. Prerequisites: Mathematics 102 or equivalent, and consent of instructor. STAFF.

Elements of cybernetics, with special emphasis on applications to biological systems: Nature of systems, change, the determinate machine, coupling and feedback, stability, black box problems, constraint, the Markovian machine, automatic control. Topics from information, game and decision theories.

*510. *Pollution Biology*. Second semester, alternate years; lecture and laboratory six hours; four credits. MR. BREHMER.

Study of the various types of pollutants, domestic and industrial wastes, soils, insecticides, herbicides and radioactive materials and their effects on the marine environment.

511. *Geological Oceanography*. First semester, alternate years; three hours lecture and cruise; three credits. Prerequisites: General or Physical Geology. MR. NICHOLS and MR. HARRISON.

Topography and structure of the sea floor, origin of the ocean basins, coral reefs, continental shelves, submarine canyons, depositional environments and sedimentary processes.

*512. *Bioenergetics*. Second semester, alternate years; lecture two hours; two credits. Prerequisites: Chemistry 302 or Biochemistry. STAFF.

The biological processes of energy transformation: Elementary thermodynamics, photosynthesis, chemosynthesis, metabolism, respiration and trophodynamics.

513. *Biogeography*. First semester, alternate years; lecture three hours; three credits. MR. WASS.

A survey of biogeographic regions, their geological origin and the paleo and neo distribution of representative groups of organisms. Emphasis on marine environments.

*514. *Littoral Processes*. Second semester, alternate years; lecture and field work five hours; three credits. Prerequisite: Marine Science 401 and consent of instructor. MR. HARRISON.

Physical and chemical processes in the nearshore environments including littoral waves, tides, currents, transportation of sediments and the formation of sedimentary features.

*516. *Advanced Physical Oceanography*. Second semester, alternate years; lecture three hours; three credits. Prerequisites: Marine Science 401, Mathematics 201, 202, 203, 302, Physics 207, 208, 302. STAFF.

Dynamics of ocean currents, turbulence, wind currents, waves, water masses and circulation of the ocean.

517. *Behavior of Marine Organisms*. First semester, alternate years; lecture and laboratory six hours; four credits. Prerequisites: Biology 101, 102, Marine Science 401, 402. MR. LANGLEY WOOD.

A survey of physiological and ecological correlates of behavior, with emphasis on marine organisms and their environ-

ment; a critical review of behavioral theory; electrophysiological demonstrations of the interaction of sensory processes and environmental stimuli.

*518. *Marine Fishery Science*. Second semester; lecture laboratory and field trips eight hours; five credits. STAFF.

Principles and techniques; including the theory of fishing, age and growth, methods of defining stocks, catch statistics, description of world fisheries, and life histories of selected species.

†560. *Thesis*. All semesters; hours to be arranged.

Original research in Marine Science or Fisheries Biology. Project to be chosen in consultation with the student's major professor and the Dean of the School.

Mathematics

PROFESSORS REYNOLDS (*Head of the Department*) and LEE. ASSOCIATE PROFESSORS CATO and WEILER. ASSISTANT PROFESSORS EASLER, KUTNER, LAWRENCE, SHOCKLEY and TURNER. LECTURER LEONARD.

REQUIREMENTS FOR CONCENTRATION

Concentration in Mathematics consists of 30 or more semester credits at the 200 level and above including Mathematics 201, 202, 203, 204, 302 and 307. At least 15 credits must be at the 300 and 400 level. Mathematics 103-104, 475¹ and *Engineering Graphics* 201-202 may not be applied towards concentration in Mathematics.

DESCRIPTION OF COURSES

103. *Algebra-Trigonometry*. Both semesters; lectures three hours; three credits. STAFF.

An integrated study of the real number system, sets, functions, graphs, equations and inequalities, systems of equations, matrices and determinants. This is followed by a study of the trigonometric functions and their properties. Recommended for the non-science major, prospective teachers and those who have a deficiency in their training in the fundamentals.

104. *Basic Concepts of Mathematics*. Both semesters; lectures three hours; three credits. Prerequisite: Math. 103 or its equivalent. STAFF.

A study of the modern concepts of the fundamentals of mathematics including such topics as logic, development of the number systems, some elementary number theory, modern algebra, Boolean algebra, Finite mathematical systems, probability, and geometry. Recommended for the non-science major and prospective teacher.

¹Math. 475 is a course designed for the in-service teacher. See Summer School or Evening College Catalogue for description.

201, 202, 203, 204. *Calculus with Analytic Geometry*. Both semesters. Continuous course; lectures three hours; three credits each semester. Prerequisites: Math. 103 or its equivalent or consent of the head of the department. (Entering freshmen with good training in trigonometry are urged to begin with Math. 201.) STAFF.

201: Inequalities, absolute values and analytics through conics. Sets, ordered pairs and functions leading to limits and derivatives of algebraic and transcendental functions including applications to maxima, minima, plane motion and Law of the Mean Value. Differentials and their applications.

202: The definite integral and the Fundamental Theorem of Integral Calculus and their applications to areas, volumes, work, first moments and centroids including improper integrals and solids of revolution. Techniques of integration, parametric equations, polar coordinates and vectors.

203: Sequences and series including Taylor's and Maclaurin's series and convergence. Solid analytic geometry and partial differentiation with applications. L'Hospital's Rule.

204: Multiple, line and surface integrals, Beta and Gamma functions and Fourier series. Implicit functions and Leibnitz's rule for differentiation under the integral sign.

205. *Analytics*. Usually offered in summer; lectures three hours; three credits. Prerequisites: Math. 103 or the consent of the head of the department. STAFF.

Plane graphs in rectangular and polar coordinates presented from the vector approach. The conics, planes and surfaces, lines and curves, their tangents and normals, ruled surfaces and surfaces of revolution, quadrics and volumes.

206. *Modern Mathematics*. Usually offered in summer; lectures three hours; three credits. Prerequisites: Math. 103 or its equivalent or the consent of the head of the department. STAFF.

A study of topics of mathematics most recently developed and applied in fields including the social and biological sciences.

Elementary logic, sets, probability theory, matrices, linear optima, and the theory of games. The course serves the student interested in cultural aspects whether or not a mathematics major.

302. *Differential Equations*. Both semesters; lectures three hours; three credits. Prerequisite: Math. 203 or the consent of the head of the department. STAFF.

Ordinary differential equations. Laplace Transform. Series solutions of Legendre and Bessel equations. Solution of partial differential equations by separation of variables. Applications in geometry, physics, and engineering.

304. *Probability and Statistics*. Second semester; lectures three hours; three credits. Prerequisite: Math. 203. (Math. 204 is advised.) MR. KUTNER.

Permutations and combinations. The random variable, expected value, variance and covariance. Discrete and continuous probability distributions. Generating functions. General limit theorems. Practical illustrations from various domains. Tests of hypotheses. Non-parametric methods.

306. *Numerical Analysis and Actuarial Mathematics*. First semester; lectures three hours; three credits. Prerequisite: Math. 302. (Math. 204 and 307 are advised.) MR. KUTNER.

Fundamental processes of numerical analysis. Finite differences. Interpolation, quadrature, and approximations. Introduction to programming. The content is useful in physics, engineering, and actuarial science, as well as in Mathematics.

307. *Algebra*. Both semesters; lectures three hours; three credits. Prerequisite: Math. 202 or the consent of the Head of the Department. STAFF.

The number systems. The nature of proof. Sets. Divisibility and congruences. Introduction to groups, rings, and fields. Matrices and determinants. Applications to systems of equations and theory of equations. Recommended for prospective teachers.

308. *Geometry*. Second semester; lectures three hours; three credits. Prerequisite: Math. 302, 307 or the consent of the Head of the Department. MR. WEILER.

Axioms and deductive reasoning. Some advanced euclidean geometry including cross ratio and inversion. Synthetic and coordinate projective geometry. Duality. Perspectivity. Conics. Recommended for prospective teachers.

403. *Intermediate Analysis*. First semester; lectures three hours; three credits. Prerequisite: Math. 203, 207. MR. LAWRENCE.

Real numbers; point sets; the Heine-Borel and Bolzano-Weierstrass theorems. Limits; continuity; and uniform continuity. Sequences and series of functions; uniform convergence. The Riemann integral. Functions of several variables.

405-406. *Complex Variables*. Continuous course; lectures three hours; three credits each semester. Prerequisites: Math. 203, 302. STAFF.

The complex plane. Functions of a complex variable. Continuity. Differentiability and the Cauchy-Riemann equations. Contour integrals. The Cauchy integral theorem and the Cauchy integral formula. Infinite sequences and series. Taylor and Laurent expansions. The second semester continues with calculus of residues, evaluation of real definite integrals, analytic functions, Liouville's Theorem, the Maximum Modulus Theorem, infinite products, the Weierstrass Factorization Theorem, conformal mapping and other selected topics.

407, 408. *Introduction to Matrices and Linear Algebra*. Continuous course; lecture three hours; three credits each semester. Prerequisites: Math. 302, 307 and consent of the Head of the Department. MR. CATO.

The first semester deals with algebra of matrices, determinants, systems of linear equations, elementary transformations, finite dimensional vector spaces, matrix polynomials, characteristic vectors. The second semester continues with functions of matrices, Sylvester-Lagrange interpolation polynomial, systems of linear differential equations, normal forms, bilinear and quadratic forms, Hermitian matrices, orthogonal and unitary transformations, inner products, norms and applications.

410. *Special Topics*. Either semester; one, two or three

hours lecture and credit, depending upon topics chosen. Prerequisite: consent of the Head of the Department. STAFF.

Topics selected from Theory of Equation, Projective Geometry, Linear Algebra, Intermediate Analysis, Applied Mathematics, etc.

412. *Introduction to Number Theory*. Either semester; lecture three hours; three credits. Prerequisites: Math. 307 or consent of the Head of the Department. MR. REYNOLDS.

An elementary course in the theory of integers, divisibility and properties of prime numbers; a study of Diophantine equations, congruences, number theoretical functions, decimal expansion of rational numbers and quadratic residues included. Recommended for prospective secondary teachers of mathematics.

430. *Numerical Methods and Computer Programming*. Lecture three hours; two credits. Second semester. Prerequisite: Math. 203 or equivalent. MR. ZUNG.

Recommended for Mathematics and Physical Sciences majors. This course is designed to acquaint students with the theory and practice of computation with special reference to stored-programming techniques for high-speed electronic computers IBM 1620 and IBM 7090. Topics include: Symbolic and Automatic Programming, Problem planning, organization and functioning of computer installation, Survey of current computer applications in the field of scientific and industrial research. (This course may not be applied toward any concentration.)

Engineering Graphics 201, 202. *Engineering Drawing and Descriptive Geometry*. Continuous course; laboratory six hours; three credits each semester. MR. SMITH.

Fundamentals of Engineering Drawing and Descriptive Geometry. Orthographic projection, auxiliary views. Isometric, oblique projection and drawing; perspective; machine parts such as screws, gears, valves, cams. Lettering. Graphic and analytic solutions of engineering and geometric problems. Intersection and development of surfaces.

MASTER OF ARTS DEGREE IN MATHEMATICS

ADMISSIONS AND REQUIREMENTS

Requirements for admission are listed on pages 91-92 of this catalogue. In addition to the general requirements for the degree of Master of Arts stated on pages 91-92 of this catalogue, candidates must meet the following requirements:

1. After consultation with the Mathematics Department, the student may be required to take undergraduate courses in which his preparation is judged inadequate.

2. The student must demonstrate a reading knowledge of French, German or Russian, in the field of mathematics, at least one semester prior to qualifying for the degree.

3. In addition to Math. 560 (Thesis), the candidate must successfully complete 24 semester credits in courses numbered above 400 including at least 12 semester credits in courses limited to graduate students (500 courses) and with a grade of B or better in each 400 level course taken for graduate credit.

4. Each graduate student shall have a faculty supervisor who will be primarily responsible for the student's choice of a thesis subject and for advising him regarding research and writing problems encountered in preparing for his thesis. All thesis subjects must be approved by the head of the department.

5. Each candidate must pass an oral comprehensive examination to be taken at least two weeks before regular semester examinations. This comprehensive shall be given only after the thesis has been submitted to and approved by his examining committee and only after the 24 semester credits have been completed or in the semester in which these credits will be completed.

GRADUATE COURSES

For the M.A. degree, it will be required of all candidates to take the sequence Math. 501-502 and one other of either 503-504 or 505-506.

501-502. *Modern Abstract Algebra*. Continuous course. Lectures three hours; three credits each semester. Prerequisite: Math. 307 or its equivalent. STAFF.

Semi-groups, groups, homomorphisms, Sylow theorems, integral domains, rings and ideals. The second semester covers fields, Galois theory, applications to the classical construction problems, algebras.

503-504. *Analysis*. Continuous course. Lectures three hours; three credits each semester. Prerequisite: Math. 403. STAFF.

Functions of a real variable, properties of point sets, metric spaces, functions of bounded variation, Stieltjes integrals, measure theory, Lebesgue integration. The second semester covers normed spaces, Hilbert spaces, spaces of bounded and of continuous functions, Stone-Weierstrass approximation theorem, analytic functions.

505-506. *Topology*. Continuous course. Lectures three hours; three credits each semester. STAFF.

An introduction to the theory of point sets and topological spaces, separation axioms, bases and axioms of countability, Lindelof's theorem, topological convergence, connectivity and local connectivity, components, compactness and local compactness. The second semester covers compactification, product spaces, continuous transformations, homeomorphisms, Urysohn's lemma and Tietze's theorem, metric spaces and metrization theorems, function spaces, approximation, and the Stone-Weierstrass theorem.

509-510. *Applied Mathematics*. Continuous course. Lectures three hours; three credits each semester. Prerequisite: Math. 407-408. STAFF.

An introduction to Hilbert space, generalized functions, theory of distributions and Fourier transforms, Existence theorems, boundary value problems and fundamental solutions of partial differential equations with special emphasis on elliptic and hyperbolic equations. Green's functions, Cauchy problems and the Goursat problem.

551. *Readings in Algebra and Number Theory*. One to three hours either semester depending upon material covered. STAFF.

552. *Readings in Analysis I.* One to three hours either semester, depending upon material covered. STAFF.

553. *Readings in Analysis II.* One to three hours either semester, depending upon material covered. STAFF.

554. *Readings in Topology.* One to three hours either semester, depending upon material covered. STAFF.

555. *Readings in Applied Mathematics.* One to three hours either semester, depending upon material covered. STAFF.

560. *Thesis.* Hours to be arranged. STAFF.

Military Science¹ Army

PROFESSOR LT. COL. HOGAN (*Head of the Department*).
ASSISTANT PROFESSORS MAJOR CLARK, CAPTAIN SANDERS
and CAPTAIN WOFFORD.

RESERVE OFFICERS' TRAINING CORPS

A unit of the Reserve Officers' Training Corps was established at the College of William and Mary on July 1, 1947, with an assigned mission of training students for positions of leadership in the Armed Forces in time of national emergency.

Beginning with the 1954-55 session the College broadened the scope of training from the original course designed specifically to train students in Artillery subjects to one of General Military Science. The GMS course gives the student a college level program of general military subjects, trains him in basic infantry weapons and procedure, teaches him the fundamentals of leadership, and provides him an opportunity to perfect his leadership technique by practical application.

Any male student who is a citizen of the United States, physically qualified, and not already holding a commission in any of the Armed Forces may, when he matriculates in the College, enroll in the first year basic course. Those meeting the above qualifications but who have had prior military training, whether in the Armed Forces or in another college may, commensurate with the degree of such training, enroll in Military Science I through IV. Freshmen and transfer students desiring to take advantage of previous military training should consult the Professor of Military Science when they matriculate in the College. Time of enrollment must be such as to place the military and academic instruction in phase with each other. Thus, freshmen only pursue MS I, sophomores, MS II, juniors, MS III, and seniors, MS IV.

¹Students who enroll in either the basic or advanced courses will be required to complete the course in which they are enrolled in order to receive college credit for any part of the two-year course. However, in cases where a student is forced to drop from the ROTC because of physical disability or other bona fide reasons beyond his control, the Professor of Military Science may, at his discretion, recommend to the college authorities that the student be given credit for a part of or all of his completed work.

Having completed satisfactorily the two year basic course or its equivalent, and having demonstrated that he possesses such traits of character and leadership ability as will justify his further training as a candidate for a commission, a student who also has an adequate academic standing becomes an eligible candidate for admission to the advanced course (MS III and MS IV). Those who complete this course will, upon graduation from the College, be given a certificate of capacity and may be commissioned as Second Lieutenant, United States Army Reserve. Outstanding ROTC cadets are usually offered a commission in the Regular Army under the provisions of the Distinguished Military Student Program.

All students who enroll in the ROTC are furnished without cost to them officer-type uniforms which are worn to designated military classes. In addition, students who are enrolled in the advanced course receive a subsistence allowance of approximately \$27.00 per month. Advanced course students are required to attend a six-week summer camp, generally between their third and fourth years at college, and they are paid during that period at the rate of pay of a private in the Army. They also receive travel pay to and from camp, and while there are rationed and quartered at government expense.

The Professor of Military Science may grant deferments to any student enrolled in ROTC. This deferment will defer the student from induction for training and service under the Universal Military Training and Service Act until he has completed his college education. A student who is selected and signs a deferment agreement agrees to enroll in and complete the advanced course, if selected therefor; to accept a commission upon graduation, if tendered; to serve on active duty as an officer for a period of not less than two years; and to remain a member of a regular reserve component of the Army until the sixth anniversary of the date of his commission. In some instances he may be authorized to serve only six months on active duty and to remain a member of a reserve component of the Army until the eighth anniversary of the date of his commission.

The signing of the deferment agreement is optional in the freshman and sophomore years, but becomes mandatory for a student entering the advanced course. Current regulations also provide for the deferment of the active duty training of newly

commissioned students in cases where they have applied and been accepted for graduate work in any recognized field.

The branch of service in which commissions will be offered to the individual student will be dependent upon the needs of the Army and recommendations of a selection board composed of civilian and military faculty members. In cases where a student is commissioned and subsequently enters graduate school to specialize in such fields as medicine, ministry, and engineering he may, upon the completion of such training, apply for transfer to a branch of service related to his particular field of endeavor.

DESCRIPTION OF COURSES

101¹. *First Semester, First Year Basic.* Lecture one hour, laboratory (drill) two hours; one credit.

A brief history and organization of the ROTC and reasons for its continued growth. A short introduction to evolution of firearms with emphasis on assembly and disassembly, mechanical functioning, care and maintenance and methods of employment of the U. S. rifle caliber .30 M-1. School of the Soldier and Exercise of Command.

102. *Second Semester, First Year Basic.* Lecture one hour, laboratory (drill) two hours; one credit.

A brief presentation of national defense policy and world-wide commitments that require support of the Armed Forces. A brief comparison of the military forces of the world. School of the Soldier and Exercise of Command.

MS 201. *First Semester, Second Year Basic.* Lectures two hours, laboratory (drill) two hours; two credits.

American Military History. Military history as it has affected the organization, tactical, social and similar patterns of our present-day army. School of the Soldier and Exercise of Command.

¹In addition to MS 101 and MS 102 each student in the first year basic ROTC program is required to take 30 hours work (two credits) in one of the following general academic areas: (a) effective communication, (b) science comprehension and (c) general psychology. This subject may be one that is required in the student's normal academic curriculum during his freshman year.

MS 202. *Second Semester, Second Year Basic.* Lectures two hours, laboratory (drill) two hours; two credits.

Map and aerial photograph reading to include application of basic principles emphasizing terrain appreciation and evaluation; marginal information, military and topographic map symbols and methods of orientation and resection. School of the Soldier and Exercise of Command.

MS 301. *First Semester, First Year Advanced.*¹ Lecture one hour, laboratory (drill) two hours; one credit.

Leadership. Responsibilities and basic qualities of a leader, human behavior and adjustment to Army life; objective leadership; leadership principles; leadership techniques; functions of the leader and special problems of military leadership. School of the Soldier and Exercise of Command.

MS 302. *Second Semester, First Year Advanced Section.* Lectures four hours, laboratory (drill) two hours; three credits.

Military Teaching Principles. Educational psychology as pertaining to the five stages of instructional technique and importance to each; techniques used in planning and presenting instruction; speech for instructor; the construction and use of training aids.

Branches of the Army. Organization, functions and mission of the arms and services; familiarization of the organization, functions and mission of the various arms and services in the overall mission of the Army.

Small Unit Tactics and Communication. Principles of offensive and defensive combat and their application to the unit of the infantry battalion. Familiarization with the means and principles of communications. School of the Soldier and Exercise of Command.

¹Credit for MS 101, 102, 201 and 202 (Basic Course) is prerequisite—along with other requirements. In addition to MS 301, 302, 401 and 402 advanced ROTC students are required to take six semester credits which are not part of the normal requirement of their major field. These credits are to be selected in coordination with the Professor of Military Science and will be within the following general areas; science comprehension, general psychology, effective communication and political institutions.

MS 401. *First Semester, Second Year Advanced.* Lectures four hours, laboratory (drill) two hours; three credits.

Operations. Staff organization and function using division staff as a model; relationship lectures, command and staff relationship with subordinate units and staff. Command channels and liaison. *Logistics.* Duties of company supply personnel; types of property; responsibility and accountability; outline of organization and operation of the infantry battalion and division for supply and evaluation. Troop movement and motor transportation. *Administration.* The role of the officer in unit administration to include familiarization with Department of the Army publications. *Military Law.* Brief history of military laws including statutory revision. School of the Soldier and Exercise of Command.

MS 402. *Second Semester, Second Year Advanced.* Lecture one hour, laboratory (drill) two hours; one credit.

The role of the United States in world affairs; an orientation on geographical and economic factors, their influence on the division of people into nations and the causes of war. Service orientation and orientation on service life for future affairs. School of the Soldier and Exercise of Command.

Flight Training: An FAA approved flight training program of approximately 35 hours ground training and 36 hours flight instruction conducted by civilian flight contract is offered to selected senior ROTC Cadets. Successful completion of the course will result in qualification for a private pilot's license.

Modern Languages¹

PROFESSORS OUSTINOFF (*Head of the Department*), REBOUSSIN²,
RINGGOLD, STONE. ASSOCIATE PROFESSORS CARTER, HOFF-
MAN, KALLOS, KORPI, MCCARY, MARTEL, MOORE. AS-
SISTANT PROFESSORS BERRY, COKE, KURTZ, MANIEY³,
INSTRUCTORS BIETER, GAAR, GONZALEZ-ABOIN,
HAASE, KREBS, MANN, NEUGAARD, OTIS,
RINGGOLD, TYLER.

Courses in the 100⁴ and 200 groups are designed to give a well-rounded linguistic experience, including the spoken as well as the written language, and to develop an awareness and appreciation of other cultures. Supervised language laboratory is an integral part of courses 101 and 102; four class meetings and one hour in the language laboratory.

Courses in the 300 and 400 groups are designed to give further experience in the principal facets of language study, a reasonable knowledge of the literature, some experience in literary criticism, to the end that the student may experience in some degree the humanizing process which derives from the study and understanding of foreign languages and cultures. Courses in the 300 and 400 groups are conducted in the foreign language.

Students concentrating within the area of Modern Languages are required to take at least 6 credits in Ancient Language.

FRENCH

REQUIREMENTS FOR CONCENTRATION

The following courses are required for concentration in French, and should be taken in this order: French 301, 302, 304, 305, 306, 401, 403, 404, 406.

¹The distribution requirements for foreign languages are indicated on pages 85-86. All language requirements for a degree should be begun in the freshman year.

²On leave of absence, 1963-1964.

³On leave of absence, second semester, 1963-64.

⁴No credit will be counted toward a degree for the first semester of an elementary foreign language unless followed by the successful completion of the second semester of that language.

Students planning to concentrate in French are advised to choose Latin to satisfy the requirement of 6 semester credits in an Ancient Language.

DESCRIPTION OF COURSES

101, 102. *Elementary French*. Continuous course, including training in pronunciation, aural-oral comprehension with the use of audio-visual techniques. Lectures four hours; language laboratory one hour; four credits each semester. Students who have acquired 2 high school credits in French may not take French 101, 102 for credit. STAFF.

201. *Graded Reading in French Prose*. Both semesters; lectures three hours; three credits. Prerequisite: two high school units or the equivalent. Students who have acquired three high school units in French may not take French 201 for credit. STAFF.

Reading course that includes a grammar review.

202. *Readings in Modern Literature*. Both semesters; lectures three hours; three credits. Prerequisite: three high school units or French 201 or the equivalent. STAFF.

Selected readings from the literature of the nineteenth and twentieth centuries.

205. *Intermediate Grammar and Composition*. Both semesters; lectures three hours; three credits. Prerequisite: French 202 or the equivalent. MR. RINGGOLD and MR. OTIS.

Review of main principles of syntax. Composition.

206. *Intermediate Conversation*. Both semesters; lectures three hours; three credits. Prerequisite: French 205 or the equivalent. MR. COKE.

