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Madison College (Harrisonburg, Va.)

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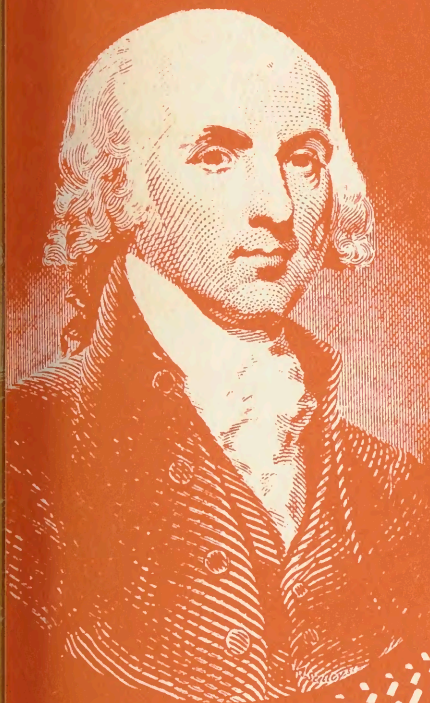
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Harrisonburg, Virginia

# General Catalog 1974-75



Madison  
College  
Bulletin

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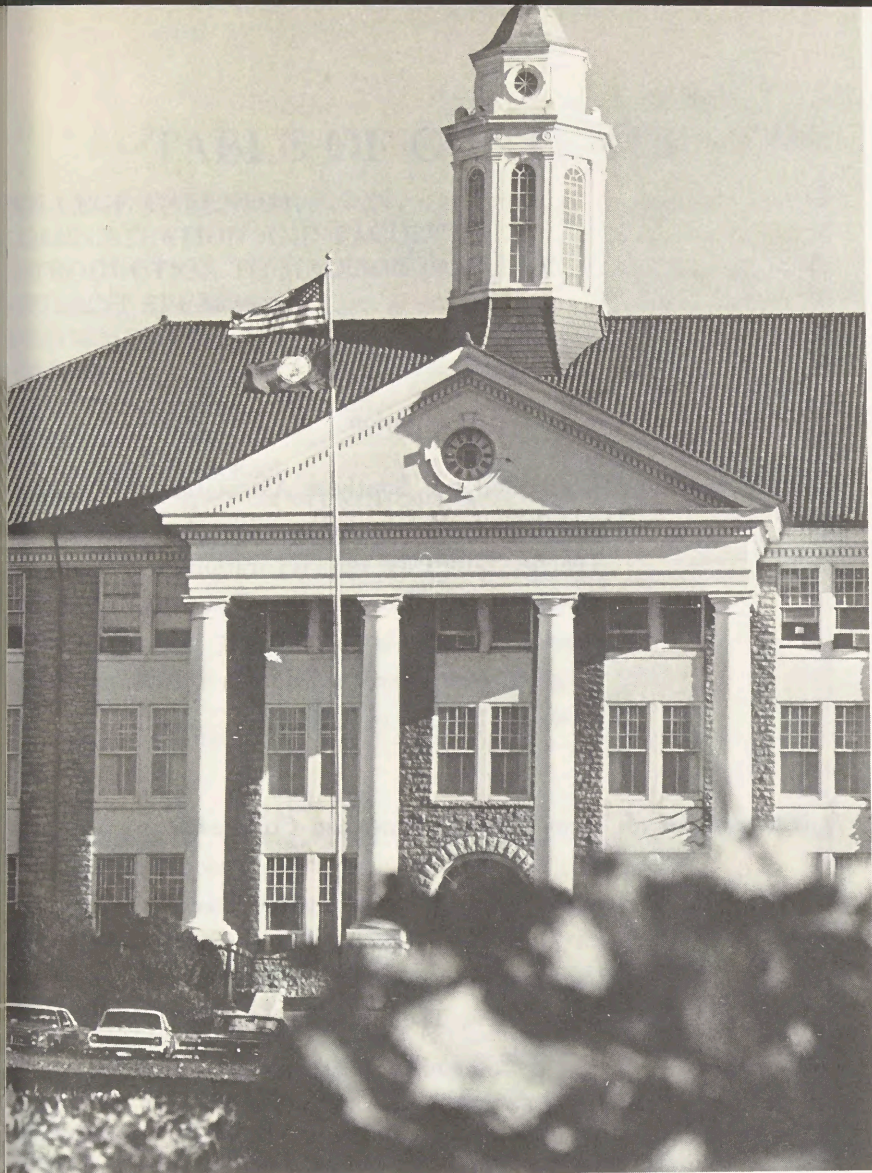
The College can be reached by telephone at all times,  
Harrisonburg (703) 433-6211

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Madison College Bulletin  
Volume XXXII, No. 4

Catalog Issue  
May, 1974

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“The diffusion of knowledge is  
the only guardian of  
true liberty.”

James Madison

MADISON  
COLLEGE

CATALOG ISSUE 1974-75

### *Accreditation*

Madison College is accredited by: Southern Association of Colleges and Schools, National Council for Accreditation of Teacher Education for Preparation of Elementary Teachers and Secondary Teachers with the Master's Degree as the Highest Degree Offered, Virginia State Board of Education, National Association of Schools of Music.

It is a member of: Association of American Colleges, Association of Virginia Colleges, American Association of Colleges for Teacher Education, American Council on Education, National Commission on Accrediting, American Association of State Colleges and Universities, The National Association of Schools of Music.

and a corporate member of: American Association of University Women.

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(SEE BACK COVER FOR HANDY REFERENCE GUIDE)

# COLLEGE CALENDAR 1974-75

## Fall Semester, 1974

### SEPTEMBER—1974

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

### OCTOBER

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

### NOVEMBER

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

Sept. 1—Residence Halls open for Returning Students. Dining Hall opens with evening meal.

Sept. 2—Labor Day—Residence Halls open for New Students 9:00 a.m.

Sept. 2—Registration of Senior, Junior, Evening Session, and Graduate Students.

Sept. 3—Registration of Sophomore, Freshmen, and Transfer Students.

Sept. 4—Classes meet as scheduled.

Sept. 11—Last day on which class changes in schedules may be made without payment of \$5.00 fee. Last day to add a new course to first semester program.

Sept. 26—Last day to drop a first block course with a "W" grade.

Oct. 9—Last day to drop a semester course with a "W" grade.

Oct. 10—Last day to drop a first block course with a "WP" grade.

Oct. 21—College Holiday—Classes do not meet.

Oct. 22—First block courses end.

Oct. 24—Mid-semester grades due in Records Office.

Oct. 24—Classes begin second block courses.

Oct. 26—Homecoming — Parents Day.

Nov. 5—Last day on which class changes in schedules for second block courses may be made without payment of \$5.00 fee.

Nov. 14—Last day to drop a semester course with a "WP" grade.

Nov. 15—Last day to drop a second block course with a "W" grade.

Nov. 27—Thanksgiving vacation begins 5:00 p.m.

DECEMBER

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

- Dec. 1—Residence Halls open. Dining Hall opens with evening meal.  
 Dec. 2—Thanksgiving vacation ends and classes resume.  
 Dec. 6—Last day to drop a second block course with a "WP" grade.  
 Dec. 13—Last day of classes.  
 Dec. 14—Reading Day.  
 Dec. 16-20—Final Examinations.

Spring Semester, 1975

JANUARY—1975

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

- Jan. 12—Residence Halls open 2:00 p.m. Dining Hall opens with evening meal.  
 Jan. 13—Registration of Senior, Junior, Evening Session and Graduate Students.  
 Jan. 14—Registration of Sophomore, Freshmen, and Transfer Students.  
 Jan. 15—Classes meet as scheduled.  
 Jan. 22—Last day on which class changes in schedule may be made without payment of \$5.00 fee. Last day to add a new course to second semester program.