Phenetics; intensive oral-aural training.

207. *Advanced Reading in French Literature*. First semester; lectures three hours; three credits. Prerequisite: four high school units or 202 or the equivalent. STAFF.

Selected readings from the literature of the seventeenth, eighteenth, nineteenth and twentieth centuries. A reading course designed as an introductory step to the 300 courses in literature.

208. *The French Heritage*. Second semester; lectures three hours; three credits. Prerequisite: four high school units or 202 or the equivalent. STAFF.

Reading course embodying the most important elements of French civilization, designed as an introductory step to the 300 courses in literature.

301. *Classical Literature*. First semester; lectures three hours; three credits. Prerequisite: French 207 or 208 or the equivalent. MR. McCARY.

Literary trends of the seventeenth century; study of representative works. The course also includes a short review of the main principles of French versification.

302. *Literature of the Eighteenth Century*. Second semester; lectures three hours; three credits. Prerequisite: French 207 or 208 or the equivalent. MR. OUSTINOFF.

Literary trends of the eighteenth century; study of representative works.

304. *Advanced Grammar and Composition*. Second semester; lectures three hours; three credits. Prerequisite: French 205 and another 200 course or the equivalent. MR. RINGGOLD.

Advanced syntax and intensive written work.

305, 306. *Advanced Conversation*. Continuous course; lectures three hours; three credits. Prerequisite: French 206 and another 200 course or the equivalent. MR. REBOUSSIN.

Advanced intensive oral-aural training.

401. *The Middle Ages and the Sixteenth Century*. First semester; lectures three hours; three credits. Prerequisites: French 301 and 302 or the equivalent. MR. MANIEY.

Survey of literature up to 1600. Study of representative works.

403. *Romanticism*. First semester; lectures three hours; three credits. Prerequisites: French 301 and 302 or the equivalent. MR. REBOUSSIN.

Romantic movement and its principal exponents; study of representative works.

404. *Realism, Naturalism, and Symbolism*. Second semester; lectures three hours; three credits. Prerequisites: French 301 and 302 or the equivalent. MR. REBOUSSIN.

Nature of these literary currents; study of representative authors and works.

405. *Advanced Writing in French*. First semester; lectures three hours; three credits. Prerequisite: French 304 or the equivalent. Consent of the instructor required. STAFF.

An intensive course in writing and language analysis particularly designed to assist students who are planning to teach French in secondary schools. (Students concentrating in French who are accepted for this course may substitute it for another required French course as approved by the Chairman of the Department.)

406. *Contemporary Literature*. Second semester; lectures three hours; three credits. Prerequisites: French 301 and 302 or the equivalent. STAFF.

Contemporary literary trends; study of representative authors and works.

GERMAN

REQUIREMENTS FOR CONCENTRATION

The following courses are required for concentration in German, and should be taken in the following order: German 205, 206, 207, 301, 302, 305, 401, 402, 403 and 404.

DESCRIPTION OF COURSES

101, 102. *Elementary German*. Continuous course, including training in pronunciation, aural-oral comprehension with the use of audio-visual techniques. Lectures four hours; language laboratory one hour; four credits each semester. STAFF.

Students who have acquired two high school units in German may not take German 101, 102 for credit. STAFF.

201. *Graded Readings in German Prose.* First semester; lectures three hours; three credits. Students who have acquired three high school units in German may not take German 201 for credit. STAFF.

A reading course which includes a grammar review.

202. *Readings in Masterpieces of German Literature.* Second semester; lectures three hours; three credits. Prerequisite: three high school units or 201 or the equivalent. MR. KORPI.

Selected readings from the masterpieces of German literature.

204. *Scientific German.* Both semesters; lectures three hours; three credits. Prerequisite: German 202 or the equivalent. MR. KORPI.

Reading of scientific texts in chemistry, physics, biology, and general science.

205. *Intermediate Grammar and Composition.* Both semesters; lectures three hours; three credits. Prerequisite: four high school units or 202 or the equivalent. STAFF.

Review of main principles of syntax; composition.

206. *Intermediate Conversation.* Both semesters; lectures three hours; three credits. Prerequisite: German 205 or the equivalent. STAFF.

Phonetics; intensive oral-aural training.

207. *The German-Speaking Peoples and Their Civilization.* Both semesters; lectures three hours; three credits. Prerequisite: four high school units or 202 or the equivalent. STAFF.

Reading course embodying the most important elements of Germanic Civilization, designed as an introductory step to the 300 courses.

301. *German Classicism.* First semester; lectures three hours; three credits. Prerequisite: German 207 or the equivalent. MR. KORPI.

Reading and interpretation of the chief works of Lessing, Goethe, and Schiller.

302. *Survey of German Literature*. Second semester; lectures three hours; three credits. Prerequisite: German 301 or the equivalent. MR. KORPI.

Main currents of German literature from its origin through the Baroque period; study of representative works.

303. *Advanced Scientific German*. First semester; lectures three hours; three credits. Continuation of German 204. Prerequisite: German 204. MR. KORPI.

Translating of difficult scientific articles in biology, chemistry, physics, general science, engineering, manufacturing, medicine, and psychology.

305. *Advanced German Composition and Conversation*. Second semester; lectures three hours; three credits. Prerequisites: German 205 and 206 or the equivalent. MR. KORPI or MR. KALLOS.

401. *From Romanticism to Poetic Realism*. First semester; lectures three hours; three credits. Prerequisite: German 301 or 302. MR. KORPI.

The Romantic Schools, political writers, the "Young Germany" circle, poetic realism, naturalism, impressionism; reading and interpretation of representative works.

402. *Modern German Literature*. Second semester; lectures three hours; three credits. Prerequisite: German 401 or the equivalent. MR. KALLOS.

Principal literary trends; reading and interpretation of representative works.

403. *German Poetry*. First semester; lectures three hours; three credits. Prerequisite: German 402 or the equivalent. MR. KALLOS.

Reading and interpretation of outstanding poetic works from the eighteenth century to the present.

404. *The Faust Sagas and Goethe's Faust*. Second semester; lectures three hours; three credits. Prerequisite: German 403 or the equivalent. MR. KORPI or MR. KALLOS.

Reading and interpretation of Goethe's *Faust* (First Part), and a study of its historical background and sources.

ITALIAN¹

101, 102. *Elementary Italian*. Continuous course, including training in pronunciation, aural-oral comprehension with use of audio-visual techniques. Lectures four hours; language laboratory one hour; four credits each semester. Students who have acquired two high school units of Italian may not take Italian 101, 102 for credit. MR. COKE.

201. *Intermediate Italian*. First semester; lectures three hours; three credits. Prerequisites: Italian 101 and 102 or the equivalent. MR. COKE.

A reading course which includes composition and oral practice.

202. *Reading in Italian Literature*. Second semester; lectures three hours; three credits. Prerequisites: Italian 101 and 102 or the equivalent. MR. COKE.

Selected readings from the literature of the eighteenth, nineteenth and twentieth centuries.

RUSSIAN¹

101, 102. *Elementary Russian*. Continuous course, including training in pronunciation, aural-oral comprehension with use of audio-visual techniques. Lectures four hours; language laboratory one hour; four credits each semester. Students who have acquired two high school units of Russian may not take Russian 101, 102 for credit. MISS TYLER.

201. *Intermediate Russian*. First semester; lectures three hours; three credits. Prerequisites: Russian 101 and 102 or the equivalent. MISS TYLER.

Review of the fundamentals of grammar and pronunciation and reading of moderately difficult texts.

202. *Readings in Masterpieces of Russian Literature*. Second semester; lectures three hours; three credits. Prerequisites: Russian 101 and 102 or the equivalent. MISS TYLER.

Selected readings from Russian literature of the 19th century.

¹Owing to limited instructional facilities, enrollment will be restricted.

SPANISH

REQUIREMENTS FOR CONCENTRATION

The following courses are required for concentration in Spanish; and should be taken in this order: 301, 302, 303, 305, 306, and four of the following courses 401, 402, 403, 404, 406.

Students planning to concentrate in Spanish are advised to choose Latin to satisfy the requirement of six semester credits in an Ancient Language.

DESCRIPTION OF COURSES

101, 102. *Elementary Spanish*. Continuous course, including training in pronunciation, aural-oral comprehension with the use of audio-visual techniques. Lectures four hours; language laboratory one hour; four credits each semester. Students who have acquired two high school units in Spanish may not take Spanish 101, 102 for credit. STAFF.

201. *Intermediate Spanish Reading*. Both semesters; lectures three hours; three credits. Prerequisite: two high school units or the equivalent. Students who have acquired three high school units in Spanish may not take 201 for credit. STAFF.

A reading course which includes a grammar review.

202. *Readings in Modern Literature*. Both semesters; lectures three hours; three credits. Prerequisite: three high school units, or one 200 course or the equivalent. STAFF.

Selected readings from the literature of the nineteenth and twentieth centuries.

205. *Intermediate Grammar and Composition*. Both semesters; lectures three hours; three credits. Prerequisite: Spanish 202 or the equivalent. MR. HOFFMAN.

Review of main principles of syntax; composition.

206. *Intermediate Conversation*. Both semesters; lectures three hours; three credits. Prerequisite: Spanish 205 or the equivalent. MR. MOORE.

Phonetics; intensive oral-aural training.

207. *The Spanish Heritage*. First semester; lectures three hours; three credits. Prerequisite: four high school units or 202 or the equivalent. STAFF.

Reading course embodying the most important elements of Hispanic civilization, designed as an introductory step to the 300 courses in literature.

208. *Readings in Masterpieces of Spanish Literature*. Second semester; lectures three hours; three credits. Prerequisite: four high school units or 202 or the equivalent. STAFF.

Selected readings from Spanish literature from the beginning to the present. A reading course designed as an introductory step to 300 courses in literature.

301. *Spanish Literature from the Beginning to 1700*. First semester; lectures three hours; three credits. Prerequisite: Spanish 207 or 208 or the equivalent. MR. MOORE.

Survey of Spanish literature from its beginning to the end of the Golden Age. Study of representative works.

302. *Spanish Literature from 1700 to the Present Time*. Second semester; lectures three hours; three credits. Prerequisite: Spanish 207 or 208 or the equivalent. MR. HOFFMAN.

Survey of Spanish literature from 1700 to the present. Study of representative works.

303. *Advanced Grammar and Composition*. Second semester; lectures three hours; three credits. Prerequisite: Spanish 205 and another 200 course or the equivalent. MR. STONE.

Advanced syntax and intensive written work.

305, 306. *Advanced Conversation*. Continuous course; lectures three hours; three credits. Prerequisites: Spanish 206 and another 200 course or the equivalent. MR. STONE.

Advanced intensive oral-aural training.

401.¹ *The Novel*. First semester; lectures three hours; three credits. Prerequisites: Spanish 301 and 302 or the equivalent. MR. STONE.

¹Required of majors in Spanish.

Survey of the early novel with detailed study of the modern novel since Romanticism. Study of representative works.

402. *Drama of the Golden Age*. First semester; lectures three hours; three credits. Prerequisites: Spanish 301 and 302 or the equivalent. MR. HOFFMAN.

Survey of the drama from its beginning. Detailed study of the drama of the Golden Age. Study of representative works.

403. *Cervantes*. Second semester; lectures three hours; three credits. Prerequisites: Spanish 301 and 302 or the equivalent. MR. MOORE.

The life and works of Cervantes with particular emphasis on the Quijote and the *Novelas Ejemplares*.

404. *Drama of the 19th and 20th Centuries*. Second semester; lectures three hours; three credits. Prerequisites: Spanish 301 and 302 or the equivalent. MR. MOORE.

Principal movements and authors in the drama of the 19th and 20th centuries. Study of representative works.

406. *Survey of Spanish American Literature*. Second semester; lectures three hours; three credits. Prerequisites: Spanish 301 and 302 or the equivalent. MR. HOFFMAN.

Principal literary movements in Spanish America. Study of representative works.

HONORS STUDY

495, 496. *Honors*. Continuous course; hours to be arranged; three credits each semester. STAFF.

Students admitted to Honors Study in Modern Languages will be enrolled in this course during both semesters of their senior year. The course comprises (a) supervised reading of a general bibliography in the language and literature of the student's field of concentration; (b) supervised reading of a special bibliography in the field of the student's major interest; (c) presentation by May 1 of a satisfactory Honors Essay in the field of the student's major interest; and (d) satisfactory performance in a comprehensive oral examination in the field of the student's major interest.

Music

PROFESSORS FEHR and TRUESDELL (*Head of the Department*),
ASSOCIATE PROFESSORS STEWART and VARNER.
ASSISTANT PROFESSOR PALEDES. LECTURERS
DARLING and KOMAN.

The Department of Music offers concentration in music appropriate for (1) prospective school music teachers; (2) students who desire a broad liberal arts program as cultural enrichment with the emphasis on music in combination with the other arts and humanities but who do not plan a professional career; and (3) prospective candidates for advanced degrees such as Master of Arts in Music or Doctor of Philosophy in Music who desire preparation as musicologists, composers, music librarians and college teachers.

REQUIREMENTS FOR CONCENTRATION

The basic requirements for concentration in Music include 12 credits in Music Theory (Music 201, 202, 301, and 302); 6 credits in Music History (Music 311 and 312); 8 credits in a single Applied Music Instruction field; and other credits in music for a maximum aggregate of 42 as indicated in the special concentration programs or in consultation with the Head of the Department. Proficiency at the Elementary Piano level is considered basic to all programs and is a requirement for graduation. All concentrators in Music are expected to participate in a senior recital, in lieu of which a term paper, an instrumental or choral arranging project, or an original musical composition may be accepted.

Concentrators in Music Education are required to complete Senior level Applied Music Instruction courses in their major applied music field for graduation. In addition, they should complete courses in both instrumental and vocal techniques.

Prospective music teachers are urged to begin the study of music as early as possible. It is not ordinarily possible to com-

plete the requirements for certification in Virginia in less than a three-year period.

Students preparing for the Virginia State Collegiate Professional Certificate are required by the Virginia Board of Education to qualify in general as indicated in the Education section of this catalogue on pages 130-131.

SPECIAL CONCENTRATION PROGRAMS IN PREPARATION FOR THE VIRGINIA COLLEGIATE PROFESSIONAL CERTIFICATE IN MUSIC

ELEMENTARY

Applied Music Ensemble.....	2-3	
Music 327—Choral Conducting.....	}	1
or		
Music 328—Instrumental Conducting.....	}	3
Music 321—Music in the Elementary School.....		
Music 323, 324, 325—Instrumental Techniques.....		
or	}	6-7
2 Semesters of Instrumental Techniques.....		
and		
Music 326—Choral Materials and Procedures.....		
		16-17

SECONDARY

Applied Music (In addition to basic requirements)		
Instruction.....	2	
Ensemble.....	4	
Music 327—Choral Conducting.....	}	1
or		
Music 328—Instrumental Conducting.....	}	3
Music 322—Music in Secondary School.....		
Music 323, 324, 325—Instrumental Techniques.....		
or	}	6-7
2 Semesters of Instrumental Techniques.....		
and		
Music 326—Choral Materials and Procedures.....		
		16-17

RECOMMENDED PROGRAMS FOR THE FIRST TWO YEARS IN ELEMENTARY MUSIC EDUCATION

FRESHMAN YEAR

English 101, 102.....	6
Foreign Language.....	6-8
Physics 103-104 is recommended; or Biology, Chemistry, or Geology.....	10
Music 201-202—Theory I.....	6
Physical Education.....	2

30-32

SOPHOMORE YEAR

English 201, 202.....	6
Foreign Language.....	6
History 101-102.....	6
Music 301-302—Theory II.....	6
Music 323, 324—Instrumental Techniques.....	4
Applied Music Instruction (Piano).....	2
Physical Education.....	2

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For an emphasis in teaching instrumental music in the Secondary Schools, it is recommended that Applied Music Instruction for 2 credits, 1 each semester, be added to the freshman year program; and that 2 credits be added to the sophomore year program in Applied Music Ensemble. The Applied Music Instruction should be on the major instrument.

For an emphasis in teaching vocal music in the Secondary Schools, it is recommended that Applied Music Ensemble for 2 credits, 1 each semester, be added to the freshman year program. In the sophomore year, Applied Music Ensemble for 2 credits, 1 each semester.

SPECIAL CONCENTRATION PROGRAMS IN THEORY AND MUSIC HISTORY AND LITERATURE

THEORY

Music 401, 402—Form and Analysis.....	4
Music 403, 404—Choral Arranging and Orchestration.....	4
Music 405 and 406—Counterpoint.....	4
Music 411, 412—Advanced Studies in Music History and Literature.....	} 4
or	
Music 413, 414—Problems in Music.....	4

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MUSIC HISTORY AND LITERATURE

Music 403—Choral Arranging.....	}	2
or		
Music 404—Orchestration.....	}	2
Music 405—Counterpoint.....		
or		
Music 406—Counterpoint.....		6
Music 411, 412—Advanced Studies in History and Literature.....		6
Music 413, 414—Problems in Music.....		6

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To the program as recommended for the first two years in Elementary Music Education, the following additions and changes should be made for an emphasis in either Theory or History and Literature: Add 2 credits in Applied Music Instruction to the freshman and sophomore years. Humanities 201-202 may be an alternate selection for English 201-202. Music 323, 324 (Instrumental Techniques) should be deleted from the program.

DESCRIPTION OF COURSES

THEORY

101, 102. *Introduction to Theory*. Continuous course; lectures two hours; two credits each semester. MR. STEWART.

First semester, fundamental terms and concepts of music, the elements of notation, scales and tone systems; second semester, style in music, and the underlying principles of music structure. May not be included in music concentration.

*201, 202. *Theory I*. Continuous course; lectures two hours; three credits each semester. Lab two hours. MR. STEWART.

Review of theory fundamentals; elementary harmony; the uses of triads, seventh chords and non-chord tones are learned through exercises, dictation, ear training and keyboard harmony.

301, 302. *Theory II*. Continuous course; lectures three hours; three credits each semester. Prerequisites: Music 201, 202. MR. STEWART.

Advanced harmony, dealing with simple and extended alteration, secondary dominants, and advanced modulation. Second semester, application of harmonic techniques to elementary composition.

401, 402. *Form and Analysis*. Continuous course; lectures two hours; two credits each semester. Prerequisites: Music 301, 302.

The structural processes and forms of music, studied through analysis of examples of various periods and styles.

403, 404. *Choral Arranging and Orchestration*. Continuous course; lectures two hours; two credits each semester. Prerequisites: Music 201, 202. MR. TRUESDELL and MR. STEWART.

First semester, choral arranging; second semester, orchestration.

405, 406. *Counterpoint*. Lectures two hours; two credits. Prerequisite: Music 301, 302. MR. STEWART, MR. TRUESDELL and STAFF. Not offered in 1964-65.

First semester; counterpoint in the style of J. S. Bach.

Second semester; counterpoint in the sixteenth century style of the motet, the madrigal and the Mass.

MUSIC HISTORY AND LITERATURE

211, 212. *Introduction to Music*. Continuous course; lectures two hours; listening and quiz one hour; three credits each semester. MR. PALEDES.

This course is designed to meet the needs of students interested in music, without regard to previous training and experience. It is not open to juniors or seniors concentrating in Music. The 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. The first semester goes to 1800; the second semester, from 1800 to the present.

*311, 312. *History*. Continuous course; lectures three hours; three credits each semester. MR. TRUESDELL.

First semester, Ancient Greeks to 1750; second semester, 1750 to present. Includes readings, reports, notated and recorded examples of all periods of western cultures.

313. *Great Composers*. First semester; lectures two hours; two credits. MR. TRUESDELL.

Major composers and works representative of various styles will be studied. The course is conducted on an intermediate level, and is not open to Music concentrators.

314. *The Symphony*. Second semester; lectures two hours; two credits. MR. TRUESDELL.

A study of representative symphonic works of various periods; their style, form and orchestral setting. The course is conducted on an intermediate level, and is not open to Music concentrators.

315, 316. *Opera*. Lectures two hours; two credits. MR. TRUESDELL.

Plots, music, and background of selected masterpieces from the standard operatic repertoire. First semester; Italian *bel canto* and French Grand Opera. Second semester; German Romantic Opera, Wagner, Strauss, Nationalists, and Modern developments. Each semester's work represents an individual unit, conducted on an intermediate level, and not open to Music concentrators. (Not offered 1964-1965.)

†413, 414. *Problems in Music*. Either semester. Two or three credits per semester. For seniors only. STAFF.

Individual advanced work under the direction of the instructor.

MUSIC EDUCATION

320. *Music for Elementary School Teachers*. Both semesters; lectures three hours; three credits. MR. VARNER.

A course designed for prospective general teachers in the elementary grades. Not open to Music concentrators.

*321. *Music in the Elementary School*. First semester; lectures three hours; three credits. MR. VARNER.

Problems confronting the teacher of music in the elementary schools, and methods of instruction appropriate to the several grades. Primarily for Music concentrators.

*322. *Music in the Secondary School*. Second semester; lectures three hours; three credits. MR. VARNER.

Materials and methods of instruction on the secondary school level.

*323, 324, 325. *Instrumental Techniques, Materials, and Methods*. Lectures two hours; two credits each semester. MR. VARNER.

Three semesters are assigned, one each to woodwinds, brass, and strings; the development of performance skills and a study of the materials and methods of teaching. Percussion is correlated throughout the three semesters.

*326. *Choral Materials and Procedures*. Second semester; lectures three hours; three credits. MR. FEHR.

A study of vocal and choral techniques and teaching methods.

*327, 328. *Choral and Instrumental Conducting*. Continuous course; lecture one hour; one credit each semester. MR. FEHR and MR. VARNER.

Study and practice in the techniques of the baton; problems of organizing musical groups.

†521, 522. *Graduate Seminar in Music*. Three credits per semester. STAFF.

Individual advanced work under the direction of the instructor.

APPLIED MUSIC

The College offers individual and group instruction in Voice, and individual instruction in Piano, Organ, Strings, Woodwinds, and Percussion.

A maximum of 10 credits may be earned through instruction courses, and a maximum of four credits may be earned through membership in musical organizations. Prerequisite or co-requisite for all credit courses in Applied Music is a course in Music Theory. No credit in Applied Music is given until this requirement has been satisfactorily completed.

Students will be assigned to the course for which they are qualified on the basis of a placement test. Applied Music as an

elective earns one credit. Advanced students meeting exceptional standards and requirements may earn two credits.

Individual instruction in Applied Music is on the basis of 30-minute private lessons once or twice weekly. Minimum preparation for each 30-minute lesson per week is one hour of daily practice.

Schedule of Fees Per Semester

One hour of group instruction per week.....	\$28.00
One 30-minute individual lesson per week.....	57.00
Two 30-minute individual lessons per week.....	94.00

ENSEMBLE

*131. Band	1 credit	MR. VARNER
*132. Choir	1 credit	MR. FEHR
*133. Chorus	1 credit	MR. FEHR
*134. Orchestra	1 credit	MR. STEWART
†135. Small Ensembles	1 credit	STAFF

CLASS

*Voice Class. MR. FEHR.

- 141. I, II. Elementary Voice Class. One or two credits.
- 241. I, II. Intermediate Voice Class. One or two credits.
- 341. I, II. Advanced Voice Class. One or two credits.

†INDIVIDUAL INSTRUCTION

*Voice 051-451. MR. FEHR.

- 051. Preparatory Voice. No credit.
- 151. I, II. Elementary Voice. One or two credits.
- 251. I, II, III, IV. Intermediate Voice. One or two credits.
- 351. I, II. Senior Voice. One or two credits.
- 451. I, II, III, IV. Advanced Voice. One or two credits.

*Piano 052-452. MR. TRUESDELL and MR. PALEDES.

- 052. Preparatory Piano. No credit.
- 152. I, II. Elementary Piano. One or two credits.
- 252. I, II, III, IV. Intermediate Piano. One or two credits.
- 352. I, II. Senior Piano. One or two credits.
- 452. I, II, III, IV. Advanced Piano. One or two credits.

***Organ 053-453. MR. DARLING.**

- 053. Preparatory Organ. No credit.
- 153. I, II. Elementary Organ. One or two credits.
- 253. I, II, III, IV. Intermediate Organ. One or two credits.
- 353. I, II. Senior Organ. One or two credits.
- 453. I, II, III, IV. Advanced Organ. One or two credits.

***Strings 054-454. MR. STEWART.**

- 054. Preparatory Strings. No credit.
- 154. I, II. Elementary Strings. One or two credits.
- 254. I, II, III, IV. Intermediate Strings. One or two credits.
- 354. I, II. Senior Strings. One or two credits.
- 454. I, II, III, IV. Advanced Strings. One or two credits.

***Woodwinds 055-455. MR. VARNER.**

- 055. Preparatory Woodwinds. No credit.
- 155. I, II. Elementary Woodwinds. One or two credits.
- 255. I, II, III, IV. Intermediate Woodwinds. One or two credits.
- 355. I, II. Senior Woodwinds. One or two credits.
- 455. I, II, III, IV. Advanced Woodwinds. One or two credits.

***Brass 056-456. MR. KOMAN.**

- 056. Preparatory Brass. No credit.
- 156. I, II. Elementary Brass. One or two credits.
- 256. I, II, III, IV. Intermediate Brass. One or two credits.
- 356. I, II. Senior Brass. One or two credits.
- 456. I, II, III, IV. Advanced Brass. One or two credits.

***Percussion 057-457. STAFF.**

- 057. Preparatory Percussion. No credit.
- 157. I, II. Elementary Percussion. One or two credits.
- 257. I, II, III, IV. Intermediate Percussion. One or two credits.
- 357. I, II. Senior Percussion. One or two credits.
- 457. I, II, III, IV. Advanced Percussion. One or two credits.

Philosophy

PROFESSOR MACDONALD (*Head of the Department*). ASSOCIATE
PROFESSORS FOSTER AND LACHS. ASSISTANT PROFESSORS
REED and ROGERS. INSTRUCTOR LEACH.

REQUIREMENTS FOR CONCENTRATION

Students concentrating in Philosophy must take at least 27 credits in Philosophy and three in Psychology. The 27 credits in Philosophy must include Philosophy 201, 202 (*The History of Philosophy*) and Philosophy 301 (*Introduction to Logic*).

DESCRIPTION OF COURSES

101, 102. *Analysis of Concepts*. Continuous course; discussion three hours; three credits each semester. Prerequisite: Freshman standing and consent of the instructor. MR. MACDONALD.

An introduction to techniques of philosophical analysis through practice in their application to some of the concepts fundamental to Western thought such as: freedom, individuality, nature, symbol, knowledge, law, infinity, education, and value. Informal explication of selected concepts will aim at standards of rigor and precision comparable to what is demanded in the analysis of concepts in formal systems such as natural science and mathematics.

201, 202. *The History of Philosophy*. Continuous course; lectures three hours; three credits each semester. MR. MACDONALD.

An historical introduction to philosophy with readings from Plato, Aristotle, Lucretius, and St. Thomas Aquinas during the first semester; and from Descartes, Locke, Berkeley, Hume, and Schopenhauer during the second semester.

211-212. *Sophomore Seminar in Philosophy*. Continuous course; seminar two hours; two credits each semester. Prerequisite: Consent of the instructors. STAFF.

Directed reading, discussion and presentation of papers on selected topics in philosophy. Enrollment is limited to approximately twelve students.

301. *Introduction to Logic*. Both semesters; lectures three hours; three credits. MR. LEACH, MR. MACDONALD, MRS. REED and MR. ROGERS.

An introduction to principles of valid reasoning with special emphasis on modern symbolic techniques and their uses.

302. *Intermediate Logic*. Second semester; lectures three hours; three credits. MR. LEACH.

A continuation of Phil. 301.

303. *Ethics*. First semester; lectures three hours; three credits. MR. LACHS.

A consideration of problems and theories about such topics as good and evil, right and wrong, pleasure, choice, duty, happiness and the good life.

304. *Aesthetics*. First semester; lectures three hours; three credits. MR. FOSTER.

A philosophical analysis of the nature of aesthetic experience and its object, with a consideration of apprehension and judgment, concepts and criteria, and meaning and truth in the arts.

305. *Social and Political Ideologies*. Second semester; lectures three hours; three credits. MR. LACHS.

An examination of the philosophical background of European social and political theories of the past one hundred years. Analysis of selected writings of such philosophers as Hegel, Marx, Nietzsche and Spencer.

306. *Contemporary Philosophy*. First semester; lectures three hours; three credits. MR. LEACH.

An examination of major types and movements in Twentieth Century philosophy: e.g., naturalism, idealism, realism, pragmatism, existentialism.

308. *Continental Rationalism*. Second semester; lectures three hours; three credits. MR. LACHS.

Study of the philosophical system of Descartes, Spinoza and Leibniz.

310. *Philosophy of Religion*. First semester; lectures three hours; three credits. MRS. REED.

A philosophical investigation of the nature of religious experience, activity, and belief including the examination of such concepts as God, freedom and immortality as they appear in religion.

312. *Philosophical Problems*. First semester; lectures three hours; three credits. Prerequisites: Philosophy 201, 202. MR. ROGERS.

A study of major philosophical problems, such as methods of philosophy and science, problems of knowledge and reality, morality and conduct, and art and beauty.

321. *Philosophy of Science*. Second semester; lectures three hours; three credits. Prerequisites: Philosophy 201, 202 or Physics 101, 102 or Physics 103, 104. MR. McKNIGHT¹ and MR. ROGERS.

A philosophical consideration of the methods, assumptions and logic of modern science. Certain historical and structural relations of mathematics, and physical, biological and social sciences will be examined through representative readings. The contribution of modern science to philosophy will be appraised. (Same as Physics 321.)

401. METAPHYSICS. Second semester; lectures three hours; three credits. Prerequisites: Phil. 201, 202. MR. LACHS.

An examination of theories concerning such topics as being and nothingness, substance and accident, essence and existence, universals and particulars and mind and body.

402. *Medieval Philosophy*. Second semester; lectures three hours; three credits. MR. FOSTER.

Analysis of selected writings of major medieval philosophers such as Scotus Erigena, Anselm, Maimonides, Bonaventura, and Aquinas.

¹Associate Professor of Physics.

403. *Theory of Knowledge*. Second semester; lectures three hours; three credits. Prerequisites: Phil. 201, 202. MRS. REED.

An examination of theories concerning such topics as the nature and criteria of truth, perception and cognition, the nature and limits of knowledge, and verification and meaning.

†405. *Advanced Reading in Philosophy*. Any semester; hours to be arranged; credit according to the work done. Prerequisites: Phil. 201, 202. MR. MACDONALD, MR. ROGERS, MR. FOSTER, MR. LACHS, MRS. REED and MR. LEACH.

Individually supervised readings on special topics for advanced students. Prerequisite: Four courses in philosophy and permission of the department.

406. *British Empiricism*. First semester; lectures three hours; three credits. Prerequisites: Phil. 201, 202. MRS. REED.

A study of the philosophical writings of Locke, Berkeley, and Hume.

407, 408. *Senior Seminar in Philosophy*. Continuous course; seminar three hours; three credits each semester. STAFF.

A meeting of the Faculty of the Department with advanced students for the purpose of philosophical investigation. An important modern philosophical work is examined each semester and students are required to write and present papers for critical discussion.

411-415. *The Great Philosophers*. Each course one semester; lectures three hours; three credits. Prerequisites: Philosophy 201, 202. MR. MACDONALD, MR. FOSTER, MR. LACHS, MR. ROGERS, MRS. REED and MR. LEACH.

In general it is the plan of the department to offer one or two of the following courses each year:

411. *The Philosophy of Plato*.

412. *The Philosophy of Aristototele*.

413. *The Philosophy of Spinoza*.

414. *The Philosophy of Hume*.

415. *The Philosophy of Kant*.

Legal Philosophy. Second semester; lectures three hours; three credits. (See Marshall-Wythe School of Law, page 192.)

HONORS STUDY

495-496. *Honors.* Continuous course; hours to be arranged; three credits each semester. STAFF.

Students admitted to Honors Study in Philosophy will be enrolled in this course during both semesters of their senior year. The course comprises (a) supervised reading in the field of the student's major interest; (b) supervised reading of works selected from a general bibliography in the field of concentration; (c) satisfactory completion of a comprehensive examination covering Logic, History of Philosophy, Ethics or Aesthetics and Metaphysics or Theory of Knowledge; (d) the preparation and presentation by May 1 of an Honors Essay.

Physical Education for Men

ASSOCIATE PROFESSORS SMITH (*Head of the Department*) and
JENSEN. ASSISTANT PROFESSORS CHAMBERS, LINKENAUER
and HOOKER. INSTRUCTORS NEILSON, PECCATEILLO,
TAMMARIELLO and WITTEN. LECTURERS AGEE,
DERRINGE and GROVES. COLLEGE PHYSICIAN
DEBORD, M.D.

REQUIREMENTS FOR CONCENTRATION

The minimum number of semester credits required for concentration in Physical Education is 34 and must include Physical Education 203, 308, 310, 313, 413, 316 or 412, 408, 411, 494 and Biology 307 and 308. All courses except Physical Education 203 and 208 of the concentration program must be taken during the student's junior and senior years.

Students may elect to take either the B.S. degree or the A.B. degree. (See pages 86-89.)

Those students desiring to meet the professional requirements for certification in the State of Virginia should plan their programs with the head of the Department of Physical Education. Students enrolling in professional courses to meet certification requirements in other states should first consult a member of the faculty of the Department of Education.

PROGRAM FOR ADVANCED STUDY

Students who are qualified for advanced study and who have satisfied admission requirements may register for the Master of Arts Degree with concentration in Physical Education or for the degree of Master of Education with emphasis in Education and Physical Education as a related field. (See pages 131-132.) A minimum residence period of one regular session or of four summer sessions of nine weeks is required.

In addition to the general requirements for admission established by the College, students desiring to enter upon graduate study in Physical Education should present satisfactory undergraduate work in Physical Education or related fields, from a recognized institution.

A minimum of 15 credits of the total 24 submitted for the Master of Arts degree must be in the department of concentration. Other courses should be selected from related departments such as Education, Sociology and Biology, or selected from additional courses in Physical Education. For special requirements of the M.Ed. degree, see pages 131-132.

SPECIAL CONCENTRATION PROGRAM LEADING
TO STATE CERTIFICATION

FRESHMAN YEAR

<i>First Semester</i>	<i>Credits</i>	<i>Second Semester</i>	<i>Credits</i>
Biology 101, or Chemistry 101, or Physics 101, 103.....	5	Biology 102, or Chemistry 102, or Physics 102, 104.....	5
English 101.....	3	English 102.....	3
Language.....	3 or 4 ¹	Language.....	3 or 4 ¹
Mathematics 101.....	3	Mathematics 102.....	3
Physical Education 101.....	1	Physical Education 102.....	1
Elective.....	2	Elective.....	2
—		—	
Total Semester Credits..	15 to 18	Total Semester Credits..	15 to 18

SOPHOMORE YEAR

English 201.....	3	English 202.....	3
Economics 201... } Government 201... } History 101.... } Sociology 201.... }	Two of Four 6	Economics 202... } Government 202... } History 102.... } Sociology 202.... }	Two of Four 6
Language.....	3 or 4 ¹	Language.....	3 or 4 ¹
Physical Education 203.....	3	Physical Education 208.....	3
Physical Education 201.....	1	Physical Education 202.....	1
Elective.....	2	Elective.....	2
—		—	
Total Semester Credits..	15 to 18	Total Semester Credits..	16 to 19

JUNIOR YEAR

Biology 307.....	3	Biology 308.....	3
Education 301.....	3	Education S302.....	3
Physical Education 310.....	2	Physical Education 308.....	3
Physical Education 313.....	2	Physical Education 312.....	3
Physical Education 321.....	3	Physical Education 316.....	2
Elective.....	4-5	Elective.....	2-4
—		—	
Total Semester Credits..	17 to 18	Total Semester Credits..	16 to 18

¹See page 85.

SENIOR YEAR

<i>First Semester</i>	<i>Credits</i>	<i>Second Semester</i>	<i>Credits</i>
History 201.....	3	Education 411 or 404.....	3
Physical Education 494.....	3	Physical Education 408.....	3
Physical Education 411.....	3	Physical Education 412.....	2
Physical Education 413.....	2	Physical Education 414.....	2
Physical Education 415.....	3	Physical Education 416.....	3
Elective.....	3-4	Elective.....	3-4
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Total Semester Credits..17 to 18		Total Semester Credits..16 to 17	

NOTE: Electives may very well be used to make up a teaching minor. Possible minors are in language, mathematics, science, and social studies.

The above comprehensive program qualifies a person for a number of positions: teaching Physical Education in a consolidated school or a large secondary school; teaching Physical Education and a second subject in a small secondary school; coaching and directing athletics combined with the teaching of another subjects or subjects; supervising physical education and recreation programs; summer camp work; and preparation for graduate study in Physical Education or Physical Therapy.

DESCRIPTION OF COURSES

Students concentrating in other departments may elect physical education courses according to interest or to prepare for teaching combinations, recreation work, or other related fields.

101, 102, 201, 202. *Required Physical Education.* Both semesters; three hours or two double periods; one credit each semester. STAFF.

All freshman and sophomore men must register for required Physical Education, and placement in activities will be based on the results of initial skill tests. Students with physical defects will be registered in a special adapted sports class on the recommendation of the college physician. Instruction is given in the following individual and group activities: advanced swimming and life saving, beginning swimming, badminton, basketball, golf, handball, soccer, softball, speedball, tennis, touch football, track and field, tumbling, volleyball, and wrestling. Each student must attain a satisfactory degree of proficiency in one team or group

activity, one individual indoor activity, one individual outdoor activity, and must pass a swimming test. A regulation uniform is required.

203. *Playground and Recreational Activities*. First semester; lectures and laboratory four hours; three credits. MR. SMITH.

Theory, practice, teaching fundamentals of basic skills and relays of low organization; team and individual activities for both elementary and secondary level. Physical fitness testing.

208. *First Aid, Safety and Driver Education*. Second semester; lectures and laboratory four hours; three credits. MR. JENSEN.

Advanced Red Cross First Aid, advanced certificate awarded upon successful completion of course; safety projects and problems; selection and organization of materials, methods, and techniques of driver education including behind the wheel instruction.

308. *Applied Anatomy and Kinesiology*. Second semester; lectures three hours; three credits. Prerequisite: Biol. 308. MR. LINKENAUER.

A study of the principles of human motion. Anatomical and mechanical analysis of individual skills in physical education activities.

310. *History and Principles of Physical Education*. Either semester; lectures three hours; three credits. MR. JENSEN.

An orientation course in the history and principles of physical education, health, and recreation.

312. *Physical Education—General Theory*. Second semester; lectures three hours; three credits. MR. SMITH.

Application of teaching fundamentals and techniques. Evaluation of test materials and measurement programs; curriculum construction.

313. *Advanced Gymnastics and Wrestling*. First semester; lectures and laboratory four hours; two credits. MR. WITEN and MR. JENSEN.

Tumbling stunts, trampoline, heavy apparatus and body conditioning skills. Pyramid building and exhibition planning. Theory, practice, and coaching of wrestling.

316. *Theory and Coaching of Baseball, Track and Field.* Second semester; lectures and laboratory four hours; two credits. MR. AGEE and MR. GROVES.

Study of approved techniques in coaching baseball, track and field in all phases. Acquisition of advanced skills and competencies.

318. *Sports Officiating.* Either semester; lectures and laboratory four hours; two credits. MR. JENSEN.

Analysis of the rules, officiating techniques and problem solving in officiating team sports. A minimum of twelve contact hours of practical experience in supervised officiating in the intramural program is required.

321. *Foundations of Health Education.* Either semester; lectures three hours; three credits. MR. SMITH.

Instructional concepts applicable to health education for various age levels, organization of classes, selection of content and evaluation of outcomes. Survey of State Department publications and other resource material.

408. *Organization and Administration of Health and Physical Education Programs.* Second semester; lectures three hours; three credits. MR. SMITH.

Organizational and administrative policies and procedures for physical education, health, and intramural programs in junior and senior high schools.

409. *Organization and Administration of Community Recreation Programs.* First semester; lectures two hours; two credits. MR. GROVES.

Administrative policies and procedures; legal aspects; public relations; qualifications and duties of personnel; study of federal, state and local agencies.

411. *Therapeutic Physical Education.* First semester; lectures three hours; three credits. Prerequisite: Biol. 308. MR. SMITH and MR. LINKENAUER.

Physical examinations with emphasis placed on the recognition of normal and faulty postural conditions at various age levels. Special attention given to remedial exercises and adaptive activi-

ties, theory and practice of taping and massage, techniques and modalities in physical therapy and their application to physical education injuries.

412. *Theory and Coaching of Football and Basketball*. Second semester; lectures and laboratory four hours; two credits. MR. NEILSON and MR. AGEE.

Theory, practice, and coaching methods; team problems.

413. *Advanced Tennis and Golf*. First semester; lectures and laboratory four hours; two credits. MR. DERRINGE and MR. CHAMBERS.

Theory, practice and coaching methods and techniques.

414. *Advanced Swimming and Rhythmics*. Second semester; lectures and laboratory four hours; two credits. MR. JENSEN and MR. SMITH.

Theory, practice, coaching methods and techniques in swimming and diving. Red Cross Water Safety Instructor Certificate may be earned. Fundamental rhythmics, folk and square dancing.

415, 416. *Student Teaching*. Continuous course; five hours; three credits each semester. Prerequisites: senior standing, nine credits in Education; fifteen semester credits in Physical Education. MR. SMITH.

Daily observation and teaching at the laboratory school. Weekly conferences, special assignments and reports.

492. *Physiology of Activity*. Graduate credit. Either semester; lectures three hours; three credits. Prerequisite: Biol. 305, or the equivalent. MR. LINKENAUER.

Physiological aspects of exercise, fatigue, coordination, training and growth; functional tests with normal and abnormal subjects; investigations and independent readings.

493. *Philosophy and Literature in Health, Physical Education and Recreation*. Graduate credit. Either semester; lectures three hours; three credits. MR. SMITH.

Extensive readings, discussions and evaluations of historical and current philosophies and practices; educational implications of problems facing the separate fields.

494. *Test and Measurements in Health, Physical Education and Recreation.* Either semester; lectures three hours; three credits. Prerequisite: Education 414 or approval of instructor. MR. WITTEN.

Evaluation techniques which may be employed in health education and physical education. Emphasis is placed on tests of physical fitness, sports ability, body mechanics, growth, and written health tests. History of tests and measurements, organization of tests and measurements program and classification and grading practices.

502. *Problems and Research in Health, Physical Education and Recreation.* Either semester; lectures three hours; three credits. Prerequisite: Education 501 or the equivalent. MR. SMITH.

The application of various methods and statistical techniques as most commonly used in physical education research. Limited research studies and problems are conducted in the three areas.

503. *Seminar in Advanced Techniques in Sports.* Either semester; lectures three hours; three credits. MR. HOOKER.

Consideration given to the designing of plays, types of strategy, and instruction and handling of players.

506. *Administration and Supervision in Physical Education, Health and Recreation.* Either semester; lectures three hours; three credits. MR. SMITH.

Problems of administration and supervision in the three areas, modification of programs to fit the facilities available, curriculum planning, grading procedures and techniques of instruction.

508. *Health Coordination.* Either semester; lectures three hours; three credits. MR. SMITH.

Factors of school and community activities related to health. Relationships of the service, instructional, protective, and guidance phases in the health program.

MEDICAL ATTENTION

The College will not be responsible for doctors' bills for medical attention of any kind for students who are injured in Intramural Sports, Intercollegiate Athletics or Physical Education classes, except such attention as is furnished by the College physician and resident nurses. (See page 63.)

Physical Education for Women

ASSOCIATE PROFESSORS REEDER (*Head of the Department*) and
BARKSDALE. ASSISTANT PROFESSORS BARRETT and WALLACE.
INSTRUCTOR RUCKER. COLLEGE PHYSICIAN DEBORD, M.D.

All freshmen and sophomores must register for Physical Education. Proficiency must be established in team sports, individual sports, swimming, and dance. Placement in activities is based upon the home physician's medical report. A regulation uniform is required.

DESCRIPTION OF COURSES

101. *Team Sports*. Both semesters; two double periods; one credit. MISS BARKSDALE, MISS RUCKER and MISS REEDER.

Seasonal activities; hockey, basketball, volleyball, and lacrosse.

102. *Dance*. Both semesters; two double periods; one credit. MISS WALLACE and MISS RUCKER.

Fundamentals of modern dance.

†145, 146. *Adapted Activities*. First and second semesters; two double periods, one credit each semester. STAFF.

Upon recommendation of the College physician these courses may be substituted for required courses.

†195, 196. *Selected Sports and Dance Activities*. First and second semesters; two double periods; one credit. MISS REEDER.

Upon recommendation of the head of the Department, these courses (designed for proficient students) may be submitted for required courses.

201. *Swimming*. Both semesters; two double periods; one credit. MISS BARRETT and MISS RUCKER.

Safety skills, standard swimming strokes, diving, life saving techniques.

202. *Individual Sports*. Both semesters; two double periods; one credit. MISS BARKSDALE, MISS REEDER and MISS BARRETT.

Seasonal activities: archery, tennis, fencing, badminton, bowling and golf.

ELECTIVE COURSES IN PHYSICAL EDUCATION FOR WOMEN

The following courses are intended to supplement the four semesters of required physical education and may be elected for academic credit. These courses are open to juniors and seniors, and may be elected concurrently with a required class by sophomores. Freshmen may elect these courses in addition to required work with permission of the head of the Department.

302. *Waterfront Leadership*. Second semester; lectures and laboratory, four hours; two credits. Prerequisite: Senior Life Saving (students should be at least nineteen years of age). MISS BARRETT.

Especially designed for students who wish to do camp and playground work and includes Instructor's course of the American Red Cross.

303, 304. *Coaching and Officiating of Selected Sports*. Both semesters; lectures and laboratory four hours; two credits each semester. Prerequisite: Proficiency in two of the following sports: hockey, basketball, tennis, swimming, softball. MISS BARKSDALE and MISS REEDER.

Theory and practice in the coaching and officiating of two seasonal sports each semester. Women's National Officials Rating Tests will be given.

305, 306. *Dance Composition*. Continuous course; lectures and laboratory, four hours; two credits each semester. Prerequisite: Physical Education 102. MISS WALLACE.

First Semester: An introduction to the elements, materials and structure of a dance composition.

Second Semester: Composition of dance etudes; form and style related to other modern arts.

WOMEN'S SPORTS

Recreational activities are conducted under the auspices of the Women's Athletic Association Committee. (See page 51.)

MEDICAL ATTENTION

The College will not be responsible for doctors' bills for medical attention of any kind for students who are injured in athletics or Physical Education classes, except such attention as is furnished by the College physician and resident nurses. (See page 63.)

Physics

PROFESSORS PITTMAN (*Head of the Department*), McLENNAN and SIEGEL. ASSOCIATE PROFESSORS CRAWFORD, CROWNFIELD, FUNSTEN, LAWRENCE, MCKNIGHT, SMITH, SINGH and WELSH. ASSISTANT PROFESSORS ECKHAUSE¹, KERNELL², LONG and OFELT.

REQUIREMENTS FOR CONCENTRATION

Students desiring to concentrate in Physics should enroll in the Pre-Engineering Program for the first year. The minimum number of semester credits required for concentration in Physics is 37, and must include Physics 101, 102, 203, 207, 208, 303, 304, 411, 412³, and 6 semester credits selected from Physics 405, 406, 407, 409. It is strongly recommended that the qualified student begin calculus in the freshman year.

DESCRIPTION OF COURSES

101, 102. *General Physics*. Continuous course; lectures four hours, laboratory two and one-half hours; five credits each semester. MR. PITTMAN and STAFF.

Mechanics, heat, and sound first semester. Electricity, light and modern physics second semester. Required of all students concentrating in physics, all pre-medical students, and all students preparing for engineering. Students concentrating in one of the sciences or mathematics who choose physics for satisfying the distribution requirements, should enroll in Physics 101-102, not Physics 103-104.

103, 104. *Elementary Physics*. Continuous course; lectures four hours; laboratory two and one-half hours; five credits each semester. MR. CRAWFORD and STAFF.

A beginning course in College Physics satisfying the distribution requirements in the field of science. Designed for the non-science concentrator. Mechanics, heat and sound first semester;

¹Second semester, 1963-1964.

²On leave of absence, 1963, 1964.

³Students enrolled in 495, 496 are not required to take Physics 411, 412.

electricity, light and atomic physics second semester. Attention is given to the historical development and philosophical significance of physical concepts and theories. Applications to elementary problems. The role of physics in the modern world.

106. *Descriptive Astronomy*. Second semester; lectures three hours; three credits. MR. SMITH.

Descriptive study of the solar system; theories of origin of the solar system. Star classification; descriptive studies of star clusters and galaxies. Recommended for science teachers. An elective course with no credit in physics.

203. *Introduction to Modern Physics*. First semester; lectures three hours; laboratory three hours; four credits. Prerequisite: two semesters in physics and calculus. MR. WELSH.

A consideration of selected topics including classical physics, the electron, electromagnetic radiation, wave and particle aspects and particles and quantum, the Rutherford-Bohr atom, many electron atoms, electrons and photons, radioactivity, nuclear reaction. Selected laboratory experiments with atoms, electrons, ions, and atomic spectra.

207. *Geometrical and Physical Optics*. Second semester; lectures three hours; laboratory three hours; four credits. Prerequisite: two semesters of physics and calculus. MR. CRAWFORD and MR. PITTMAN.