FEBRUARY

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	

- Feb. 5—Last day to drop a third block course with a "W" grade.  
 Feb. 19—Last day to drop a semester course with a "W" grade.  
 Feb. 19—Last day to drop a third block course with a "WP" grade.

- Mar. 4—Third block courses end.  
 Mar. 7—Mid-semester grades due in Records Office.

MARCH

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

- Mar. 7—Mid-semester recess begins 5:00 p.m.  
 Mar. 16—Residence Halls open. Dining Hall opens with evening meal.  
 Mar. 17—Classes resume. Fourth block courses begin.  
 Mar. 21—Celebration of Founders Day (March 14).  
 Mar. 21-Mar. 28—The Fine Arts Festival  
 Mar. 24—Last day on which class changes in schedule for fourth block courses may be made without payment of \$5.00 fee.



APRIL

S	M	T	W	T	F	S
			1	2	3	4 5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

Apr. 4—Last day to drop a fourth block course with a “W” grade.

Apr. 4—Last day to drop a semester course with a “WP” grade.

Apr. 10—Honors Day.

Apr. 10—Last day for making application to the Records Office for degrees to be conferred May, 1975.

Apr. 18—Last day to drop a fourth block course with a “WP” grade.

May 2—Last day of classes.

May 3—Reading Day.

May 5-9—Final Examinations.

May 10—Commencement.

May Session, 1975

MAY

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

May 12—Registration for May Session *only*.

For detailed dates and times, see Schedule of Classes, Summer Session, 1975.

May 13—Classes meet as scheduled.

May 13—Last day to add a course. Last day to change a course without a \$5.00 fee.

May 16—Last day to drop a course with a “W” grade.

May 23—Last day to drop a course with a “WP” grade.

May 30—Final Examinations.

Summer Session, 1975

*First Four-Week Term*

June 15—Residence Halls open 2:00 p.m. Dining Hall opens with evening meal.

June 16—Registration. For detailed dates and times, see Schedule of Classes, Summer Session, 1975.

June 17—Classes meet as scheduled.

June 19—Last day to add a course for the First Four-Week Term.

Last day to change a Four-Week Term course without a \$5.00 fee.

June 26—Last day to drop a Four-Week Term course with a “W” grade.

JUNE

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

JULY

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

- July 4—Holiday. Classes do not meet.
- July 7—Last day to drop a Four-Week Term course with a “WP” grade.
- July 9—Last day for making application to the Records Office for degrees to be conferred August, 1975.
- July 11—Final Examinations for First Four-Week Term courses.

*Eight-Week Term*

- June 15—Residence Halls open 2:00 p.m. Dining Hall opens with evening meal.
- June 16—Course Changes and Registration. For detailed dates and times, see Schedule of Classes, Summer Session, 1975.
- June 17—Classes meet as scheduled.
- June 24—Last day to add a course for the Eight-Week Term. Last day to change an Eight-Week Term course without a \$5.00 fee.
- June 30—Last day to drop an Eight-Week Term course with a “W” grade.
- July 4—Holiday. Classes do not meet.
- July 14—Study Day. Classes do not meet.
- July 15—Last day to drop an Eight-Week Term course with a “WP” grade.
- Aug. 8—Final Examinations.

AUGUST

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

*Second Four-Week Term*

- July 14—Registration. For detailed dates and times, see Schedule of Classes, Summer Session, 1975.
- July 15—Classes meet as scheduled.
- July 17—Last day to add a Second Four-Week Term course. Last day to change a Four-Week Term course without a \$5.00 fee.
- July 22—Last day to drop a Second Four-Week Term course with a “W” grade.
- July 28—Last day to drop a Second Four-Week Term course with a “WP” grade.
- Aug. 8—Final Examinations.
- Aug. 9—Commencement.

1	10	100	1000
2	20	200	2000
3	30	300	3000
4	40	400	4000
5	50	500	5000
6	60	600	6000
7	70	700	7000
8	80	800	8000
9	90	900	9000
10	100	1000	10000

The first part of the book is devoted to a general introduction to the subject of the history of the world. It is divided into two main parts, the first of which is a general history of the world, and the second is a history of the world as it is at present. The first part is divided into three main periods, the first of which is the period of the world as it was in the beginning, the second is the period of the world as it was in the middle, and the third is the period of the world as it is at present. The second part is divided into three main periods, the first of which is the period of the world as it is at present, the second is the period of the world as it was in the middle, and the third is the period of the world as it was in the beginning.

1	10	100	1000
2	20	200	2000
3	30	300	3000
4	40	400	4000
5	50	500	5000
6	60	600	6000
7	70	700	7000
8	80	800	8000
9	90	900	9000
10	100	1000	10000

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THE VISITORS

of Marian College

1911-1912

1911-1912

*Administration  
and Faculty*

Administration  
and Faculty

# THE VISITORS

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BASSETT

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ALEXANDRIA

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 B.S., M.A., University of New Mexico; Ph.D., Utah State University.
- TED L. CHRISTIANSEN *Professor of Special Education*  
 B.S., M.A., University of New Mexico; Ph.D., Utah State University.
- SHARON CHRISTMAN *Instructor of Music*  
 B.Mus., Capital University; M.M., Ball State University.
- PAUL C. CLINE *Professor of Political Science*  
 A.B., J.D., M.A., West Virginia University; Ph.D., American University.
- W. DEAN COCKING *Assistant Professor of Biology*  
 B.A., Pomona College; M.S., Cornell University; Ph.D., Rutgers University.

- HOWARD R. COHEN *Assistant Professor of Spanish*  
B.A., M.A., University of Alabama.
- RALPH ALAN COHEN *Assistant Professor of English*  
A.B., Dartmouth College; M.A., Ph.D., Duke University.
- JESSE COLLINS, JR. *Instructor of Art*  
B.F.A., Indiana University; M.F.A., University of Wisconsin.
- LEE W. CONGDON *Assistant Professor of History*  
A.B., Wheaton College; M.A., Ph.D., Northern Illinois University.
- JAMES N. CONIS *Professor of Spanish*  
B.S., M.A., Ph.D., University of Virginia.
- BURTON J. CONWAY *Assistant Professor of Physics*  
B.S., Virginia Military Institute; M.S., United States Naval Post-graduate School, Monterey, California.
- JAMES V. COUCH *Assistant Professor of Psychology*  
B.A., Trinity University; M.A., Ph.D., University of Massachusetts at Amherst.
- JERRY L. COULTER *Associate Professor of Art*  
B.A., Furman University; M.F.A., Ohio University.
- PAULINE E. COUNCIL *Associate Professor of Sociology*  
A.B., M.S., Ph.D., The Florida State University.
- JAMES H. CRABLE *Assistant Professor of Art*  
B.S., State University College at Buffalo, New York; M.F.A., Rochester Institute of Technology; H.D.A., Chelsea School of Art, London.
- MARILYN CRAWFORD *Head, Department of Physical and Health Education; Professor of Physical and Health Education*  
B.S., Woman's College of the University of North Carolina; M.A., University of North Carolina; Ed.D., University of Texas.
- SAMUEL G. CROSS *Assistant Professor of Music*  
B.M., M.M., University of Texas.
- GARY P. CROWTHER *Associate Professor of Chemistry*  
B.A., Thiel College; Ph.D., Duke University.
- DONNA LEA CYPRET *Instructor of Music*  
B.M.E., M.M.E., Wichita State University.

N. JEAN DALTON

*Instructor of Physical and  
Health Education*

B.S., University of North Carolina-Greensboro; M.S., University of Washington.

LACY STRATTON DANIEL

*Counseling Psychologist;  
Assistant Professor of Psychology*

B.A., Southwestern at Memphis; M.A., Memphis State University; Ph.D., University of Texas.

GARNEY L. DARRIN

*Professor of Education*

B.S., M.Ed., Wayne State University; M.A., Madison College; Ed.D., University of Maryland.

JOHN EDWARD DAVIS, JR.

*Professor of Biology*

B.A., M.A., Ph.D., University of Virginia.