Geometrical optics; theory and use of the prism spectrometer; diffraction phenomena, interferometry; polarization phenomena; application of the theory of physical optics; experiments in optics and spectroscopy.

208. *Mechanics*. First semester; lectures three hours; three credits. Prerequisites: three semesters of physics and calculus. MR. LAWRENCE.

Theoretical applications of the laws of mechanics; numerous problems in mechanics. The combination of Physics 208 and Physics 307 meets the mechanics course requirements for admission to the junior class of engineering schools.

211. *Electronics*. First semester; lectures two hours weekly, laboratory three hours; three credits. Prerequisites: two semesters of physics and enrollment in calculus. STAFF.

Electronics: characteristics of modern vacuum and gas-filled thermionic tubes and their application in circuits of importance to scientific work and instrumentation.

300. *Mathematical Physics*. Second semester; lectures three hours; three credits. Prerequisite: Mathematics 203. MR. SMITH.

A consideration of mathematical principles from the viewpoint of applications to physical problems. Topics selected from ordinary differential equations and vector analysis. This course does not carry credit in physics.

302. *Thermodynamics*. Second semester; lectures three hours; three credits. Prerequisite: concurrent enrollment in Mathematical Physics 300 or Mathematics 302 or the consent of the instructor. STAFF.

Theory of thermodynamics. Applications of thermodynamics to ideal and actual systems.

303, 304. *Electricity and Magnetism*. Continuous course; lectures three hours; laboratory three hours; four credits each semester. MR. McLENNAN and MR. LONG.

Development of the theory of electricity and magnetism from fundamental principles employing vector treatment. This includes DC and AC circuit theory and analysis and an introduction to Maxwell's equations.

Laboratory training includes DC and AC electrical measurements and an introduction to electronics.

307. *Engineering Mechanics*. Second semester; lectures three hours; three credits. Prerequisite: Physics 208. MR. SMITH.

Statics, dynamics, kinematics of rigid bodies; deformable media. Analytic and graphic methods of solution. Emphasis on application of basic principles to the solution of problems. (See Physics 208.)

321. *Philosophy of Science*. Second semester; lectures three hours; three credits. Prerequisites: Philosophy 201, 202 or Physics 101, 102, or Physics 103 or 104. MR. McKNIGHT or MR. ROGERS.

A philosophical consideration of the methods, assumptions, and logic of modern science. Certain historical and structural relations of mathematics, and physical, biological, and social sciences will be examined through representative readings. The contribution of modern science to philosophy will be appraised. (Same as Philosophy 321.)

401. *Mathematical Physics*. First semester; lectures three hours; three credits. Prerequisite: Mathematical Physics 300 or the consent of the instructor. MR. SMITH.

A consideration of mathematical principles from the viewpoint of applications to physical problems. Topics selected from vector analysis, theory of complex variables, partial differential equations, orthogonal functions and operational methods. This course does not carry undergraduate credit in physics.

405. *Introduction to Theoretical Physics I*. First semester; lectures three hours; three credits. MR. LAWRENCE.

Motions of particles and rigid bodies; LaGrange and Hamilton's Equations. Methods of vector calculus.

406. *Introduction to Theoretical Physics II*. Second semester; lectures three hours; three credits. MR. LAWRENCE.

Thermodynamics; introduction to statistical mechanics; electrostatics; introduction to electrodynamics.

407. *Modern Physics*. Second semester; lectures three hours; three credits. MR. OFELT.

A comprehensive study of the concepts and experiments in x-rays, radiation, atomic spectra, nuclear phenomena, fundamental particles, solid state physics, electromagnetism, quantum theory, and theory of relativity.

409. *Introduction to Quantum Mechanics*. First semester; lectures three hours; three credits. Prerequisite: six semesters of physics and the consent of the instructor. MR. OFELT.

The postulates of quantum theory. The wave equation in one and three dimensions. Applications of quantum theory to simple system. Approximation methods.

411, 412. *Problems in Physics*. A continuous course; laboratory six hours; one credit per semester. STAFF.

An introduction to research techniques in physics. Required of all physics majors.

413. *Nuclear Physics*. Second semester; lectures three hours; three credits. STAFF.

Fundamental properties of nuclei, nuclear forces, nuclear reactions, elementary description of nuclear models, interaction of radiation with matter, radioactivity. Brief introduction to nuclear measurement equipment, particle accelerators and high energy experimental nuclear physics.

414. *Nuclear Physics Laboratory*. Second semester; laboratory three hours; one credit. STAFF.

Introduction to the experimental apparatus of nuclear physics, geiger counters, scintillation counters, solid state detectors, amplifiers, pulse height analyzers, etc. Interaction of radiation with matter, alpha, beta and gamma ray absorption, neutron scattering, neutron activation analysis. Counting statistics and the treatment of experimental data.

495, 496. *Honors*. Continuous course; hours to be arranged; three credits each semester. MR. McKNIGHT.

Students admitted to Honors Study in Physics will be enrolled in this course during both semesters of their senior year. Each candidate will be responsible for (a) reading and discussion of a selected list of books in some specific area of the literature of physics; (b) the preparation and presentation by May 1 of an Honors Essay based on his own research or his part of a major research project; (c) satisfactory completion of a comprehensive examination in the field of the student's major interest.

MASTER OF ARTS DEGREE IN PHYSICS

ADMISSION AND REQUIREMENTS

The candidate for the degree of Master of Arts in Physics must meet the following requirements in addition to the general requirements stated on pages 91-92 of this catalogue:

1. After consultation with the Physics Department, the student may be required to take undergraduate courses in which his preparation is deemed inadequate.
2. The student must demonstrate a reading knowledge of French, German or Russian, in the subject matter of Physics.
3. All graduate students are required to take an examination on the entire field of undergraduate physics. This examination is usually given during the first semester of graduate study.
4. The student is required to register for Physics 505 *Seminar*, during a minimum of one semester of residence.
5. The thesis topic must be chosen and work begun in consultation with the Physics Department staff. Work completed while working elsewhere (e.g., NASA Langley Research Center) may be used as a thesis provided the above requirement is met.

DOCTOR OF PHILOSOPHY DEGREE IN PHYSICS

ADMISSION AND REQUIREMENTS

1. Admission requirements are the same as for the Master's degree.
2. A minimum of three years of graduate study, at least one of which must be in residence at the College of William and Mary. The student must register for either courses or research during the period of residency.
3. The application for admission to candidacy for the Ph.D. degree must be filed one academic year, or two semesters, before the date at which the degree is expected.
4. Admission to graduate work in the Department does not necessarily imply admission to candidacy for a degree, which is contingent upon the approval of the Department.
5. Application must be submitted by the student to the Chairman of the Department in order to obtain his recommendation for admission to candidacy. Approval of the application certifies:
 - a. That the candidate has begun his investigation for a dissertation and that an approved title has been submitted.

- b. That he is recommended to candidacy for the Doctor's degree. The Department will require the candidate to take a comprehensive qualifying examination to demonstrate his factual and theoretical knowledge of physics.
 - c. That the candidate has a reading knowledge of two foreign languages selected from French, German and Russian, or other languages approved by the Chairman of the Department.
6. Acceptance by the Department of a dissertation submitted for the degree. This final acceptance must be obtained at least two weeks before the date of convocation.
7. The passing of the final examinations, which constitutes an oral defense of the dissertation and examination in the field covered by the dissertation.

GRADUATE COURSES

Prerequisites for these courses may be waived at the discretion of the instructor.

501. *Classical Mechanics*. First semester; lectures three hours; three credits. Prerequisite: Introduction to Theoretical Physics. MR. McLENNAN.

Lagrangian and Hamiltonian mechanics; central force motion; relativistic mechanics; oscillatory motion.

502, 502a. *Classical Electricity and Magnetism*. Continuous course; lectures three hours; three credits each semester. MR. SIEGEL.

Topics discussed include solution of electrostatic problems by Green's functions and direct solution of Laplace's equations; magnetostatics; energy and momentum in electromagnetic field; Maxwell's equations, electromagnetic waves in free space and with conducting boundaries; radiation from antennas and multipole arrays; field of moving charge; electron theory.

503. *Quantum Mechanics*. First semester; lectures three hours; three credits. Prerequisite: Introduction to Quantum Mechanics. MR. McKNIGHT.

Formal development of the quantum theory from its postulates. Matrix representatives. Theory of symmetry. Applications to the structure of atoms and molecules.

503a. *Quantum Mechanics*. Second semester; lectures three hours; three credits. Prerequisite: Physics 503. MR. MCKNIGHT.

Quantum theory of radiation and of scattering. Cross sections for quantum process. Techniques for the calculation of observables.

504. *Advanced Nuclear Physics*. Second semester; lectures three hours; three credits. Prerequisites: Introductory Nuclear Physics and Introduction to Quantum Mechanics. STAFF.

A course in low energy Nuclear Physics including the properties of nuclear forces, a strict treatment of the deuteron, nuclear scattering theory, direct interaction theory, nuclear models and electromagnetic transitions.

504a. *Advanced Nuclear Physics*. First semester; lectures three hours; three credits. Prerequisite: Physics 504. STAFF.

The predominant emphasis will be on the high-energy aspects of nuclear physics including fundamental particle physics, weak interaction theory, relativistic nuclear theory, and an introduction to strong interaction theory.

505. *Seminar*. All semesters; hours to be arranged, one credit; required of Master's degree candidates in physics. STAFF.

This course provides the opportunity for the student to become acquainted with current developments in physics. It is planned to have occasional lectures by invited speakers on current topics.

506. *Solid State*. Second semester; lectures three hours; three credits. Prerequisite: Introduction to Quantum Mechanics. STAFF.

Crystal lattices; energy levels of solid; mechanical, dielectric and magnetic properties of crystals; superconductivity; semiconductors.

507. *Mathematical Physics*. First semester; lectures three hours; three credits. Prerequisite: Permission of the instructor. STAFF.

This course is designed to acquaint the student with some phases of mathematical physics. The emphasis is on applications and techniques (with due regard for fundamentals).

508. *Mathematical Physics*. Second semester; lectures three hours; three credits. Prerequisite: Permission of the instructor. STAFF.

This course is designed to acquaint the student with some phases of mathematical physics. The work is intended to be independent of that in Physics 507 and either course may be taken independently of the other. Topics in these courses may include complex variables, integral transforms, numerical methods and computing machines, group theory, statistical methods, non-linear differential equations, Green's function methods, etc.

509, 509a. *Statistical Physics and Thermodynamics*. Continuous course, lectures three hours; three credits each semester. Prerequisite: Physics 501, and a working acquaintance with undergraduate thermodynamics. Co-requisite: Physics 409. STAFF.

Thermodynamics; fundamentals of statistical physics, introduction to non-equilibrium phenomena and kinetic theory.

511. *Introduction to Astrophysics*. First semester; lectures three hours; three credits. Prerequisite: Physics 407, 409, 501 or consent of the instructor. MR. LAWRENCE.

Brief survey of celestial mechanics. Application of atomic theory to solar and stellar spectra. Luminosities, temperatures, diameters, and masses of stars. Brief introduction to ionospheric physics.

*514. *Theory of Ionized Gases*. Second semester; lectures three hours; three credits. Prerequisites: Permission of the Instructor. Physics 509 is strongly recommended, but not required. MR. CROWNFIELD.

An introduction to the theory of ionized gases and magnetohydrodynamics. Microscopic and macroscopic motions in a gas of charged particles; interaction of a plasma with external fields. Waves in an ionized gas.

530. *Atomic spectroscopy*. First semester; lectures three hours; three credits. Prerequisites: Physics 409, or permission of the instructor. MR. OFELT.

Theory of atomic structure, emission and absorption processes, one electron spectra, complex spectra, atomic interactions, coupling schemes, Zeeman and Stark effects, and a study of hyperfine structure.

530a. *Molecular Spectroscopy*. Second semester; lectures three hours; three credits. Prerequisite: Students are strongly advised to have completed Physics 530 before enrolling in this course. (Offered jointly by the Department of Physics and Chemistry. Same as Chemistry 530A.) MR. OFELT or MR. ZUNG.

A study of the theory of the spectra of diatomic and polyatomic molecules in the microwave, infrared, and visible-ultraviolet regions.

540. *A, B, C, D, E, F. Special Topics*. Both semesters; lectures three hours; three credits each semester. MR. SIEGEL and STAFF.

Special topics in Physics

A. Neutron and nuclear reaction physics

B. Theory of solids

C. Plasma physics

D. Astrophysics

E. High energy physics

F. Elementary particle physics

One or more of these courses will be offered each semester.

550. *Research*. Any semester; hours and credits to be arranged. STAFF.

This course provides the opportunity for the student to investigate a topic for credit which may or may not be later the subject of this thesis. It provides an opportunity for broadening the student's background by allowing him to do some theoretical research while doing experimental work for his thesis and vice versa.

560. *Thesis*. Hours to be arranged. STAFF.

Psychology

PROFESSORS WILLIAMS (*Head of the Department*) and LAMBERT.
ASSOCIATE PROFESSORS HARCUM and JOHNSTON. ASSISTANT
PROFESSORS DERKS, MCKENNA and FRIEDMAN.
INSTRUCTOR DYER. LECTURER HAMMACK.
LABORATORY TECHNICIAN DAW.

REQUIREMENTS FOR CONCENTRATION

Degree of Bachelor of Arts: 30 credits in psychology including 301-302, 331, one senior course (403, 404, 410, 431); two or more seminars, 420. In addition, senior seminar, 420, each of the last two semesters and one hour of Research, 421, in the first semester of the senior year, is required. No more than 8 credits, nor fewer than 3 credits, of introductory courses in psychology may be included in the 30 credits.

Degree of Bachelor of Science: Concentration requirements for the B.S. are those listed above for the A.B. but in addition the student must meet the distribution requirements for the B.S. degree (pages 88-89). The preferred science is Biology.

Normal Program for Concentration: A student normally will take 201 and either 202 or 204 in the sophomore year but he may have elected 202 or 204 as a freshman; in some cases, then, the student may wish to take 310 or 331 in the second semester of the sophomore year. It is expected that every concentrator will take 301-302 and 331 in the junior year. These courses taken together form the base of the concentration. The senior year emphasizes seminars and research. In the first semester of his senior year each student writes an independent research paper; for this, he registers for one hour of Research, 421, which may be based either on bibliographic or experimental research and may, with approval be taken for more than one hour credit.

Students who expect to enter psychology as a profession are advised to continue graduate study toward the M.A. or the Ph.D. degree. Whether or not they concentrate in psychology in college, they will be expected by most graduate schools to have completed the equivalent of 301-302 and 331 as a minimal preparation in

experimental psychology and statistics and many graduate schools will require 403 and 404.

INTRODUCTORY COURSES

Of the three courses, 201, 202, 204, no more than two can be counted toward the degree by any student.

201. *Principles of Psychology*. Both semesters; lectures three hours; three credits. MR. WILLIAMS.

A study of the basic principles of behavior according to the categories of general psychology: motivation, conditioning, learning, maturation, emotion, thinking, perception, intelligence and the organization of personality. A standard text will be read and a few demonstration experiments performed.

202. *Contemporary Psychology*. Both semesters; lectures three hours; three credits. MISS DYER.

An introduction to psychology through the study of recent original literature in various fields. Normally taken after 201 or 204 but may be taken independently and usually not open to upperclassmen except as an elective.

204. *Introduction to Social and Personality Development*. Second semester; lectures three hours; three credits. MR. MCKENNA.

An introduction to psychology through the study of the person and his social environment. Emphasis will be placed on fundamental processes of personal growth and adaptation and their relationships to both general and social psychology.

†211-212. *Sophomore Research Seminar*. Both semesters; hours to be arranged; one credit. Regularly taken with Psychology 201, 202, or 204. Enrollment by invitation only. MISS DYER.

An introduction to independent scholarship for the promising and enthusiastic student beginning in Psychology.

INTERMEDIATE COURSES

Prerequisites: one introductory course required for all but 310 and 331.

301-302. *Experimental Psychology*. Continuous course; lectures three hours; laboratory four hours; four credits. MR. HARCUM, MR. DERKS and MR. FRIEDMAN.

This course presents information obtained by psychological research on the various basic attributes of behavior, with emphasis on the methods by which the facts are obtained.

303. *Industrial Psychology*. First semester; lectures three hours; three credits. MR. WILLIAMS.

Psychology applied to industrial and military organizations. Types and uses of psychological tests in selecting and classifying personnel; methods of efficient work; the design of machines and communication systems for human use; industrial training.

304. *Social Psychology*. Second semester; lectures three hours; three credits. MR. DERKS.

An examination of the effect of a social environment on the perception, motivation, thought, and general behavior of the individual.

305. *Abnormal Psychology*. First semester; lectures three hours; three credits. MR. JOHNSTON.

A survey of behavior pathology emphasizing the neuroses and the functional psychoses and their relationship to current conceptions of normal personality functioning. Clinic demonstrations will be held at Eastern State Hospital.

307. *Developmental Psychology*. First semester; Lectures three hours; three credits. MR. McKENNA.

A study of data and theory concerning the development of the individual from infancy to maturity. Both cognitive and affective personal processes will be considered.

308. *Psychology of Adolescence*. Second semester; lectures three hours; three credits. MR. LAMBERT.

The psychology of personality development from late childhood to maturity.

310. *History of Psychology*. Second semester; lectures three hours; three credits. MR. WILLIAMS.

From Aristotle to 1930 with special emphasis on the 19th and early 20th century. No prerequisite.

*312. *Educational Psychology*. Both semesters; lectures three hours; three credits. STAFF.

A student may sign up once for Educational Psychology credit for Psychology 307, 331, or an advanced seminar in Human Learning, Language and Thought, or Psychological Tests.

331. *Measurement, Testing and Statistics*. Both semesters; lectures two hours, laboratory three hours; three credits. MR. FRIEDMAN.

An introduction to statistics, both descriptive and inferential, including non-parametric tests of significance and simple correlation. Basic principles of psychophysics and psychometric functions and their relation to theory of test construction and item analysis.

ADVANCED COURSES

Prerequisites: Eight hours of intermediate level courses or other evidence of maturity as a student of psychology or of cognate subjects. Courses can be taken for graduate credit. Senior concentrators in psychology are required to take at least one course, one seminar, each semester, and one hour of research.

403. *Systematic Psychology*. First semester; lectures three hours; three credits. MR. DERKS.

A survey of contemporary thought in Psychology with emphasis on its empirical foundations and future possibilities.

404. *Physiological Psychology*. First semester; lectures three hours; three credits. MR. HARCUM.

This is a general information course designed to account for the various behavioral phenomena in terms of known and inferred physiological mechanisms.

410. *Personality Theory*. Second semester; lectures three hours; three credits. MR. MCKENNA.

A survey of major historical and contemporary theories will be supplemented by intensive consideration of one or more current approaches to the understanding of personality. Reference will be made to both experimental and life history data.

431. *Quantitative Methods*. Second semester; lectures two hours; laboratory three hours; three credits. MR. FRIEDMAN.

An advanced course in statistics and experimental design.

SEMINARS AND INDEPENDENT STUDY

420. *Topical Seminars*. Both semesters; hours to be arranged; two credits. STAFF.

Each semester two or more seminars will be offered covering a variety of topics: perception, animal learning, human learning, language and thought, psychological testing, and great psychologists. Senior concentrators are required to take at least one seminar each semester and are encouraged to take more.

421. *Research Problems*. Both semesters; hours to be arranged; credit according to work undertaken. STAFF.

Independent study which may consist of bibliographic or experimental research. Senior concentrators are required to take this course in the fall semester for at least one credit. The project may be related to the topic being covered in 420.

†495-496. *Honors*. Continuous course; hours to be arranged; six credits. Prerequisite: Grade average of B during first two years or during junior year and permission of department. STAFF.

A student Admitted to Honors Study is eligible for an award of Honors in Psychology on graduation. He may be enrolled during both semesters of the senior year for three credits each semester or in the second semester only for six credits.

Honors is independent study comprising (a) supervised reading in the field of the student's major interest, primarily in the original literature; (b) the preparation and presentation by May 1 of an Honors Essay based on the student's own research; and (c) satisfactory completion of a comprehensive examination in the field of the student's major interest.

GRADUATE PROGRAM

A student in his first year of graduate study will enroll in 501-502, and in any advanced senior course (403, 404, 410, 431)

which he may not have had. The comprehensive examination in general psychology, 501-502, covers all phases of psychology and serves as an assessment of the student's total preparation for advanced study and advancement to degree candidacy. The first year student may also be permitted to enroll in 521, Research, for one credit or more, so that he may begin to develop his own independent research interests. He must also satisfy the department that he possesses a reading knowledge of a foreign language before he can be admitted to candidacy for the M.A. degree.

The second year student will enroll in 503-504, 521, and in 560, and he may enroll in 510-513. By the beginning of the second year, he must have satisfied the language requirement and be ready to defend a proposal for thesis.

Students are encouraged to use the first year as a fifth-year preparation for continued study toward the Ph.D. whether or not they stay for a second graduate year at the College. Continuance at the College will ordinarily result in the M.A. degree at the end of the second year but the degree itself is not stressed as much as preparation for more advanced study.

†501, 502. *Proseminar in General Psychology*. Continuous course, four credits each semester. Prerequisite: first-year graduate standing. STAFF.

An intensive reading course, based on a prepared syllabus, including handbooks and advanced texts as well as selected original literature. Topics are the functional divisions of behavior; conditioning, learning, remembering, problem solving, perceiving, motivation and emotion. Seminar discussions emphasize methods and history as well as current knowledge. Supervised research is required. A comprehensive examination is required; it serves as a qualifying examination for further graduate study.

†503, 504. *Seminars in Psychology*. Continuous course; three credits each semester. Prerequisite: second year graduate standing. STAFF.

Selected topics in psychology with emphasis on current literature and original sources.

†510-513. *Practicum in Advanced Abnormal Psychology*. Credit to be arranged. Prerequisite: second year standing. STAFF.

This is a series of courses and examinations on a common core of practical experience in the graduate internship program at Eastern State Hospital. 510, Introduction to Testing; 511, Introduction to Projective Techniques; 512, Rorschach Interpretation; and 513, Problems in Diagnosis and Testing. Credit is usually two or three hours per course.

†521. *Research Problems in Psychology*. Credit to be arranged. Prerequisite: second year standing or approval of department chairman. STAFF.

Course may be repeated. Research may be carried out either at the College or the Eastern State Hospital. It may consist of experiments, research papers, or reviews of original literature.

†560. *Thesis*. Prerequisites: 501-502; second year standing; and candidacy for the M.A. degree. The M.A. candidate must defend a formal proposal for his thesis; this defense will be scheduled no later than the first week of the second year of study.

Secretarial Science

ASSOCIATE PROFESSOR LOTT.

The following courses in Shorthand and Typewriting are open to students as elective courses, regardless of their field of concentration. It is strongly recommended that students who plan to work as secretaries begin this course in their junior year or earlier. College credit is given for the courses as indicated. These courses may be taken as part of a student's regular schedule.

Personal Typewriting is open to any student and is taken without credit.

SHORTHAND AND TYPEWRITING

301, 302. *Fundamentals of Shorthand and Typewriting.* Continuous course; Shorthand three hours, Typewriting three hours;¹ three credits each semester. Miss LOTT.

Fundamentals of Gregg Shorthand Simplified and the touch system of typewriting. Taking shorthand from dictation and transcribing notes stressed in second semester.

401. *Advanced Shorthand and Secretarial Practices.* First semester. Lectures three hours, typewriting three hours; three credits. Prerequisites: Sec. Sci. 301, 302, or consent of instructor. Miss LOTT.

Advanced shorthand and typing with emphasis on developing speed and accuracy in taking dictation and transcribing notes; office machines.

402. *Secretarial Practice.* Second semester. Lectures three hours, laboratory three hours; three credits. Prerequisite: Consent of instructor. Miss LOTT.

Training for a professional secretarial career. Correct application of basic skills; use of reference materials; study of duties

¹The typewriting applies to students who have not had typewriting previously.

and personal requirements for responsible secretaries; use of transcription machines. Shorthand is not a prerequisite.

PERSONAL TYPEWRITING

101. *Personal Typewriting*. Both semesters; two hours a week; no credit. Miss LOTT.

This course is designed to give training in the fundamentals of touch typewriting with special emphasis on typing term papers, outlines and business letters.

Sociology and Anthropology

PROFESSOR KERNODLE (*Head of the Department*). ASSOCIATE
PROFESSORS ALTSHULER, GRAY and RHYNE. ASSISTANT
PROFESSORS SHUSTER and SORDINAS. INSTRUCTOR
SALSBERG.

REQUIREMENTS FOR CONCENTRATION

Concentration in Sociology and Anthropology requires a minimum of thirty-three semester credits in Sociology and Anthropology and must include the following courses: 201, 202, 313, 331, 411, 412, or 495, 496 and Anthropology 203.

DESCRIPTION OF COURSES

SOCIOLOGY

201, 202.¹ *General Sociology*. Continuous course; lectures three hours; three credits each semester. STAFF.

An introduction to the study of human society. The basic concepts of society, culture, and personality and their relationships to one another are developed in the first semester. In the second semester these concepts are used to examine and analyze the major social institutions in human society. Political, economic, religious, and familial institutions are studied as well as additional concepts of social class, caste, and social change.

301. *Social Control*. First semester; lectures three hours; three credits. Soc. 201, 202 or consent of instructor. MR. GRAY.

An analysis of universal techniques of social control used by both small social groups and society as a whole. Considers the question of conformity to social norms and values in the interest of societal stability and continuity as well as that of group and/or individual deviance.

302. *Criminology and Penology*. Second semester; lectures three hours; three credits. MR. SALSBERG.

¹Freshmen may elect this course provided they have two units of secondary school preparation in social science courses, including a minimum of one unit of World History and/or European History, or have satisfactory achievement on the Advanced Placement Tests, or with the approval of the head of the department.

A study of the problems of crime, criminals, and criminal justice. Consideration of theories of causation and punishment. The function, success and failure of our prison system, as well as programs of prevention, considered.

303. *Social Problems*. Lectures three hours; three credits; offered each semester. MR. SALSBERG.

An objective study of the basic areas in human society which involve value conflict, social disorganization, and personal variation or deviancy. Attention is given to specific problems arising out of our type of social structure and which are not covered by other special courses. Focus on mental illness, religious conflicts in modern society, drug and alcohol addiction, and other areas of social concern.

304. *Social Structure*. First semester; lectures three hours; three credits. MR. RHYNE.

A study of the principal structural units of society. Central focus is on the concepts of hierarchy, stratification, class and caste, and the economic, prestige and power orders. Comparative perspectives, historical and cross-cultural, are developed. Close examination of the American class system.

306. *Racial and Cultural Minorities*. Second semester; lectures three hours; three credits. MR. SHUSTER.

Distinctions of race, religion, and national origin in contemporary society. The "racial" or "minority group" frame-of-reference in relation to economic and social class organization, political alignments, regional traditions, and psychological tensions. Trends of change. Included in a comparative study of minority problems and race issues in the modern world.

308. *Marriage and the Family*. Second semester; lectures three hours; three credits. MR. KERNODLE and MR. SHUSTER.

Analysis of the social relationships between people in courtship, marriage and family situations. Interrelations of family institutions and other parts of social structure. Intensive study of American family structure and relevant examples drawn from other cultures, with the aim of developing mature understanding of, and perspective on, the family.

309. *Population Problems*. First semester; lectures three hours; three credits. MR. SHUSTER.

A consideration of the manner in which populations grow and decline and the effects of such change on society. Emphasis is on theories of population growth, distribution, births, deaths, internal and international migration, bio-social and sociological composition. Included are discussions of the sources of data and techniques and methods of analysis, as well as contemporary population problems.

313. *Sociological Theory*. First semester; lectures three hours; three credits. MR. KERNODLE.

This course aims to present the major sociological theories and hypotheses which are current with some historical perspective which bears directly upon recent trends in social theory. The sources of social concepts in tradition and changing experience; their formal application in framing and executing scientific research are studied. The taken-for-granted versus rational analysis, and values in relation to objectivity constitute the approach. Emphasis on current thought. This course is designed for both sociology majors and other students interested in contemporary social thought in this orientation.

331. *Statistical Methods in Sociology*. Second semester; lectures three hours; laboratory two hours; three credits. MR. SHUSTER.

The applications and limitations of statistics are presented as means of providing tools whereby statistical methods may be recognized, interpreted, and applied in sociological research. Included are considerations of averages, measures of dispersion and variance, simple linear correlation and sampling theory. Emphasis on the logic of procedures, not on mathematical derivations.

342. *The Structure of Power*. Second semester in alternate years; lectures three hours; three credits. Prerequisites: Sociology 201, 202 or the consent of the instructor. MR. RHYNE.

The organization of power and authority within the social order. Comparison drawn between different power structures in terms of differences in the social order. An investigation of the

writings of some of the major theorists (some combination from Marx, Mosca, Lenin, Pareto, Michels, or Sorel and contemporary authors), on social and political power is undertaken.

351. *Continuity and Change in the Near East*. First semester; lectures three hours; three credits. MR. SHUSTER.

The social structure of the modern Arab World will be analyzed both historically and functionally. The major focus will be on the dominant elements of the contemporary scene: Islam, Arabism, and the clash between modernization and traditionalism. Specific attention given to the dynamics of social change: education, ideologies and value systems; new elites and social planning; economic development and cultural evolution; and the development of internal and external solidarity.

403. *The Human Community*. First semester; lectures three hours; three credits. STAFF.

The study of rural and urban communities with special reference to the complexities of their structure and patterns of change. Emphasis is placed on similarities and general principles of communities and social groups, the influence of size on communities, spatial organization, and special problems of urban life.

405. *Social Movements*. Second semester; lectures three hours; three credits. MR. RHYNE.

A study of the social and cultural characteristics of contemporary social movements such as liberalism, democracy, socialism, communism, fascism. A critical evaluation is made of the philosophies, social foundations, and organizations of important movements. Emphasis on the interplay of these three factors.

407. *Industrial Society*. First semester; lectures three hours; three credits. Prerequisites: Soc. 201, 202, or consent of the instructor. MR. GRAY.

A sociological analysis of modern industrialized society. The transition from agrarian to industrialized society examined, including its specific effects on the American social character and individual personality.

411, 412. *Social Research*. Continuous courses; lectures

three hours; three credits each semester. Prerequisites: Soc. 201, 202, 331. STAFF.

415. *Special Problems in Sociology*. For sociology majors only and upon consent of the head of the department.

ANTHROPOLOGY

203. *General Anthropology*. First semester; lectures three hours; three credits. MR. ALTSHULER and MR. SORDINAS.

An introduction to the field of anthropology. The first half of the semester will be devoted to a discussion of recent theories, methods, and findings in the areas of cultural and human evolution. The second half of the semester will focus upon the major concepts within social anthropology utilizing data from contemporary primitive societies.

204. *Cultural Anthropology*. Second semester; lectures three hours; three credits. MR. ALTSHULER and MR. SORDINAS.

The application of the concept of culture to the study of contemporary primitive societies. Institutions in our own society will be analyzed in the light of cross-cultural data. Special attention will be given to the problem of comparative value systems.

306. *Racial and Cultural Minorities*. Second semester; lectures three hours; three credits. MR. SHUSTER.

Distinctions of race, religion, and national origin in contemporary society. The "racial" or "minority group" frame-of-reference in relation to economic and social class organization, political alignments, regional traditions, and psychological tensions. Trends of change. Included is a comparative study of minority problems and race issues in the modern world.

353. *Ethnology of North American Indians*. Semester to be announced; lectures three hours; three credits. MR. ALTSHULER.

A descriptive survey of the major culture areas of native North America. Representative groups of Indians in each area will be discussed in terms of ecology, racial and linguistic affiliation, social organization, and value orientations. The diffusion of cultural traits from Meso-America, Oceania, and Asia as well as diffusion within North America will be analyzed.

355. *Ethnology of South America*. Semester to be announced; lectures three hours; three credits. MR. SORDINAS.

A descriptive survey of the major culture areas of South America, analyzed in terms of such variables as race, language, ecology, dominant values, and culture contacts.

361. *Ethnology of Africa*. Semester to be announced; lectures three hours; three credits. MR. ALTSHULER.

A descriptive survey of the major culture areas of Africa, analyzed in terms of such variables as race, language, ecology, dominant values, and culture contacts.

370. *The Archaeology of Europe*. Second semester; lectures three hours; three credits. MR. SORDINAS.

This course will consist of a survey of European Prehistory in the Palaeolithic, Neolithic, Bronze, and Early Iron Age. Material culture will be described in the light of modern archaeological research. Problems will be discussed in relation to environmental change and human adaptation, the movement of peoples in the European area, and the establishment of agriculture and metallurgy. Those elements upon which European Civilization was formed will be emphasized.

372. *The Virginia Indians*. Second semester; lectures three hours; three credits. MR. McCARY.

A study of the origins and culture growths of the Virginia Indians from 15,000 B.C. to A.D. 1960. Careful attention will be given to the classification of artifacts associated with the various culture periods. Several field trips or digs will be arranged.

428. *Personality in Culture*. Second semester; lectures three hours; three credits. MR. KERNODLE and MR. ALTSHULER.

An intensive study of the relationships between the individual and society. Consequences of variability in socialization, learning, perception. Culture and mental disorders in divergent cultural systems are presented.

430. *Cultural Patterns and Technological Change*. Semester to be announced; lectures three hours, three credits. MR. ALTSHULER.

An examination of the part played by culture in facilitating or impending technological development in small societies. The approach will be to analyze the interdependence of various factors, such as cultural values, family structure, socialization process, and sustenance pattern, as these bear upon the central theme of technological development. Case studies by anthropologists from a variety of cultures will be presented.

432. *Anthropological Theory*. Semester to be announced; lectures three hours; three credits. MR. ALTSHULER.

An analytical review of the major anthropological theories of the last one hundred years.

HONORS STUDY

493-496. *Honors*. Continuous course; hours to be arranged; three credits each semester. STAFF.

Students admitted to Honors Study in Sociology and Anthropology will be enrolled in this course during both semesters of their senior year. The course comprises (a) an exploration of the area of the logic of research along with selected readings in the student's special area of interest; (b) the preparation and presentation by May 1 of an Honors Essay or Project in his special area of interest; and (c) satisfactory performance in a comprehensive oral examination in the field of the student's major interest.

Theatre and Speech

ASSOCIATE PROFESSORS SCAMMON (*Acting Head of the Department*)
and HAAK. ASSISTANT PROFESSORS HASTINGS, McCONKEY,
and STAROBA. INSTRUCTORS KIRK and SAWYER.
LECTURER SHERMAN.

The Department of Theatre and Speech offers a concentration in Theatre.

REQUIREMENTS FOR CONCENTRATION IN THEATRE

A student must take Theatre 204, 315, 316, 403, 404 and must complete fifteen additional hours in departmental offerings in Theatre. The student may count towards his concentration nine hours of work in related fields subject to the approval of his adviser.

THEATRE

204. *Introduction to Theatre Arts.* Both semesters; lectures three hours; three credits each semester. STAFF.

Survey of the development of the theatre from earliest times to the present. Emphasis on the major component parts found in the theatre—playwriting, directing, stagecraft, scene design, costumes, lighting and acting. Lectures, reading and discussion.

301, 302. *Acting.* Continuous course; lectures three hours; three credits each semester. MR. SCAMMON.

Critical analysis and appreciation of acting developed by lectures, reading and discussion, and presentation of individual and group scenes.

305, 306. *Stagecraft.* Continuous course; workshop six hours; three credits each semester. MR. HAAK.

Study and practice in technical problems: working drawings, construction, scene painting, rigging, and handling of scenery, properties, lighting, backstage organization, and sound effects. Students in this course act as technicians for William and Mary Theatre productions.

309, 310. *Design for the Theatre*. Continuous course; studio six hours; three credits each semester. MR. HASTINGS.

Basic analysis of the visual elements of theatrical production. Lectures and demonstrations on significant historical periods. Emphasis is placed on watercolor sketching, scene painting, drafting, costume design and construction, and lighting. Students act as technicians for William and Mary Theatre productions.

312. *History and Appreciation of the Motion Picture*. Second semester; lectures two hours; laboratory two hours; two credits. MR. HAAK.

Survey of the historical development of the film in Europe and America, and of organization, management, and mechanical process in production. In laboratory, historic and current films illustrating lecture material are shown.

315. *History of the Classical and Medieval Theatre*. First semester; lecture three hours; three credits. Required of all concentrators in Theatre. MR. SCAMMON.

Study of the forms of the drama, development of the theatre and techniques of the stage of the Greek, Roman and Medieval Ages.

316. *History of the Renaissance, Eighteenth and Nineteenth Century Theatre*. Second semester; lectures three hours; three credits. Required of all concentrators in Theatre. MR. SCAMMON.

Study of the forms of the drama, development of the theatre and techniques of the stage in the Renaissance, Eighteenth and Nineteenth centuries.

*317, 318. *Playwriting*. Continuous course; lectures three hours; three credits each semester. MR. STAROBA.

Study of dramatic structure and practice in writing one-act plays for the stage. Composition is accompanied by wide reading and analysis of dramatic literature. Worthy scripts receive experimental production.

*403, 404. *Seminar in Contemporary Drama*. Continuous course; three hours; three credits each semester. MR. STAROBA.

Analysis of late nineteenth and twentieth century drama with special emphasis on forms and styles. Lectures, discussion and research. Required of all concentrators in Theatre, open to others by consent of the instructor.

407, 408. *Direction*. Continuous course; lectures three hours; three credits each semester. MR. SCAMMON.

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

*411. *Problems in Theatre*. Any semester; hours to be arranged; credit according to work done. STAFF.

Directed study on a special problem for the advanced student, arranged on an individual basis.

SPEECH

101. *Public Speaking*. Both semesters; lectures three hours; three credits. MR. McCONKEY, MR. SAWYER, MR. KIRK.

Understanding and application of the principles of public speaking. Analysis of speeches based on organization, content, and delivery.

102. *Voice and Diction*. Both semesters; lectures three hours; three credits. MRS. SHERMAN.

To develop a pleasing and effective voice. Training in articulation, enunciation, pronunciation, quality, time and pitch. Phonetics.

103. *Oral Interpretation*. First semester; lectures three hours; three credits. MR. STAROBA.

To recreate, by reading aloud, the original intention of the author.

201. *Foundations of Broadcasting*. First semester; lectures three hours; three credits. MR. SAWYER.

An examination and evaluation of radio and television as factors in society. History and organization of the broadcasting industry, government regulation, and audience measurement, with consideration of the role of radio and television in education.

202. *Beginning Broadcast Production*. Second semester; lectures two hours; laboratory two hours; three credits. MR. SAWYER.

Analysis of program types, problems of preparation and presentation with laboratory work in the campus radio and television studios.

204. *Advanced Oral Interpretation*. Second semester; lectures three hours; three credits. Prerequisites: Speech 103 or with the consent of the instructor. MR. STAROBA.

A continuation of Speech 103 with emphasis on advanced and difficult forms of literature.

207. *Speech Composition and Briefing*. First semester; lectures three hours; three credits. MR. McCONKEY.

Study of the special techniques of speech construction as applied to advanced forms of public address, emphasizing structure, arrangement, and style. Special attention given to the application of the principles to persuasion and to argumentation. (Alternates with Speech 209. Not offered in 1963-1964.)

209. *Argumentation and Debate*. First semester; lectures three hours; three credits. MR. McCONKEY.

Training in the techniques and practices of argumentative speaking, study and analysis of debate propositions, preparation of the brief, research and selection of evidence, and practice in rebuttal and refutation. Lectures and class debating. (Alternates with Speech 207.)

210. *Principles of Group Discussion*. Second semester; lectures three hours; three credits. MR. McCONKEY.

Study of logical and psychological foundations of discussion as a method of dealing with public questions, considering problems of adjustment, communication and collaborative action in small face-to-face groups. Emphasis on principles, types and methods of discussion. Lectures and practice participation.

401. *Studio Operations: Directing for Television*. Continuous course; lectures two hours; laboratory two hours; three credits. Prerequisites: Speech 201 or 202 or consent of the instructor. MR. SAWYER.

A study of theory and methods of television production and direction. Detailed examination of cameras, lights, audio, graphics, design and responsibilities of studio and control room personnel.

402. *Television Writing and Production*. Continuous course; lectures two hours; laboratory two hours; three credits. Prerequisites: Speech 411, or 201 and 202, or consent of the instructor. MR. SAWYER.

A study of the theory and methods of writing, producing and directing for television. Practice is provided in writing various kinds of programs with emphasis on limitations and responsibilities of the medium, and in advanced control room techniques with opportunities to supervise all aspects of television production.

PRE-PROFESSIONAL PROGRAMS

Dentistry, Engineering, Forestry, Medical Technology, Medicine, Public Health Service, and Veterinary Medicine

Pre-professional programs for Dentistry, Engineering, Forestry, Medical Technology, Medicine, Public Health Service, and Veterinary Medicine are offered at William and Mary within a liberal arts framework. Most of these programs lead to a liberal arts degree at the College; some provide entry to a professional school after two or three years, and for certain of these programs there are provisions for an eventual degree from William and Mary.

Pre-Medical Course

For the country at large most medical school graduates now earn their baccalaureate degrees; some of these students spend only three years in the liberal arts college and receive the college degree after completing the first year in medical school or, as in the case of William and Mary, upon the completion of the medical course. Certain schools now have combined liberal arts-medical programs wherein the students spend only two years in the liberal arts college.

The pre-medical advisers at William and Mary encourage students to complete four years before going to medical school, for a liberal arts program reaches its full meaning in the final years; to terminate such a program after three years is to lose its unique significance. Future success in medical school and in medical practice depends in great measure on the competence and attitudes developed during the liberal arts program.

Several pre-medical programs are given below for the guidance of the student. Each program satisfies the basic admission requirements of American medical schools. The individual student may, in consultation with a pre-medical adviser, wish to work out

his own program, and he may concentrate in any field that he desires provided he includes in his curriculum the courses requisite for admission to most medical schools. Degree requirements at William and Mary must, of course, be likewise satisfied.

The three-year student who follows the program exactly as outlined on the following pages and who has a minimum quality point average of 1 is eligible upon graduation from an accredited medical school for a degree of Bachelor of Science from William and Mary.

PREPARATION FOR MEDICINE, DENTISTRY, AND
PUBLIC HEALTH SERVICE

Program I¹

<i>First Year</i>	<i>1st Sem.</i>	<i>2nd Sem.</i>	<i>Second Year</i>	<i>1st Sem.</i>	<i>2nd Sem.</i>
Eng. 101, 102.....	3	3	Eng. 201, 202.....	3	3
Chem. 101, 102.....	5	5	German or French.....	3	3
Biol. 101, 102.....	5	5	Physics 101, 102.....	5	5
Math. 103, 201 or 201-202.....	3	3	Chem. 301, 302.....	4	4
Phys. Ed. 101, 102.....	1	1	Phys. Ed. 201, 202.....	1	1
	—	—		—	—
Total Semester Credits..	17	17	Total Semester Credits..	16	16

<i>Third Year</i>			<i>Fourth Year</i>		
Chem. 201, 202.....	4	4	Hist. 101, 102 or	}	3 3
German or French.....	3	3	Econ. 201, 202 or		
Biol. 201, 202.....	4	4	Govt. 201, 202 or		
Hist. 101, 102 or	}	3 3	Soc. 201, 202	}	2 2
Econ. 201, 202 or					
Govt. 201, 202 or					
Soc. 201, 202					
Elective.....	3	3	Advanced Chem.....	2	2
	—	—	Electives.....	7	7
Total Semester Credits..	17	17	Total Semester Credits..	12	12

Concentration: Chemistry. Degree: B.S.

PREPARATION FOR MEDICINE, DENTISTRY, AND
PUBLIC HEALTH SERVICE—Continued

Program II¹

<i>First Year</i>	<i>1st Sem.</i>	<i>2nd Sem.</i>	<i>Second Year</i>	<i>1st Sem.</i>	<i>2nd Sem.</i>
Eng. 101, 102.....	3	3	Eng. 201, 202.....	3	3
Math. 103, 201 or 201, 202.....	3	3	Chem. 301, 302.....	4	4
Biol. 101, 102.....	5	5	Biol. 201, 202.....	4	4
Chem. 101, 102.....	5	5	German or French.....	3	3
Phys. Ed. 101, 102.....	1	1	Phys. Ed. 201, 202.....	1	1
	—	—		—	—
Total Semester Credits..	17	17	Total Semester Credits..	15	15

<i>Third Year</i>			<i>Fourth Year</i>						
German or French.....	3	3	Hist. 101, 102 or Govt. 201, 202 or Econ. 201, 202 or Soc. 201, 202	}	3 3				
Hist. 101, 102 or Econ. 201, 202 or Govt. 201, 202 or Soc. 201, 202	}	3 3	Advanced Biol.....			4	4		
Physics 101, 102.....			5			5	Electives.....	8	8
Advanced Biol.....			4			—		—	—
Electives.....			—	4		—	—		
Total Semester Credits..	15	15	Total Semester Credits..	15	15				

Program III²

<i>First Year</i>			<i>Second Year</i>						
Eng. 101, 102.....	3	3	Eng. 201, 202.....	3	3				
German or French.....	3	3	German or French.....	3	3				
Biol. 101, 102.....	5	5	Hist. 101, 102 or Econ. 201, 202 or Govt. 201, 202 or Soc. 201, 202	}	3 3				
Hist. 101, 102 or Econ. 201, 202 or Govt. 201, 202 or Soc. 201, 202	}	3 3	Chem. 101, 102.....			5	5		
Phys. Ed. 101, 102.....			1			1	Math. 103, 201 or 201, 202.....	3	3
			—			—	Phys. Ed. 201, 202.....	1	1
Total Semester Credits..			15	15	Total Semester Credits..	18	18		

¹Concentration: Biology. Degree: B.S.

²Concentration: Topical Major in Pre-Medicine. Degree: B.S. No more than five students may be admitted each year to this topical major. A quality point average of at least 2 is a necessary condition for admission.

PREPARATION FOR MEDICINE, DENTISTRY, AND
PUBLIC HEALTH SERVICE—*Continued*

Program III¹—*Continued*

<i>Third Year</i>	<i>1st</i>	<i>2nd</i>	<i>Fourth Year</i>	<i>1st</i>	<i>2nd</i>
	<i>Sem.</i>	<i>Sem.</i>		<i>Sem.</i>	<i>Sem.</i>
Chem. 201, 202.....	4	4	Biol. 201, 202.....	4	4
Physics 101, 102.....	5	5	Psych. 201.....	4	—
Phil. 201, 202.....	3	3	Chem. 301, 302.....	4	4
Electives.....	4	4	Topical Major Seminar....	—	3
	—	—	Electives.....	4	4
Total Semester Credits..	16	16	Total Semester Credits..	16	15

Program IV.² Four- or Three-Year Program

The four-year program here presented meets the requirements of all medical schools and the preferences of many of them. Certain medical schools will accept a student who has completed the first three years of this program.

<i>First Year</i>	<i>1st</i>	<i>2nd</i>	<i>Second Year</i>	<i>1st</i>	<i>2nd</i>
	<i>Sem.</i>	<i>Sem.</i>		<i>Sem.</i>	<i>Sem.</i>
Eng. 101, 102.....	3	3	Eng. 201, 202.....	3	3
Chem. 101, 102.....	5	5	Chem. 201, 202.....	4	4
Biol. 101, 102.....	5	5	Physics 101, 102.....	5	5
Math. 103, 201 or			German or French.....	3	3
201, 202.....	3	3	Phys. Ed. 201, 202.....	1	1
Phys. Ed. 101, 102.....	1	1		—	—
Total Semester Credits..	17	17	Total Semester Credits..	16	16
<i>Third Year</i>			<i>Fourth Year</i>		
Hist. 101, 102 or	}	3	Hist. 101, 102 or	}	3
Econ. 201, 202 or			Econ. 201, 202 or		
Govt. 201, 202 or			Govt. 201, 202 or		
Soc. 201, 202			Soc. 201, 202		
Chem. 301, 302.....	4	4	Chem. 401, 402.....	4	4
Biol. ³ 201, 202.....	4	4	Advanced Biol. or		
German or French.....	3	3	Physics.....	4	4
Electives ⁴	3	3		—	—
Total Semester Credits..	17	17	Total Semester Credits..	11	11

¹Concentration: Topical Major in Pre-Medicine. Degree: B.S. No more than five students may be admitted each year to this topical major. A quality point average of at least 2 is a necessary condition for admission.

²Concentration: Chemistry. Degree: B.S.

³Public Health students should substitute Microbiology (Biol. 301, 302).

⁴Three-year students must elect a second Social Science. Four-year students who complete the Math. 103, 201 sequence should elect Math. 202.

Preparation for Engineering

Students may prepare in this College for entrance to the Junior class of any standard engineering school. In making this preparation students will find it necessary to make an early selection of the branch of engineering and the engineering school which they wish to enter in order that their courses may be chosen in accordance with the requirements of their engineering school. It is strongly urged that students seek advice from the Committee on Pre-Engineering Students in adapting their courses to fit the particular branch of engineering they propose to follow.

The course outlined below will be found to meet the general requirements for all branches of engineering.

	<i>Semester Credits</i>
English	6
Mathematics	15 (or 12)
Engineering Drawing and Descriptive Geometry	6
Physics	10
Chemistry	10

For special branches of engineering the following additional courses are recommended: two years of Physics for Nuclear, Electrical and Mechanical Engineering; an additional year of Chemistry for Chemical, Mining, and Sanitary Engineering; a year of Biology for Sanitary Engineering.

The course for engineering students may be fitted into the regular program leading to a B.S. degree and this procedure will afford the engineering student a broad training for this professional work. The completion of the program ordinarily requires four years, but engineering students who complete three years in residence and fulfill degree requirements, except the completion of a field of concentration, with a minimum quality point average of 1.2, will, upon application, be granted the B.S. degree of this College on graduation from an approved engineering school.

PROGRAM IN COOPERATION WITH LEADING
ENGINEERING COLLEGES

The College has combined plan arrangements with the School of Engineering, Columbia University, the School of Engineering Science, The Johns Hopkins University, and the School of Engineering, Rensselaer Polytechnic Institute. Under these arrangements, and by properly planning his studies to include the basic sciences and humanities, a student of high standing may pursue a combined five-year program in which the first three years are spent at the College and the last two at the institution of his choice, leading to the Bachelor's degree from each institution. Thus one year is saved, and the degrees of both institutions and the experience of residence in both are secured. Students desiring to major in Physics should enroll in the Pre-Engineering Program for the freshman year.

The following is the program of courses to be taken at the College of William and Mary.

FIRST YEAR

	<i>1st</i>	<i>2nd</i>
	<i>Sem.</i>	<i>Sem.</i>
Grammar, Composition and Literature (Eng. 101-2)	3	3
Freshman Mathematics (Math. 103-4 or Math. 201-2)	3	3
Elementary General Chemistry (Chem. 101-2) ¹	5	5
General Physics (Phys. 101-2)	5	5
Physical Education (Required Phys. Ed.)	1	1
	—	—
Total Semester Credits	17	17

SECOND YEAR

English Literature (Eng. 201-2)	3	3
Calculus (Math. 201-2 or Math. 203-302)	3	3
Foreign Language	3	3
European History (Hist. 101-2), Government (Govt. 201-2) or Sociology (Soc. 201-2)	3	3
Modern Physics (Phys. 203)	4	—
Geometrical and Physical Optics (Phys. 207)	—	4
Physical Education (Required Phys. Ed.)	1	1
	—	—
Total Semester Credits	17	17

¹Physics majors may postpone chemistry until the sophomore year.

THIRD YEAR

	<i>1st</i>	<i>2nd</i>
	<i>Sem.</i>	<i>Sem.</i>
Foreign Language.....	3	3
Mathematics 203 or 302.....	3	—
Mathematical Physics 300 or 401 or Mathematics 302.....	—	3
Engineering Drawing and Descriptive Geometry (Ind. Arts 201-2)...	3	3
Electricity and Magnetism (Phys. 303).....	4	—
Alternating Current Circuits (Phys. 304).....	—	4
Engineering Mechanics ¹ (Phys. 307).....	—	3
or Analytical Chemistry (Chem. 201-2).....	4	4
Principles of economics (Econ. 201-2).....	3	3
Mechanics 208.....	3	—
	—	—
Total Semester Credits.....	19	19
	or 20	or 20

Students preparing for special programs not mentioned above should consult with the Chairman of the Committee on Pre-Engineering Students.

¹Students preparing for Chemical Engineering or Metallurgy should elect Analytical Chemistry and omit Engineering Mechanics. For Civil, Mechanical, Nuclear and Electrical Engineering programs, Engineering Mechanics should be elected and Analytical Chemistry omitted. Those who elect Analytical Chemistry may find it desirable to include it in the second year program, postponing European History to the third year.

Preparation for Teaching the Natural Sciences and Mathematics

This interdepartmental concentration (Topical Major in Science), which leads to the Bachelor of Science degree enables a student in a four-year course of study to prepare for certification for teaching on the secondary level in general science and in two of the fields in the area of the natural sciences and mathematics.

Requirements for Concentration

- (a) A one-year course each in Biology, Chemistry, Mathematics and Physics for a total of 36 semester hours.
- (b) An additional 8 semester hours in each of two of the three sciences in (a) above, or an additional 8 semester hours in one science and an additional 12 semester hours in mathematics. (Counting freshman level courses, the student is thus required to complete either 18 hours in mathematics and 18 hours in one natural science or 18 hours in each of two natural sciences. The two departments selected by the student in which to meet this requirement shall together constitute his Field of Concentration.)
- (c) A total of 36 quality points in the student's Field of Concentration.

Typical Program of Courses

<i>First Year</i>		<i>Second Year</i>	
Eng. 101, 102 or 103, 104.....	6	Eng. 201, 202.....	6
1st Science 100-level.....	10	3rd Science 100-level.....	10
2nd Science 100-level ¹	10	Econ. 201, 202, Govt. 201, 202, Hist. 101, 102, or Soc. 201, 202	6
Mathematics.....	6	Foreign Language.....	6
Phys. Ed.....	2	Electives ²	6
		Phys. Ed.....	2
Total Semester Credits....	34	Total Semester Credits....	36

¹A student may postpone one of the freshman level science courses to the junior or senior year, substituting a distribution course for the second science in the freshman year.

²A student may take the second natural science or mathematics in his sophomore year and postpone the electives to his junior or senior year.

Third Year

Econ. 201, 202, Govt. 201, 202, Hist. 101, 102, or Soc. 201, 202	6
Foreign Language.....	6
Natural Science and/..... or Mathematics.....	8 6
Electives ¹	6-14

Total Semester Credits.... 32

Fourth Year

Natural Science and/.....	8
or Mathematics.....	6
Electives.....	16-24

Total Semester Credits.... 30

¹Students desiring to qualify for certification in Virginia or in other states should take as electives, beginning in the junior year, the required professional courses, including student teaching.

Preparation for Forestry

Students may prepare at William and Mary for entrance into forestry schools at other institutions. Here they obtain a sound education in the humanities and other liberal arts in addition to the sciences basic to forestry.

The College offers a special program in cooperation with the School of Forestry of Duke University. Upon completion of a five-year coordinated course of study the student will have earned the Bachelor of Science degree from William and Mary and the professional degree of Master of Forestry from Duke University. The student devotes the last two years of his program to the professional forestry curriculum of his choice at Duke, where forestry courses are open only to seniors and to graduate students.

Candidates for the forestry program should indicate to the Dean of Admissions of the College of William and Mary that they wish to apply for the Liberal Arts-Forestry curriculum. Admission to the College is granted under the same conditions as for other curricula. At the end of the first semester of the third year the College will recommend qualified students for admission to the Duke School of Forestry. Each recommendation will be accompanied by the student's application for admission and by a transcript of his academic record at William and Mary. No application need be made to the School of Forestry prior to this time.

Pre-Forestry Curriculum at William and Mary:

FIRST YEAR	<i>1st</i>	<i>2nd</i>
	<i>Sem.</i>	<i>Sem.</i>
Eng. 101, 102.....	3	3
French or German.....	3	3
Biol. 101, 102.....	5	5
Math. 103, 201 or 201, 202.....	3	3
Phys. Ed. 101, 102.....	1	1
	15	15

Preparation for Forestry

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SECOND YEAR

	<i>1st</i>	<i>2nd</i>
	<i>Sem.</i>	<i>Sem.</i>
Eng. 201, 202.....	3	3
French or German.....	3	3
Chem. 101, 102.....	5	5
Biol. 401; Biol. 206.....	4	4
Phys. Ed. 201, 202.....	1	1
	—	—
	16	16

THIRD YEAR

Econ. 201, 202.....	3	3
Govt. 201, 202.....	3	3
Biol. 301 or Elective Biology.....	4	—
Biol. 408.....	—	4
Physics 101, 102.....	5	5
	—	—
	15	15

INSTITUTE OF EARLY AMERICAN HISTORY AND CULTURE

THE INSTITUTE of Early American History and Culture was established in 1943 by the union of certain historical research and publication activities of the College of William and Mary and Colonial Williamsburg, Incorporated. The College contributed *The William and Mary Quarterly*, a historical periodical published since 1892, and the use of the rich resources of its library, while Colonial Williamsburg contributed the Williamsburg Restoration Historical Studies, its program of research fellowships, and the use of its important manuscript collections. The board of editors of the *Quarterly* and the Restoration's advisory council of historians were merged to form the first Council of the Institute, an advisory board drawn from the nation at large. The membership of the present Council is given below.

By promoting the study of early American history, the Institute aims, in the words of its Constitution, "to preserve and advance understanding of the enduring contributions of the colonists and the founders of the Republic." It does so by the publication of significant books and articles in the field of early American history from the beginnings through the Jeffersonian era, by conducting research itself and stimulating it elsewhere; by teaching and consultation; and by the acquisition of research materials on microfilm. Its collection of early American newspapers on film is one of the largest extant. Its publication of the *Virginia Gazette Index* (1950) provides the only comprehensive index to a series of important colonial newspapers so far made available to researchers.

The Institute cooperates in many ways and to the fullest possible extent with the historical activities of both the College and Colonial Williamsburg, but it is an autonomous organization with a separate and distinct program which is national rather than local. Its books, published over a joint imprint with the University of North Carolina Press, and the articles appearing in *The William and Mary Quarterly* are directed to the widest possible audience.

Institute of Early American History and Culture 305

The director of the Institute is Lester J. Cappon. On his staff are: James Morton Smith, editor of publications in charge of the book publication program, and Susan Lee Foard, assistant editor; William W. Abbot, editor of *The William and Mary Quarterly*; Elizabeth L. Suttell, associate editor of the *Quarterly*; Ira D. Gruber, fellow; Thad W. Tate, Jr., book review editor of the *Quarterly*. Mr. Cappon is also archival consultant of Colonial Williamsburg, and Messrs. Abbot, Cappon, Smith, Tate, and Gruber are members of the Department of History at the College.

The offices of the Institute and of *The William and Mary Quarterly* are on the Duke of Gloucester Street near the College campus. The postal address is Box 220, Williamsburg, Virginia, 23185.

The sponsors of the Institute are Davis Y. Paschall, President of the College of William and Mary, and Carlisle H. Humelsine, President of Colonial Williamsburg, Incorporated.

INSTITUTE OF EARLY AMERICAN HISTORY AND
CULTURE MEMBERSHIP AND COMMITTEES
OF THE COUNCIL

1963-64

Term Expires May 1964

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306 *Institute of Early American History and Culture*

Term Expires May 1966

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Publications Committee: MESSRS. ALEXANDER, BERKELEY,
HOLMES, KNOFF, POMFRET, RILEY, TOLLES, and WIGGINS.

William and Mary Quarterly Board: MISS CAMPBELL, MESSRS.
ADAIR, BELL, CRAVEN, CAPPON, MORGAN, PALMER, and
VER STEEG.

Operation and Management of Space Laboratory

Under the provisions of legislation enacted at the 1962 Session of the General Assembly, the College of William and Mary, the University of Virginia, and Virginia Polytechnic Institute have constituted a joint project, entitled Virginia Associated Research Center, for the operation and management of a space radiation effects laboratory in the vicinity of Hampton Roads, in cooperation with the National Aeronautics and Space Administration. NASA will construct the laboratory costing approximately twelve million dollars.

This opportunity, together with the new Physics Building at the College, will enhance the graduate program in physics at William and Mary, and intensify space research for the nation.

THE MARSHALL-WYTHE SCHOOL OF GOVERNMENT AND CITIZENSHIP

THE MARSHALL-WYTHE School of Government and Citizenship consists of the Departments of Business Administration, Economics, Government, History, Sociology and Anthropology, and is therefore included in the Division of Social Sciences. In 1926, through the generosity of James Goold Cutler, Esq., Rochester, New York, a fund of approximately \$100,000 was established, the income to be applied toward the salary of the John Marshall Professor of Government and Citizenship and for other purposes.

The School conducts a symposium, known as the Marshall-Wythe Symposium every fortnight during the second semester. One semester credit is given in this course, and a student may, in successive terms, receive a maximum of two credits.

THE COLLEGE NEWS BUREAU

THE INFORMATIONAL and public relations program of the College is carried on under the general direction of the Office of Development. It is implemented by the College News Bureau, which is under the supervision of a full-time editor. The News Bureau is the focal point for all information from the College to the general public. The bureau prepares news releases on all College activities, maintains the institution's relationships with press, radio and television media, and in other appropriate ways seeks to interpret the accomplishments of the campus community to the public.

The News Bureau also is a central depository for detailed biographical data on all students currently enrolled in the College, as well as biographical and professional data on all of the faculty currently in residence. It maintains a growing file of clippings, manuscripts and photographs relating to the day-to-day activities of the campus community which is becoming a useful source of history of the College's life. It also distributes information in answer to inquiries from prospective students, educators, historians and other interested persons who write from every state and many foreign countries.

THE 1964 SUMMER SESSION

THE SUMMER SESSION is planned to provide courses for undergraduate and graduate students enrolled in liberal arts programs, to provide professional training for teachers, counselors, principals, supervisors, and superintendents, and to furnish basic instruction in pre-professional programs, such as Forestry, Engineering, Medicine, Dentistry, Law, and the Ministry. Provision is made also for meeting the educational needs of members of the armed services and of high school graduates who wish to begin college work in the summer in order to accelerate their completion of the four-year college program.

The summer session is an integral part of the educational program of the College of William and Mary, and the opportunities for study are essentially the same as in the regular academic session. Courses are carefully selected from the regular session curriculum and are supplemented by programs specifically designed to meet the interests and needs of students who attend the summer session. Instruction is provided by regular members of the William and Mary faculty supplemented by specialists from other institutions.

For the most part, degree requirements, supervision of students, college regulations, the Honor System, and the like, set forth elsewhere in this catalogue, apply in the summer session. Admission to the summer session does not assure admission to a degree program. Summer session students who wish to become candidates for degrees at William and Mary must make application to the Dean of Admissions.

The summer session consists of a six-week term followed by a three-week post session. Students may enroll for either or both terms. Certain courses in Law, Science and Mathematics will be taught on a nine-week basis. Additional workshops for teachers may be taken from three- and six-week terms. Six semester hours will constitute a full course load for the six-week term and the three hours will be considered a full load during the post session.

SUMMER SESSION CALENDAR

1964

June 14	Summer Band School*
June 15	Registration for First Session
June 16	Classes begin
June 22	Institute for Teachers of Science* begins
July 24	End of First Session
July 27	Post Session begins
August 24	Post Session ends
August 25	Summer Commencement

FEES AND EXPENSES

Tuition for the summer session is comparable to that charged students enrolled during the regular session. The unit for computing the tuition charge is the semester hour of credit. Tuition is \$10.00 per semester hour for Virginia residents and \$16.00 per semester hour for non-residents. There are no additional special fees except a registration fee of \$3.00 per student, and a laboratory fee in laboratory courses.

All students of the College, both men and women, are required to room in college dormitories, except graduate students and those commuting daily from their homes. The weekly rates for rooms vary according to the accommodations needed by students: for men, the rates range from \$4.00 to \$6.50 per person; for women, \$4.75 to \$6.75 per person. A limited number of accommodations for married couples may be found in private homes and apartments near the College. Students are urged to reserve their rooms as far in advance as possible.

Meals are provided in the Campus Center on an a la carte plan. Expenditures for food vary with individual appetites, but the weekly average is approximately fifteen dollars.

*Special bulletins for these programs are available at the office of the Director of the Summer Session, College of William and Mary.

All freshmen and sophomore students who are regularly enrolled at William and Mary, or any other college, and who live in the dormitories, are expected to take their meals in the Campus Center. Meal Tickets are available.

Students should allow ten to fifteen dollars for text books; other expenses such as travel, recreation, clothing, and the like depend upon the individual.

INFORMATION ABOUT THE SUMMER SESSION

Besides the Summer Session catalogue which is distributed in February, there are a number of special bulletins available that describe in detail certain opportunities for students in the College of William and Mary. A preliminary announcement which lists all courses and instructors is available in January. Bulletins of information on the Summer Session may be secured by writing to the Director of Summer Session, College of William and Mary, Williamsburg, Virginia.

THE EVENING COLLEGE

THE COLLEGE OF WILLIAM AND MARY in September, 1952, initiated a program of evening meetings of courses to enable residents of Tidewater communities and military personnel stationed in the area to obtain residence credits which might be applied toward a degree at William and Mary or at other accredited institutions.

Enrollment during the first semester of the current year totalled 380 individuals. About one-half of the students were school administrators and teachers from the Tidewater area.

The essential requirement for admission to the Evening College is graduation from an accredited secondary school with a minimum of sixteen acceptable units or the equivalent of this requirement as shown by examination. All applicants for admission, other than former students in good standing at the College of William and Mary, must file an application in person at the Evening College office during pre-registration periods.

Transcripts of high school academic records or transcripts of work taken at other colleges must be furnished by all new applicants not later than one week prior to the regular registration date each semester. These transcripts must be requested by the applicant and must be mailed directly to the Director of the Evening College by the issuing high school or college.

The College of William and Mary will not take action on an application for admission until all application forms, transcripts, and test scores (when required) have been received and processed. Tests of the College Entrance Examination Board may be required at the discretion of the College. Tests may include the Graduate Record Examination, the Scholastic Aptitude Tests, the General Educational Development Test, or other tests deemed appropriate by the College.

Applicants who are eligible for admission to the Evening College are notified by mail. Applicants whose academic records are deemed unsatisfactory by the College may be permitted to take the tests noted above during a testing period. The cost of such tests is borne by the applicant. The College reserves the right to reject any applicant whose performance on such tests suggests to the examiners that he is not qualified to engage in the

courses in which he wishes to enroll. Such applicants are advised by mail as soon as practicable after test scores have been reviewed.

Registration in Evening College is open only to qualified applicants who enroll for academic credit. Auditors are not permitted to attend evening or Saturday courses.

Admission to the Evening College may not be construed as automatically admitting the applicant to the day session or to any other division or branch of the College of William and Mary.

Evening College undergraduate students are classified as non-matriculated students prior to acceptance as degree candidates. Nonmatriculated students who wish to earn a degree at William and Mary must make application for admission as degree candidates prior to the completion of 30 credits of undergraduate work. Graduate degree candidates must have obtained admission prior to the completion of the first course.

Courses are taught by members of the College faculty with some assistance from other qualified instructors.

Tuition fees for the 1963-64 academic year were \$12 per semester credit, payable upon registration. Some of the military students have enrolled under provisions of Armed Forces education plans in which the Services contribute a portion of the tuition fees.

A special bulletin giving full details concerning the Evening College may be obtained by writing to the Director of the Evening College, College of William and Mary.

THE EXTENSION DIVISION

The Extension Division was developed in order to provide college courses for adults in Tidewater Virginia who could not avail themselves of educational opportunities on the campus. Introductory and advanced courses in Liberal Arts and Education are included with a limited offering in Business. Noncredit courses, seminars and discussion groups may also be organized upon request.

With few exceptions, courses offered for credit meet weekly for sixteen sessions of three hours each and carry three semester hours of academic credit. Most classes meet during the evening hours. Credits earned in Extension courses may be applied toward degrees at the College of William and Mary *if the student has been admitted to candidacy for a degree and the course is approved by the student's advisor as meeting degree requirements*. Students who wish to transfer credits to another college must also obtain the approval of their college or their advisor.

Credits for advanced courses in Education may be taken for graduate credit. According to regulations of the Southern Association of Colleges and Secondary Schools, a maximum of twelve semester hours of graduate Extension credits may be applied toward Master's degrees. All courses to be included in graduate degree programs should be approved by the student's graduate advisor.

Permanent Extension Centers are maintained at Hampton, Henrico, Hopewell, Portsmouth and Princess Anne. Courses are also available each semester at Fort Eustis, Fort Lee, Fort Story, Langley Air Force Base, Naval Air Station-Oceana and the Little Creek Amphibious Base. Courses may be organized in other Tidewater communities by request.

Registration for Extension courses is held at the first class meeting unless otherwise specified in the Extension Bulletin. Students enrolling in Extension courses for the first time must present evidence of high school graduation or of good standing at the college previously attended. In situations where reasonable doubt of the student's qualifications may exist, additional evidence such as test results or reports of previous academic achievement may be requested in order to establish eligibility. The College

reserves the right to reject any applicant whose test results and previous background suggest that he is not qualified for the course for which he has applied.

Bulletins which list courses available in Extension are prepared each semester and are available approximately one month prior to the beginning of classes. These bulletins may be obtained by contacting the Director of Extension, College of William and Mary, Williamsburg, Virginia.

THE WILLIAM AND MARY ENDOWMENT FUND

THE ENDOWMENT ASSOCIATION

The affairs of the Association, a private corporation, are conducted by a self-perpetuating elected Board of from nine to fifteen members. The present membership of the Board is as follows:

ALVIN DUKE CHANDLER, '22x, Williamsburg, *President*
ROBERT T. ARMISTEAD, '36, Williamsburg, *Vice-President*
J. D. CARNEAL, JR., '20, Richmond
MRS. ALFRED I. DUPONT, Wilmington, Delaware
W. BROOKS GEORGE, '32, Richmond
HENRY CLAY HOFHEIMER, II, Norfolk
DAVIS Y. PASCHALL, '32, Williamsburg
WILLIAM L. PERSON, '24, Williamsburg
J. GARLAND POLLARD, JR., '23, Somers
JAMES M. ROBERTSON, '29, Norfolk
HUGH H. SISSON, JR., Hightstown, New Jersey
H. HUDNALL WARE, '22x, Richmond
WALTER J. ZABLE, '37, San Diego, California

VERNON L. NUNN, *Secretary-Treasurer*

The income from the Association's funds is used to support scholarships, Chancellor professorships, and other general College purposes. The objectives of the Endowment Association are contained in the charter and by-laws, copies of which may be obtained on request.

THE FRIENDS OF THE COLLEGE

The Friends of the College number forty. Annual memberships of this organization are \$100; life memberships, \$1,000. The income of the Friends is spent currently for a variety of purposes at the discretion of the President of the College. Recurring expenditures are for the support of concerts, lectures, the Musical Records Collection, the War Memorial Book Shelf, undergraduate activities and scholarship aid. The annual bulletin of the Friends may be obtained on request.

GIFTS AND BEQUESTS

Although the College of William and Mary derives a certain amount of its financial support from appropriations from public funds by the General Assembly of the Commonwealth of Virginia, the remainder of the money required for its operation—and particularly for the qualitative development of its research and educational services—must come from endowment funds, gifts, bequests, and other types of support from a variety of nontax or nonpublic sources. In a period of steadily increasing demands for additional or enlarged services of various types, all colleges—those which are entirely privately supported, those which are entirely state-supported, and those which, like the College of William and Mary, rely on both public and private funds—must look to their friends, alumni, and others interested in the continued growth of higher learning, for the economic assistance necessary to support their educational program.

This economic assistance may take the form of single or continuing grants from educational foundations, or from private corporations, or from individuals. The individual gift may be either a lifetime gift or a testamentary gift or bequest. It may be a general gift, to be used for such purposes as the College may itself determine; or it may be a specific gift for a purpose desired by the donor or proposed by the College. It may be a gift large enough to cover the entire cost of establishing and maintaining a particular structure or activity, or it may be an integral part of a fund representing several gifts whose aggregate will suffice to meet the necessary cost of the total project.

A wide variety of essential activities of the College may be aided fundamentally by such gifts and bequests. Scholarships and fellowships, with their attendant supplemental grants to the College to cover the extra costs incurred in accepting such scholarship and fellowship holders as students, are one of the most general categories of such private support. Similarly, grants in aid of staff salaries, including the creation of endowed chairs and of distinguished professorships, are increasingly needed by institutions such as the College of William and Mary, to meet the competition of private industry and other educational agencies which are continually bidding for the services of such trained personnel.

Research grants, funds to finance the purchase of rare manuscripts and related scholarly materials, exchange professorships and scholarships to permit students and faculty from the College to study abroad and to bring to this campus their counterparts from foreign universities, are other continually needed contributions. Finally, the College has occasionally benefited from gifts for a variety of major capital projects (e.g., buildings) for which future gifts and bequests will be welcomed.

Gifts. Lifetime gifts, or gifts by corporations or foundations, should be made to The Endowment Association of the College of William and Mary in Virginia, Inc.

Any kind of property, real or personal, may be the subject of a gift and only such form as is required to pass title is necessary. If the gift consists of real property, the title will be passed by deed; if it consists of cash or unregistered bonds, the gift is consummated by delivery of the property; or if stocks, by delivery of properly endorsed stock certificates. Unless restricted, the use of gifts is at the discretion of the Board of The Endowment Association. Usually the proceeds, conservatively invested, are added to the permanent endowment of the College of William and Mary. The donor may, however, restrict the use of any gift and designate definitely the purposes for which it shall be used. In such cases, the transfer of property would be accomplished by a letter or other documents describing in detail the purposes for which the proceeds of the gift are to be used and when accepted by The Endowment Association the term or conditions set out therein become binding upon it.

Bequests. Testamentary gifts, or bequests, should be made to The Endowment Association of the College of William and Mary in Virginia, Inc. Bequests may be made by setting their provisions forth in a will; or, if a will has already been drawn, they may be expressed in a codicil to the will. The following forms for wills or codicils are suggested:

GENERAL

I (*give*, if personal property; *devise*, if real property) and bequeath to The Endowment Association of the College of William and Mary in Virginia, Inc., a private corporation existing under the laws of the Commonwealth of Virginia and located in the

City of Williamsburg, Virginia, and to its successors forever, the sum of.....dollars (or otherwise describe the gifts) for the general purposes and uses of the College of William and Mary in Virginia at the discretion of The Endowment Association of the College of William and Mary in Virginia, Inc.

SPECIFIC

I (*give*, if personal property; *devise*, if real property) and bequeath to The Endowment Association of the College of William and Mary in Virginia, Inc., a private corporation existing under the laws of the Commonwealth of Virginia and located in the City of Williamsburg, Virginia, and to its successors forever, the sum of.....dollars (or otherwise described the gift) and direct that the principal thereof and/or income therefrom shall be used for the following purposes, viz. (here describe the use desired).

CODICIL

Having hereinbefore made by last Will and Testament dated....., and being of sound mind, I hereby make, publish, and declare the following codicil thereto; (here insert clause in same form as if it had been included in the body of the Will). Except as hereinbefore changed, I hereby ratify, confirm and republish my said last Will and Testament.

SCHOLARSHIPS, FELLOWSHIPS, LOANS, AND STUDENT EMPLOYMENT

The College offers financial assistance to deserving students who wish to defray a part of their total college expense. The types of aid include scholarships, fellowships, grants-in-aid, loans and student employment. Inquiries and applications for financial assistance should be submitted to the Director of Student Aid. Students in residence who wish to apply or re-apply for aid must do so in writing prior to May 1 of the session preceding the one for which they hope to obtain aid. Entering students must present their applications before August 1 of the year they expect to enter the College. No application for aid will be considered until the student has been selected for admission.

All awards, unless otherwise stated, are made on the bases of need, character, and scholastic ability, and are made for one year only. Recipients of these awards must be in residence at the College.

SCHOLARSHIPS

Students holding scholarships which exempt them from the payment of college fees must live in the residence halls owned by the College, and must board in the College Refectory.

At the beginning of the first semester, one-half of the value of a scholarship is credited to the student's account; the remainder is credited at the beginning of the second semester, provided the student has satisfied the academic and other requirements set forth in the Notification of Award.

All students who hold scholarships must make a quality point average of 1.0, or better, during the first semester to have the award continued for the second semester.

Scholarships are awarded for one year only, but may be renewed for each succeeding year. In order to renew a scholarship for the following year, it is necessary that the holder re-apply to the Director of Student Aid by May 1. The minimum academic requirement for renewal is a quality point average of 1.0 for the school year. In addition, the student must have a good conduct record and give evidence of continued financial need.

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Scholarships are available to able and deserving men and women residents of Virginia. A limited number of scholarships are also available to out-of-state male residents. Some of the scholarships open to undergraduate students are described below:

1. Unfunded Scholarships valued up to \$200 each for an academic year. These scholarships are available to Virginia students who meet the qualifications of scholastic achievement, character, and need.
2. Thomas Ball Scholarship Fund, established to aid students from Tidewater Virginia and particularly from the Northern Neck of Virginia. These awards vary from \$100 to \$500 for an academic year.
3. Cary T. Grayson Scholarships valued up to \$200 for an academic year. These scholarships are available to men students, Virginians and non-Virginians alike.
4. The Greene Scholarships, valued from \$100 to \$500 per academic year, available on the basis of scholastic excellence. To be eligible the applicant is expected to be in the upper third of his senior class in secondary school.
5. The Cromwell Scholarships, valued from \$100 to \$300 per academic year, awarded on the bases of academic excellence and need.
6. Teacher Training Scholarships are available to students who are residents of Virginia and plan to teach in the Virginia Public Schools. These scholarships are valued at \$350 per academic year. Address all inquiries to Dean Howard Holland, School of Education.
7. Science Contest Scholarships. Eight awards made annually to entering Virginia male students on the basis of competitive written examination in each of four fields: biology, chemistry, mathematics, and physics. The first place award in each field is valued at \$500 for the session; the second place award in each field is valued at \$300 for the session. These scholarships are renewable for three succeeding years if the recipient achieves a creditable record.
8. Modern Language Scholarships. The Modern Language Association of Virginia conducts a yearly tournament in French and Spanish in the high schools of Virginia. The

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College of William and Mary offers two scholarships of \$100 each, one for French and one for Spanish. These scholarships are open to men only.

9. Latin Tournament Scholarships. The Virginia Classical Association conducts annually a Latin Tournament for Virginia high school students. The College of William and Mary offers one scholarship valued at \$200 to a senior winner in one of the several classes of entrants in this tournament. The scholarship is renewable after the freshman year, if the recipient achieves a creditable record.

FOREIGN EXCHANGE SCHOLARSHIPS

Exeter College Scholarship. The College of William and Mary has entered into an agreement with Exeter College (University College of the South West, Exeter, England) for an annual exchange of students. Under the plan the College of William and Mary will each year send one of its outstanding students abroad for a year's study at Exeter College, and a student from Exeter College will come to the College of William and Mary for the same period. All college fees (tuition, registration, room and board) will be waived for the exchange student who will live in one of the Residence Halls of Exeter College. The Exeter College Scholarship is open to students who are about to enter their junior year or who are members of the graduating class.

Drapers' Company Scholarship. Each year an outstanding graduate of William and Mary will be selected by the College for a two-year period of study at Oxford, Cambridge or at another British university. This is made possible by an agreement between William and Mary and the Drapers' Company of London. In exchange a British student, preferably from Bancroft's School, will be selected by the Drapers' Company for a two-year period of undergraduate study toward a Bachelor's degree at the College of William and Mary. This exchange program will provide the cost of tuition and living expenses for each student.

FINANCIAL AID FOR GRADUATE AND PROFESSIONAL STUDENTS

The Department of Biology offers for each academic session three graduate assistantships of \$1,500 each plus applicable tui-

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tion. In addition, there are available several research assistantships with stipends of \$2,400 to \$3,000 each for twelve months. Students holding these grants will be assigned research projects on a half-time basis.

The School of Education offers two assistantships of \$1,500 each plus applicable tuition on an academic session basis.

The Department of English offers for each academic session one assistantship of \$1,500 plus applicable tuition and one fellowship of \$1,200.

The Department of History offers three \$2,000 assistantships plus applicable tuition, two \$1,500 assistantships plus applicable tuition, and two \$1,500 fellowships in its combined Master of Arts and Historical Administration program. The fellowships are also available to students enrolled in the Master of Arts program. Other aids available to graduate students in history are the fellowships sponsored by the Society of the Cincinnati and the Order of First Families of Virginia. These two grants are awarded annually in the amounts of \$500 and \$300 respectively.

The School of Marine Science makes available research assistantships to students working in the Virginia Fisheries Institute at Gloucester Point, Virginia. These research assistantships carry a stipend of \$200 per month on a twelve-month basis.

The Marshall-Wythe School of Law has a number of scholarships available to eligible students. The Matthew Gault Emery Law Scholarship is valued at \$300; the Law and Taxation Scholarship is valued at \$500; and the W. A. R. Goodwin Scholarships and Grants are valued from \$500 to \$3,000 each.

The Department of Mathematics offers two fellowships of \$1,200 each, and six assistantships valued at \$1,500 each plus applicable tuition per academic session.

The Department of Physical Education for Men offers one assistantship of \$1,500 plus applicable tuition on an academic session basis.

The Department of Physics offers one fellowship of \$2,000 for the academic session, and six graduate assistantships of \$1,500 each plus applicable tuition for the academic session. Available also are twelve research fellowships valued at \$3,500 each on a twelve-month basis. Students holding these grants will be assigned laboratory or research work.

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The Department of Psychology offers a work-study plan which combines clinical and experimental psychology. Participants in this program work on a half-time basis as Interns in Psychology at Eastern State Hospital in Williamsburg for which they receive a stipend of \$115 per month. The Department offers also two graduate assistantships valued at \$1,500 plus tuition for the academic session.

MERIT SCHOLARSHIPS

The Merit Scholarships are awarded on the basis of academic achievement to the ranking undergraduate scholars of the College and are not available to entering students.

Each of these scholarships exempts the student from tuition fees to the extent of \$75.00 (if the recipient is a Virginia resident), or \$100.00 (if the recipient is not a Virginia resident), except that the Elisha Parmele Scholarship and the William Arthur Maddox Scholarship amount to \$100.00 and \$75.00 respectively, regardless of residence.

One-half of the scholarship is credited to the student's account at the beginning of the first semester and one-half at the beginning of the second. Failure to remain in residence at the College for the second semester forfeits one-half the value of the scholarship.

<i>Award</i>	<i>Donor or Source</i>
HENRY EASTMAN BENNETT	Loren Eastman Bennett, Mrs. Henry E. Bennett, and Mrs. William George Guy
GEORGE BLOW	Captain George P. Blow
PRESIDENT BRYAN	Friends of the College of William and Mary
"KING" CARTER	Founded by Robert Carter, revived through the efforts of Mrs. Malbon G. Richardson
CHANCELLOR	Hugh Blair Grigsby
JOHN ARCHER COKE	John Archer Coke and Mrs. Elsie Coke Flanagan
EDWARD COLES	Mary Roberts Coles and Mrs. George S. Robins

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<i>Award</i>	<i>Donor or Source</i>
CORCORAN	W. W. Corcoran
JACKSON W. DAVIS	General Education Board of the Rockefeller Foundation and Friends of the College
GRAVES	Rev. Dr. Robert J. Graves
ROBERT W. HUGHES	Robert M. Hughes, LL.D.
JOSEPH E. JOHNSTON	Robert M. Hughes, Jr.
JOHN B. LIGHTFOOT	Mrs. Mary Minor Lightfoot
MARY MINOR LIGHTFOOT	Mrs. Mary Minor Lightfoot
WILLIAM ARTHUR MADDOX	Susie W. Maddox
ELISHA PARMELE	United Chapters of the Phi Beta Kappa Society
JOSEPH PRENTIS	Judge Robert R. Prentis
JOHN WINSTON PRICE	Starling W. Childs
SOUTTER	James T. Soutter

GENERAL SCHOLARSHIPS

<i>Award</i>	<i>Donor or Source</i>
ALUMNI	Society of the Alumni
THOMAS BALL FUND	Mrs. Alfred I. (Jessie Ball) duPont
BOOTH-BINNS FUND	Arbella Booth Binns
CHRISTOPHER BRANCH	Blythe Walker Branch
J. BRUCE BREDIN	J. Bruce Bredin
BELLE S. BRYAN	John Stewart Bryan
JOHN STEWART BRYAN FUND	Mrs. Lettie Pate Evans
HARRY LEE CARTER	Harry Lee Carter
JOHN CLOPTON AND JOHN BACON CLOPTON	Mrs. Maria Clopton Jackson
BETTY RUTH CODDINGTON MEMORIAL	Alpha Chi Chapter of Gamma Phi Beta
COGGIN	Mr. and Mrs. William B. Coggin
RUSSELL MILLS COX, JR., WAR MEMORIAL	Dr. Russell M. Cox and Harry Duffield Cox, '43
CROMWELL	William N. Cromwell
CHANCELLOR DARDEN SCHOLARSHIP AND LOAN FUND	Mrs. Colgate W. Darden, Jr.

Scholarships, Loans, and Student Employment 325

<i>Award</i>	<i>Donor or Source</i>
DELTA DELTA DELTA	Alpha Mu Chapter of Delta Delta Delta
EARLY VIRGINIA HISTORY FELLOWSHIP	Order of First Families of Virginia
LETTIE PATE EVANS	Lettie Pate Evans Foundation
JUNIUS BLAIR FISHBURN FRIENDS	Junius Blair Fishburn Friends of the College of William and Mary
GENERAL FUND	Board of Visitors of the College of William and Mary
ANNE GOFF	Mrs. Anne B. Goff
ADMIRAL CARY T. GRAYSON	Anonymous
GREENE	Mr. and Mrs. William H. Greene
HIBBARD MEMORIAL	Captain and Mrs. R. C. Hibbard
IRVIN MEMORIAL	Miss Annie B. Irvin
LAMBDA CHI ALPHA MEMORIAL	Epsilon Alpha Zeta Chapter of Lambda Chi Alpha
LANGHORN-PUTNEY MEMORIAL	Eugenie D. Turnage
MEMORIAL ENDOWMENT FUND	J. Gordon Bohannon
RICHARD LEE MORTON	Faculty, Students and Alumni
THOMAS BALL MONTAGUE	Mary W. Montague
PAN-HELLENIC	Pan-Hellenic Council of the College of William and Mary
PI KAPPA ALPHA	Robert M. Hughes, LL.D.
JOSEPH SCHOOLFIELD POTTS, JR.	Mrs. Virginia N. Potts
PRENTICE-HILL DRAMATIC	Mrs. Anna Bell Koenig Nimmo
SECOND WORLD WAR	Mrs. Anna Bell Koenig Nimmo
BERTEL RICHARD RASMUSSEN WAR MEMORIAL	Mr. and Mrs. Bertel Rasmussen
MARY BOYD RYLAND	Archie Garnett Ryland
MARTHA WALLER SAUNDERS	Alice LaVillon Saunders
OSCAR F. SMITH MEMORIAL	Oscar F. Smith

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<i>Award</i>	<i>Donor or Source</i>
REX SMITH JOURNALISM SOCIETY OF THE CINCINNATI FELLOWSHIP IN HISTORY	Friends of Rex Smith Society of the Cincinnati in Virginia
TEACHER TRAINING SCHOLARSHIPS	The General Assembly
TYLER-CHANDLER UNFUNDED	Class of 1920 The General Assembly
UNITED DAUGHTERS OF THE CONFEDERACY	United Daughters of the Confederacy
VIRGINIA PILOT ASSOCIATION	Virginia Pilot Association of Norfolk, Virginia
WASHINGTON-JEFFERSON ALEXANDER W. WEDDELL	Daughters of the Cincinnati Alexander W. Weddell
VIRGINIA WEDDELL	Mrs. Virginia Weddell
WILLIAM AND MARY EDUCATIONAL FOUNDATION	William and Mary Educational Foundation

SPECIAL SCHOLARSHIPS

<i>Award</i>	<i>Donor or Source</i>
LATIN TOURNAMENT	College of William and Mary
MODERN LANGUAGE	College of William and Mary
SCIENCE CONTEST	College of William and Mary

GRADUATE, PROFESSIONAL AND
CO-OPERATING SCHOOLS

<i>Award</i>	<i>Donor or Source</i>
COLLEGE OF WILLIAM AND MARY	Massachusetts Institute of Technology
LAW AND TAXATION	J. D. Carneal, Jr.
MATTHEW GAULT EMERY LAW	Theodore S. Cox
KAPPA DELTA PI EDUCATION	Alpha Xi Chapter of Kappa Delta Pi
WILLIAM A. R. GOODWIN MEMORIAL FUND	Mrs. Lettie Pate Evans

Scholarships, Loans, and Student Employment 327

<i>Award</i>	<i>Donor or Source</i>
EXETER COLLEGE	Exeter College and the College of William and Mary
DRAPERS' COMPANY EXCHANGE SCHOLARSHIP	Drapers' Company and College of William and Mary
PHI ALPHA DELTA LAW	George Wythe Chapter of Phi Alpha Delta

LOAN FUNDS AND SCHOLARSHIPS

<i>Loan or Scholarship</i>	<i>Donor or Source</i>
PHILO SHERMAN BENNETT LOAN FUND	William Jennings Bryan
HOPE-MAURY LOAN SCHOLARSHIP	The Hope-Maury Chapter of the United Daughters of the Confederacy
NORFOLK COLLEGE ALUMNAE ASSOCIATION LOAN SCHOLARSHIP	Alumnae Association of Norfolk College
WILLIAM LAWRENCE SAUNDERS STUDENT AID FUND	William Lawrence Saunders
WILLIAM K. AND JANE KURTZ SMOOT FUND	Fairfax County Chapter, Daughters of the American Revolution
STATE STUDENTS' LOAN FUND	The General Assembly
NATIONAL DEFENSE STUDENT LOAN PROGRAM	United States Department of Health, Education and Welfare and The College of William and Mary

STUDENT EMPLOYMENT AND THE
WORK-STUDY PLAN

In order to coordinate work and study the College has vested control of student employment in the Committee on Scholarships and Student Employment. This supervision applies to positions on the campus as well as to jobs in the City of Williamsburg.

At the present time employment opportunities in the vicinity of the College of William and Mary are such that each student may be assured of a substantial work income. A student may

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expect to earn from one-fourth to three-fourths of his college expenses. Through the cooperation of Colonial Williamsburg and other business concerns, a plan synchronizing part-time employment with study has been developed.

In order to maintain a proper balance between hours of employment and academic loads, the College requires that all student employment on the campus or in the city be assigned by the Director of Student Aid. Students are cautioned not to undertake more outside work than their academic schedules will safely permit. The normal work load is fifteen hours per week, and no student may work more than twenty hours per week without permission from the Committee on Scholarships and Student Employment.

Student employment assignments are on a contractual basis. All students accepting employment are expected to meet the responsibilities of their respective jobs. Failure to do so will constitute adequate reason for the Committee to refuse further financial assistance.

The usual jobs available to students, both during the academic session and in the summer, are those as waiters, clerks, salesmen, technical and manual workers, stenographers, typists, and student assistants at the College. Whenever possible, the Committee on Scholarships and Student Employment will secure for the student a job which is directly related to his intended future career or to his course of study. In every case, an effort is made to give the student a job in which he can display his interests, talents, and skills to the best advantage.

PRIZES

The Lord Botetourt Medal. An annual award to the graduating student who has attained greatest distinction in scholarship. The medal was established in 1772, and has been revived through the generosity of Mr. Norborne Berkeley.

James Frederick Carr Memorial Cup. A memorial to James Frederick Carr, a former student of the College, who lost his life in the World War, March, 1919. This cup is the property of the College. The student winning the award has his name engraved on the cup. Awarded on the basis of character, scholarship, and leadership. Presented by Mrs. John B. Bentley.

Scholarships, Loans, and Student Employment 329

Chi Omega Award. Twenty-five dollars awarded by the local chapter of the Chi Omega sorority to the student attaining the highest average in the Department of Government.

Delta Omicron Rotating Scholarship. The Delta Omicron International Music Fraternity annually awards a \$100 Rotating Scholarship to a member of the fraternity.

The Educational Foundation Awards. These awards are made annually to the outstanding intramural athlete and to the outstanding intercollegiate athlete among the senior men. In making the awards consideration is given to character, leadership, scholarship and sportsmanship, as well as to athletic prowess. These awards are supported by the College of William and Mary Educational Foundation, Inc.

The Wayne F. Gibbs Award. A prize of \$25 annually shall be awarded to the best student in accounting who shall have successfully completed (or is about to complete) his undergraduate work.

The Robert L. Greene Chemistry Scholarship. This award is made annually to a junior or a senior student who is concentrating in chemistry. It is valued at \$300 for the session and is awarded upon the recommendation of the Department of Chemistry.

The William A. Hamilton Prize. A prize of \$300 established in 1938 by Charles P. Sherman, D.C.L., LL.D., as a memorial to the late William A. Hamilton, D.C.L., formerly Professor of Jurisprudence and Dean of the School of Economics and Business Administration, awarded to the student graduating in Law who shall write and submit the best essay or thesis on a subject connected with Roman Law or with Comparative Roman and Modern Law, the subject to be assigned by the faculty of the Marshall-Wythe School of Law.

James Barron Hope Scholarship. Established in 1897 by Robert M. Hughes, LL.D., of Norfolk, Virginia. It is awarded for the best piece of creative writing published in the College magazine and written by a student below senior rank. The scholarship exempts Virginia students from the payment of \$75 in fees and non-Virginia student, from \$100 in fees.

The L. Tucker Jones Memorial Prize. These prizes are awarded annually to the outstanding senior students in the men's and

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women's intramural programs. In making the awards consideration is given to qualities of leadership, high ideals, and scholastic standing. These prizes are supported by the L. Tucker Jones Memorial Fund.

The Tiberius Gracchus Jones Literary Prize. Established by Archer G. Jones as a memorial to his father, Tiberius Gracchus Jones, a member of the Class of 1844-45. The income from the gift of \$1,000 supports a prize for the best English essay submitted by any undergraduate student. The word "essay" includes the poem, the short story, the play, the oration, and the literary essay.

Lawyer's Title Award. The Lawyer's Title Insurance Corporation of Richmond, Virginia, awards an annual prize of \$100 together with an appropriate certificate to the senior or graduating student of law in the Marshall-Wythe School of Law found by the faculty of the Law School to be most proficient in the law of real estate.

The Seidman & Seidman Tax Award. The firm of certified public accountants of Seidman & Seidman makes an annual award of a gold key on which the seal of the College is engraved, to the student in the Marshall-Wythe School of Law who, at graduation, has achieved the highest average in his courses on taxation, provided that his program has included at least twelve semester hours in this field.

The Society of the Cincinnati in the State of Virginia Prizes. The Society offers each year a medal of bronze and a cash prize of \$100 to a male student, majoring or minoring in history, who submits the best essay on a subject dealing with the constitutional history of the United States, or with Virginia Colonial history. The subject must be approved by the chairman of the history department. The essays must be submitted to him during the first week in May. They must be typewritten, with duplicate copies, and signed with a pseudonym. The author's name together with his pseudonym should accompany each essay in a sealed envelope. No prize will be given if a paper of sufficient merit is not submitted.

Sullivan Awards. A medallion awarded by the Southern Society of New York in recognition of influence for good, taking

Scholarships, Loans and Student Employment 331

into consideration such characteristics of heart, mind, and conduct as evince a spirit of love and helpfulness to other men and women. Awarded each year to a man and a woman from the student body and to a third person possessing the characteristics specified by the donors.

The Wall Street Journal Achievement Award. A suitably inscribed medal and a year's subscription to the *Wall Street Journal* awarded to the outstanding senior in the Investments course.

The Virginia Trust Will Awards. The Virginia Trust Company of Richmond makes awards of \$50 to each of the two students in the Marshall-Wythe School of Law who submit the best wills. These students are also eligible for state-wide awards.

PRIZES AND HONOR AWARDS

PHI BETA KAPPA

INITIATES, ACADEMIC YEAR, 1962-1963

INITIATES-IN-COURSE

Class of 1963

YVONNE LOUISE BAAY	Arlington, Virginia
BONNIE JANE BARR	Potomac, Maryland
PATRICIA A. BROMBACH	Lagrangeville, New York
JAMES A. COCHRANE	Richmond, Virginia
JERYL SHEILA DIAMANT	Newport News, Virginia
R. BRUCE DOUGLASS	Aberdeen, Maryland
RAYMOND G. FREY, JR.	Norfolk, Virginia
KAREN LESLIE HARKAVY	Newport News, Virginia
WILLIAM JONAS JONES, JR.	Whaleyville, Virginia
JULIE A. KNEEN	Galva, Illinois
BETTY BARROW KREGER	Abingdon, Virginia
FELICIA E. LANDIS	Churchland, Virginia
JOAN LEE	Williamsburg, Virginia
HOWARD R. LLOYD, JR.	Demarest, New Jersey
ANNA BYRD MAYS	Arlington, Virginia
JOHN B. A. McMILLEN	Chevy Chase, Maryland
SUSAN ELAINE MEADOR	Roanoke, Virginia
KATHLEEN M. MILLER	Alexandria, Virginia
LUCINDA SHERRILL PARRISH	Arlington, Virginia
WYLEY L. POWELL	Halifax, Virginia

NANCY LEE RAMSEY	Charlotte Court House, Virginia
DIANA ELISE RUCKER	Arlington, Virginia
LYDIA SUSAN SALMON	Williamsburg, Virginia
WILLIAM I. SALMON	Williamsburg, Virginia
PAUL FENTON SHEPARD	Arlington, Virginia
BONNIE SUSANNE SHERMAN	Williamsburg, Virginia
PAUL W. SHUMATE, JR.	Fairfax, Virginia
SYLVIA JOY SIDWELL	Takoma Park, Maryland
VALERIE JEAN SIMMS	Springfield, Virginia
STEPHEN S. SKJEI	Norfolk, Virginia
KAREN PENNY STENBO	Harrison, New York
MARILYN JANE STERNER	East Stroudsburg, Pennsylvania
JAMES LETCHER TUCKER	Dublin, Virginia
ALFRED YOUNG WOLFF, JR.	Hanover, Pennsylvania
DOUGLAS SCOTT WOOD	Virginia Beach, Virginia

Class of 1961

DORIS DULIN HARRIS	Laredo, Texas
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From the Faculty

STANLEY B. WILLIAMS	Williamsburg, Virginia
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AWARDS AND PRIZES, 1962-63

Algernon Sydney Sullivan Awards: FRANK KARL ZAVITKOVSKY, Pennington, New Jersey; PATRICIA ARLENE POUND, Tampa, Florida; EDWARD KATZ, Williamsburg, Virginia.

James Frederick Carr Memorial Cup: ROBERT JOSEPH HARRIS, JR., Williamsburg, Virginia.

The Lord Botetourt Medal: KAREN PENNY STENBO, Harrison, New York.

The L. Tucker Jones Memorial Prize: KATHRYN LYNNE THOMAS, Arlington, Virginia; PETER JAMES HUNTER, JR., Bogota, New Jersey.

Chi Omega Award: MARILYN JANE STERNER, East Stroudsburg, Pennsylvania.

The Wayne F. Gibbs Award: WALTER T. GARRETT, Axton, Virginia.

The Tiberius Gracchus Jones Literary Prize: SAMBRA LOUIS NEET, Waynesboro, Virginia.

The Society of the Cincinnati in the State of Virginia Prize: MARY MARGARET LIST, Reistertown, Maryland.

Lawyer's Title Award: EMERIC FISCHER, Newport News, Virginia.

The Seidman & Seidman Tax Award: REXFORD R. CHERRYMAN, Williamsburg, Virginia.

The Virginia Trust Will Awards: ALAN PATRICK OWENS, Williamsburg, Virginia; PHILLIP P. PURRINGTON, JR., Williamsburg, Virginia.

The William A. Hamilton Prize: RICHARD SIDNEY COHEN, Plainfield, New Jersey.

The Wall Street Journal Achievement Award: WALTER T. GARRETT, Axton, Virginia.

Student's Medal of the American Institute of Chemists: WILLIAM JONAS JONES, JR., Whaleyville, Virginia.

Pi Delta Epsilon Medal of Merit Awards: RHEA MAUREEN NEUROTH, Richmond, Virginia; H. MASON SIZEMORE, JR., Halifax, Virginia.

MERIT SCHOLARSHIPS AWARDED, 1963-64

Chancellor: BRENDA ELLEN CRABTREE, East Riverdale, Maryland.

Elisha Parmele: GAY ANNE WEST, Niles, Michigan.

Joseph Prentis: ROBERT DAVIDSON PAVEY, Dayton, Ohio.

George Blow: DAVID ALAN BLUMENTHAL, Norfolk, Virginia.

Joseph E. Johnston: VIRGINIA LOUISE WHITENER, Macon, Georgia.

John Archer Coke: DONNA JOYCE PROVINCE, Bridgeville, Pennsylvania.

Robert W. Hughes: FRANK M. TURNER, Wilmington, Ohio.

Edward Coles: JEFFREY E. MARSHALL, Westfield, New Jersey.

"King" Carter: KATHLEEN MEGAN CARR, Falls Church, Virginia.

Corcoran: NELSON L. HOWER III, Arlington, Virginia.

Soutter: JOE ANNE SMITH, Alexandria, Virginia.

Graves: ANNE CLEATON BARDEN, Richmond, Virginia.

John B. Lightfoot: BILLY C. BALDWIN, Honaker, Virginia.

Mary Minor Lightfoot: JANET MARGARET BEERS, Arlington, Virginia.

John Winston Price: COURTNEY MORTON CARTER, Charleston, South Carolina.

William Arthur Maddox: JAMES CALVIN BREEDEN, Charlottesville, Virginia.

Henry Eastman Bennett: CONSTANCE WREN HUDSON, Hampton, Virginia.

President Bryan: JAMES BRUCE DAVIS, Vienna, Virginia.

Jackson W. Davis: MARY ANITA JONES, Alexandria, Virginia.

DEGREES CONFERRED

Regular Session 1962-1963

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RUSSELL CHANCELLOR ADDISON, JR.	Amherst
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*JOSEPH PATRICK HENNESSY, JR.	Newport News
DAVID K. HERNDON	Arlington
MICHAEL ANSLEM HOGAN	Bedford

*Degree requirements completed February 1, 1963.

ROBERT ADAIR HOLDEN	Philadelphia, Pa.
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LEO MITKIEVICZ, JR.	Williamsburg
*THOMAS EDWARD MURPHY	Suffolk
JAY JOSEPH NICKEL	Livingston, N. J.
*STEPHEN MICHAEL OPPENHEIMER	Newport News
LUCINDA SHERRILL PARRISH	Arlington
PATRICIA ARLENE POUND	Tampa, Fla.
CHARLES W. PRINCE, JR.	Goldsboro, N. C.
ROBERT W. REIGHLEY	Peninsula, Ohio
DAVID BYRON ROYE	Drexel Hill, Pa.
FILLMER CHURCHILL RUEGG	Falls Church
LYDIA SUSAN SALMON	Williamsburg
WILLIAM IRWIN SALMON	Williamsburg
JOHN MARSCHALL SAWYER	San Antonio, Texas
VIRGINIA CAROLYN SCOTT	Morris Plains, N. J.
PAUL FENTON SHEPARD	Arlington

High Honors in Physics

BONNIE SUSANNE SHERMAN	Williamsburg
PAUL WILLIAM SHUMATE, JR.	Fairfax
WILLIAM HENRY SIMPSON	Blackwood, N. J.
WILLIAM DOLSON SMITH	Hohokus, N. J.
EDWARD LUNG SUNG	Kowloon, Hong Kong
*RICHARD TERRY SWENSON	Manchester, Conn.
GERALD DAVID TEMES	Woodridge, N. Y.
JAMES BARBOUR TERRILL	Orange

*Degree requirements completed February 1, 1963.

*MAX TONGIER, JR.	Coffeyville, Kan.
MARY ELIZABETH UPSON	Virginia Beach
CAROLE ANN VALDES	McLean
WILLARD RANDOLPH WEAVER, JR.	Newport News
GEORGE SCHETTLER WEBB	Alexandria
VIRGINIA LYNN WILKINSON	Arlington

BACHELORS OF ARTS

DAVID BENJAMIN JACOB ADAMS	Key West, Fla.
<i>High Honors in Government</i>	
DOYE WAYNE ADAMS	Portsmouth
LARRY CARL ALEXANDER	Covington
JEFFERY MINER ALLEN	Barrington, R. I.
MARY BETH ANDERSON	Falls Church
STEPHEN KENNETH ANDERSON	Hamilton, Ohio
JOHN HOBSON ARMENTROUT	Roanoke
CHAMPE PENN ARMSTRONG	Richmond
RANDIE CLAIRE ATKINS	Fairfax
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ARMEN J. BAHADURIAN	Neptune, N. J.
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ELIZABETH BARNES	Wicomico Church
BONNIE JANE BARR	Potomac, Md.
DIANE F. BARRETT	West Point, N. Y.
STEPHEN DALTON BARRETT	Barrington, R. I.
KENLIN MASSIE BARTLETTE	Newport News
RICHARD OLIVER BASSUENER	Falls Church
BONNIE LEE BATES	Hampton
KATHERINE LINDA BATTENFIELD	Glen Allen
SARA BRYAN BAUGHAN	Princess Anne, Md.
JENNIE D. BEARY	Fairfax
BARBARA ANNE BEAUMONT	Richmond
<i>Honors in Sociology and Anthropology</i>	
CLAUS HENRY BECKROGE	Norfolk
BEVERLEY LEA BECKWITH	Fredericksburg
JAMES BEHRMANN	Ridgewood, N. J.

*Degree requirements completed February 1, 1963.

ROGER HALDEMAN BERGEY	Strasburg
JESSE LEROY BERRY	Ottoman
R. VERNON BESS	Portsmouth

Honors in Psychology

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PATRICIA GAYLE BEVERLEY	Chatham
STEVEN M. BISHOP	Jamestown, N. Y.
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DOUGLAS WAYNE BLEVINS	Cranes Nest
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NANCY ELIZABETH BOWMAN	Roanoke
BEVERLEY JEAN BOZARTH	Williamsburg
JOAN ELIZABETH BRAME	Richmond
ROSEMARY SUE BREWER	Lorton
BASIL PAGE BRINKLEY	Newport News
PATRICIA ANNE BROMBACH	Brookley A. F. B., Ala.
*ELIZABETH STUART BROWN	Oradell, N. J.
*MARVIN H. BRYANT, JR.	Williamsburg
WILLIAM TURNER BRYANT	Williamsburg
DONALD PEYTON BURCHELL	Alexandria
RICHARD JAMAR BURK, JR.	Richmond
ELIZABETH BURLESON	Alexandria

High Honors in Sociology and Anthropology

ROGER ADOLPH BUSCH	Red Bank, N. J.
ROBERT LEE BUTLER	Richmond
JERYL DIAMANT BYRD	Newport News
HARTLEY LOUISE CAMPBELL	Richmond
JEANNE CLARKE CAMPBELL	Lynchburg
KATHARINE JEFFERS CANADY	Norfolk

*Degree requirements completed February 1, 1963.

†Degree requirements completed January 28, 1963.

SANDRA HARRIS CARNEY	Williamsburg
MARY WITHERS CARR	Suffolk
*SALLY BURT CHAMBLEE	Waverly
JOEL MCKEE CHAPMAN	Topsham, Maine
JAMES WILLIAM CHEEVERS	Pittsfield, Mass.
*DIANNE MARIE BASINGER CHESON	Richmond
MARCIA LYNNE CLOUGH	Arlington
WAYNE CARLETON COAKLEY	Alexandria
CATHRYN DIANE COBLIN	Williamsburg
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HENRY ALOYSIUS DAMMINGER	McLean
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EMILY CATHERINE DAY	Parma, Mich.
EUGENE DE ANZORENA	Chevy Chase, Md.
KATHRYN BRYAN DEEDS	Pulaski
JAMES THIESSEN DELANEY	Bergenfield, N. J.
KENT TIFFANY DELANO	Fair Haven, N. J.
EMILY CARY DELK	Indianapolis, Ind.
JANICE E. DELLAERO	Fort Eustis
VICTOR REGINALD DESPARD, III	Lancaster, Pa.
VICTORIA BETH DEWSBURY	Richmond
SANDRA LEE DIXON	South Boston
*RICHARD DALTON DODGE	Garrison-on-Hudson, N. Y.
ROBERT BRUCE DOUGLASS	Aberdeen, S. D.
<i>Honors in Philosophy</i>	
WILLIAM DANIEL DRISCOLL	Pittsburgh, Pa.
DOROTHY MAE DRUDGE	Port Richmond
KATHARINE ANN DUDLEY	Arlington
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JOHN SCOTT URBAN, JR.	Harrisburg, Pa.
CAROLYN THERISA WELCH	Hampton
RALPH W. WHEELER, JR.	White Plains, N. Y.
ALEX ROSS-BRYCE WHITE, JR.	Oak Park, Ill.
PATRICIA LEE WHITE	Williamsburg

BACHELORS OF CIVIL LAW

EDMUND LEWIS WALTON, JR.	Williamsburg
A.B., College of William and Mary, 1961	
DONALD GRANT WISE	Portsmouth
B.S., Virginia Military Institute, 1961	

MASTERS OF TEACHING SCIENCE

WILLIAM DAVID APPELBAUM	Somerville, N. J.
A.B., Rutgers University, 1959	
(Chemistry)	
GEORGE L. CRAIG, JR.	Winchester
B.S., University of Maryland, 1951	
(Biology)	
KARL WAYNE FRICK	Wooster, Ohio
B.S. in Ed., Kent State University, 1949	
(Physics)	

- TEDDY G. GATES Fairfax
A.B., Atlantic Christian College, 1959
(Chemistry)
- DORIS EVELYN HAIR Danville
A.B. in Education, Longwood College, 1947
(Mathematics)
- BRUCE PAUL HAMILTON Girard, Pa.
B.S. in Education, Edinboro (Pa.) State
Teachers College, 1957
(Physics)
- JOHN A. HOUSE Staunton
A.B. in Education, University of
North Carolina, 1934
(Physics)
- BETTY LOU JEFFERSON Danville
A.B. in Sec. Education, Longwood College, 1955
(Biology)
- JAMES LOUIS JORDY Dover, Pa.
B.S., The Pennsylvania State
University, 1958
(Mathematics)
- THERESA MCGEE Lenoir, N. C.
B.S., Appalachian State Teachers
College (N. C.), 1959
(Mathematics)
- JOHN A. REIGAR Massillon, Ohio
B.S., Mount Union College, 1931
(Chemistry)

MASTERS OF EDUCATION

- PHOEBE CRANDALL BEST Richmond
A.B., D'Youville College, 1928
- MYRON L. BLANKENSHIP Green Bay
B.S., Virginia Polytechnic Institute, 1960
- CHARLES B. BOLTON Chesapeake
A.B. in Education, University of
North Carolina, 1958
- JANE ELLA BROWN Richmond
A.B., King College, 1955

JAMES CHRISTOPHER CARNEY B.S., University of Illinois, 1961	Petersburg
IRMA PHILLIPS CARTER B.S. in Educ., Madison College, 1960	Chesapeake
ELIZABETH DUNKUM CHARLTON B.S. in Applied Science, Richmond Professional Institute, 1948	Tabb
PATRICIA YOUNG COOKE A.B., Mary Washington College, 1961	Portsmouth
JOE LEE COX B.S. in Physical Education, Norfolk Division of the College of William and Mary, 1959	Virginia Beach
ALBERT LEE CROW B.S., College of William and Mary, 1959	Manassas
JEFFERSON DAVIS A.B., Virginia Military Institute, 1962	Virginia Beach
ANDREW DELLIS A.B., Hunter College of the City of New York, 1960	New York, N. Y.
FRANK HARVEY ELLIOTT A.B., College of William and Mary, 1958	Lynchburg
CATHERINE ANN FIRESTONE B.Ed., University of Miami, 1960	Coral Gables, Fla.
MARY ELIZABETH FOOSHE A.B., Hollins College, 1932	Norfolk
ELIZABETH BAUM HANBURY B.S., Florida Southern College, 1942	Chesapeake
FLORENCE MARSTON HARVEY A.B., Westhampton College, 1936	Norfolk
HILMER O. E. JOHNSON A.B., San Francisco State College, 1928	Fort Eustis
PATRICIA GIVENS JOHNSON B.S., in Education, University of Texas, 1956	Christiansburg
C. LEE MORRIS A.B., Randolph-Macon College, 1951	Rocky Mount
HESTER CHATTIN MOTLEY A.B., College of William and Mary, 1960	Richmond
HELEN L. NEWMAN B.S. in Elementary Education, Norfolk Division of the College of William and Mary, 1957	Norfolk

LILLI MARGRETHE KRESTINE OTTESEN	Sandston
B.S. in Education, Madison College, 1953	
GERALD DOUGLAS PENDLETON	Williamsburg
A.B., College of William and Mary, 1960	
EUGENE FREDERICK PETTIJOHN	Chesapeake
B.S. in Elementary Education, Norfolk Division of the College of William and Mary, 1960	
EMMA JEAN POINTER	Bena
A.B., Winthrop College, 1928	
BERNICE PURCELL	Chesapeake
A.B. in Mathematics, Berea College, 1935	
CLAUDIA SOMERS SCRUGGS	Richmond
A.B., Randolph-Macon Woman's College, 1937	
PHYLLIS S. TATEM	Norfolk
B.S. in Education, Madison College, 1952	
ANNE ELIZABETH TUCKER	Richmond
B.S. in Social Science, Richmond Professional Institute, 1958	
FRANCIS XAVIER WALTON	Pittsburgh, Pa.
B.S. in Social Science, John Carroll University, 1960	

MASTERS OF ARTS

WILLIAM ARTHUR DILLON	Fort Worth, Texas
B.S. in Education, Texas Christian University, 1960 (Marine Science)	
ROBERT OMER FOURNIER	Providence, R. I.
B.S., University of Rhode Island, 1961 (Marine Science)	
ROBERT ASHWORTH KILGORE	Hampton
B.S., Emory and Henry College, 1955 (Physics)	
KENNETH ALLEN LEON	Bena
B.Sc., The Ohio State University, 1960 (Marine Science)	
THOMAS B. MCKEE	Hampton
B.S. in Physics, University of North Carolina, 1950 (Physics)	
JOSEPH NORWOOD, JR.	Williamsburg
B.S. in Physics, University of North Carolina, 1958 (Physics)	

DAVID J. ROMEO

Tabb

B.M.E., Syracuse University, 1958
(Physics)

MASTER OF LAW AND TAXATION

AMOS OVERTON DURRETT, JR.

Kansas City, Mo.

B.S. in Business Administration, University of Missouri, 1954
B.C.L., College of William and Mary, 1960

ENROLLMENT

Session 1963-1964

	<i>Men</i>	<i>Women</i>	<i>Totals</i>
Freshmen.....	435	336	771
Sophomores.....	436	282	718
Juniors.....	272	269	541
Seniors.....	319	233	552
BCL Candidates.....	98	6	104
Master's Candidates.....	115	29	144
Unclassified.....	50	40	90
	<hr/>	<hr/>	<hr/>
	1724*	1195	2919*

GEOGRAPHICAL DISTRIBUTION OF STUDENTS

Session 1963-1964

Alabama.....	2
Arkansas.....	2
California.....	15
Connecticut.....	43
Delaware.....	12
District of Columbia.....	22
Florida.....	35
Georgia.....	13
Illinois.....	18
Indiana.....	7
Iowa.....	6
Kansas.....	3
Kentucky.....	12
Louisiana.....	4
Maine.....	2
Maryland.....	70

*Less duplications—First year BCL Candidates who are also candidates for the Bachelor of Arts.

Massachusetts.....	55
Michigan.....	7
Minnesota.....	6
Mississippi.....	6
Missouri.....	11
Nebraska.....	2
Nevada.....	1
New Hampshire.....	5
New Jersey.....	134
New Mexico.....	1
New York.....	109
North Carolina.....	26
Ohio.....	43
Oklahoma.....	2
Pennsylvania.....	142
Rhode Island.....	9
South Carolina.....	14
South Dakota.....	2
Tennessee.....	12
Texas.....	14
Vermont.....	2
Virginia.....	2007
Washington.....	1
West Virginia.....	14
Wisconsin.....	4
Canada.....	3
England.....	6
Hawaii.....	3
Japan.....	2
Brazil.....	1
Korea.....	1
Cambodia.....	2
China.....	2
India.....	1
Dominican Republic.....	1
Holland.....	1
Australia.....	1
Total.....	2919

Summer Session 1963

	<i>Men</i>	<i>Women</i>	<i>Total</i>
Alabama	3	3	6
Arizona	0	1	1
California	9	3	12
Connecticut	7	1	8
Delaware	2	1	3
Florida	6	5	11
Georgia	3	4	7
Idaho	1	0	1
Illinois	6	1	7
Indiana	3	3	6
Iowa	3	2	5
Kansas	2	1	3
Kentucky	2	2	4
Louisiana	1	0	1
Maine	3	0	3
Maryland	15	9	24
Massachusetts	13	2	15
Michigan	3	4	7
Minnesota	0	2	2
Mississippi	1	3	4
Missouri	3	2	5
Montana	1	0	1
Nebraska	0	1	1
New Jersey	22	5	27
New York	38	5	33
North Carolina	16	20	36
North Dakota	0	1	1
Ohio	16	9	25
Oklahoma	0	5	5
Pennsylvania	43	10	53
Rhode Island	2	0	2
South Carolina	1	5	6
Tennessee	4	2	6
Texas	9	5	14
Utah	1	1	2
Vermont	1	0	1
Virginia	475	602	1077
West Virginia	5	6	11
Wisconsin	2	1	3
Canada	0	1	1
France	1	0	1
Hawaii	0	1	1
Canal Zone	1	0	1
Japan	1	0	1

Geographical Distribution of Students

363

	<i>Men</i>	<i>Women</i>	<i>Total</i>
Germany.....	0	1	1
Argentina.....	0	1	1
Hong Kong.....	2	0	2
	<hr/>	<hr/>	<hr/>
Totals.....	717	731	1448

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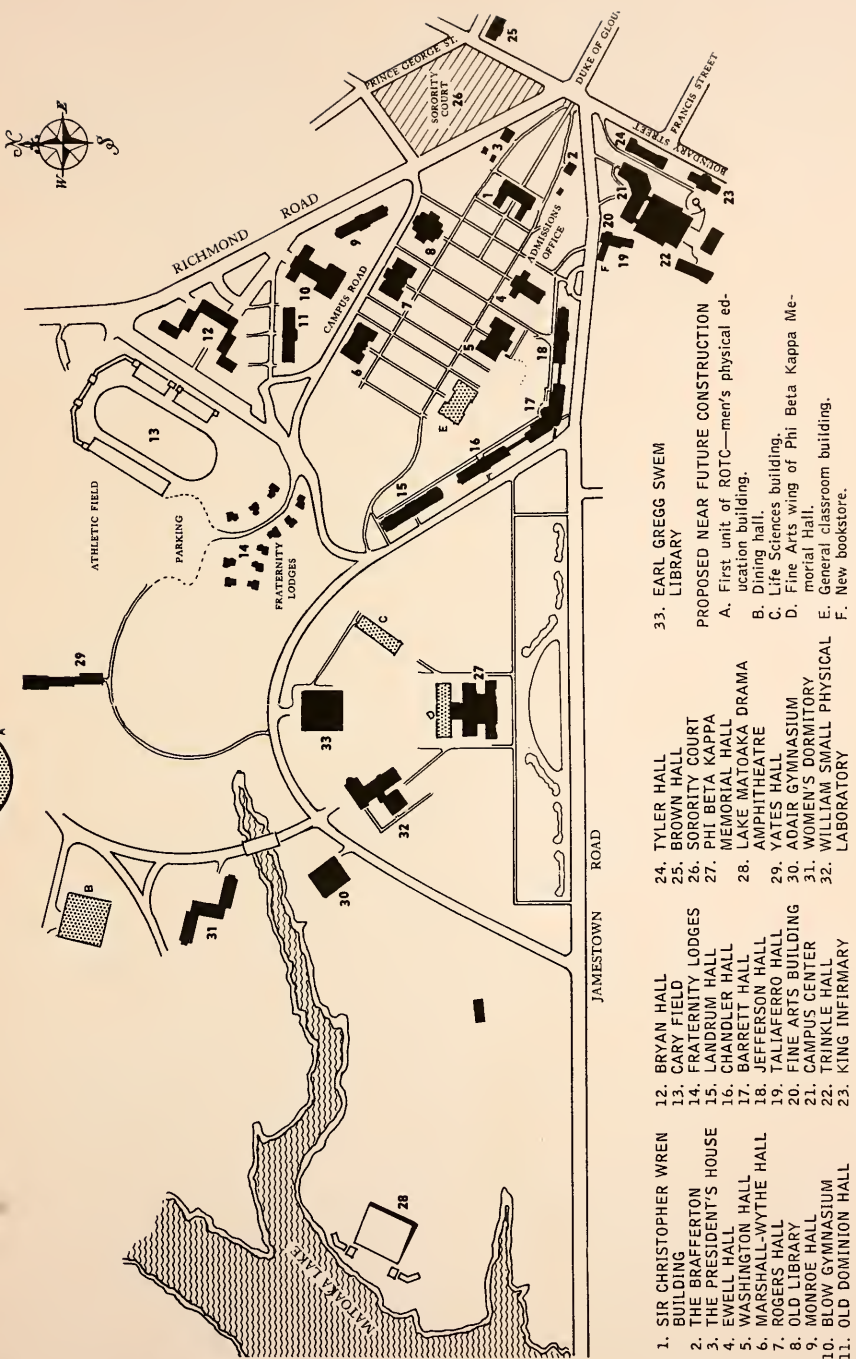
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| 1. SIR CHRISTOPHER WREN BUILDING | 12. BRYAN HALL | 24. TYLER HALL | 33. EARL GREGG SWEM LIBRARY |
| 2. THE BRAFFERTON | 13. CARY FIELD | 25. BROWN HALL | |
| 3. THE PRESIDENT'S HOUSE | 14. FRATERNITY LODGES | 26. SORORITY COURT | PROPOSED NEAR FUTURE CONSTRUCTION |
| 4. EVELL HALL | 15. LANDRUM HALL | 27. PHI BETA KAPPA MEMORIAL HALL | A. First unit of ROTC—men's physical education building. |
| 5. WASHINGTON HALL | 16. CHANDLER HALL | 28. LAKE MATOAKA DRAMA | B. Dining hall. |
| 6. MARSHAL WYTHE HALL | 17. BARRETT HALL | 29. AMPHITHEATRE | C. Life Sciences building. |
| 7. ROGERS HALL | 18. JEFFERSON HALL | 30. YATES HALL | D. Fine Arts wing of Phi Beta Kappa Memorial Hall. |
| 8. OLD LIBRARY | 19. TALLAFERRO HALL | 31. WOMEN'S DORMITORY | E. General classroom building. |
| 9. MONROE HALL | 20. FINE ARTS BUILDING | 32. WILLIAM SMALL PHYSICAL LABORATORY | F. New bookstore. |
| 10. BLOW GYMNASIUM | 21. CAMPUS CENTER | | |
| 11. OLD DOMINION HALL | 22. TRINKLE HALL | | |
| | 23. KING INFIRMARY | | |