JOHN W. DAVIS

*Associate Professor of Education*

B.S., Northwestern State College; M.Mu.Ed., Louisiana State University; Ed.D., University of Southern Mississippi.

BENJAMIN A. DEGRAFF, JR.

*Head, Department of Chemistry;  
Associate Professor of Chemistry*

B.A., Ohio Wesleyan; M.S., Ph.D., The Ohio State University.

MILDRED DICKERSON

*Assistant Professor of Education*

B.S., Eastern Kentucky State College; M.S., University of Kentucky.

Z. S. DICKERSON, JR.

*Head, Department of Business Education-  
Office Administration; Professor of Business Education*

B.S., Eastern Kentucky State College; M.A. in Ed., Ed.D., University of Kentucky.

JOHN DAVID DILLER

*Head, Department of Art;  
Professor of Art*

B.F.A., University of Texas; M.F.A., Cranbrook Academy of Art; Ph.D., The Ohio State University.

RAYMOND C. DINGLEDINE, JR.

*Head, Department of History;  
Professor of History*

B.A., M.A., Ph.D., University of Virginia.

ELIZABETH ELLEN DOWNEY

*Catalog Librarian*

B.S., Madison College; B.S. in L.S., George Peabody College for Teachers.

- JACQUELINE D. DRIVER *Assistant Professor of Psychology*  
B.S., M.A. in Ed., Madison College.
- CHARLES WALTER DUBENEZIC *Assistant Professor of Education*  
B.A., Rutgers University; M.A., Washington University (Missouri);  
Ed.D., University of Massachusetts.
- LARRY L. DYER *Head, Department of Special Education Services;*  
*Associate Professor of Special Education*  
B.A., Upland College; M.S.Ed., Southern Illinois University; Ed.D.,  
Indiana University.
- MARILYN A. DYER *Instructor of Psychology*  
B.A., Upland College; M.S., Southern Illinois University.
- JAMES A. EBY, JR. *Assistant Professor of English*  
B.A., M.A., Miami University of Ohio; Ph.D., University of Michi-  
gan.
- O. DEAN EHLERS *Director of Athletics;*  
*Assistant Professor of Physical and Health Education*  
B.S., Central Methodist College (Missouri); M.Ed., University of  
Missouri.
- MARIAN RUTH EMERSON *Associate Professor of Home Economics*  
B.S., Syracuse University; M.S., Ph.D., Michigan State University.
- JOSEPH D. ENEDY *Assistant Professor of Geography*  
B.S., Lock Haven State College; M.S., Eastern Michigan University;  
Ph.D., Kent State University.
- WAYNE E. ENGEL *Professor of Psychology*  
B.A., Capital University; M.A., Kent State University; Ph.D., Uni-  
versity of Minnesota.
- GEORGE T. FARMER, JR. *Associate Professor of Geology*  
B.A., M.S., University of Virginia; Ph.D., University of Cincinnati.
- EILEEN FARNEN *Instructor of Psychology*  
A.B., Syracuse University; M.A., George Peabody College for  
Teachers.
- RUSSELL F. FARNEN, JR. *Head, Department of Political Science*  
*and Geography; Professor of Political Science*  
B.S., Connecticut State College; M.A., Ph.D., Syracuse University.

- GERALD W. FARRAR *Assistant Professor of English*  
A.B., Marietta College; M.A., University of Virginia.
- ELLEN P. FELDMAN *Instructor of Physical and Health Education*  
B.A., State University of New York at Binghamton; M.A., University of Wisconsin.
- BILLIE N. FINLAY *Assistant Professor of Library Science*  
B.S., Mississippi State College for Women; M.S. in L.S., Louisiana State University.
- ELIZABETH M. FINLAYSON *Dean of Summer School; Director of Orientation and Academic Advising; Assistant Professor of Education*  
B.S., M.S., University of Wisconsin; Ed.D., George Washington University.
- ROBERT GEORGE FINNEY *Professor of Communication Arts*  
A.B., Marietta College; M.A., Ph.D., The Ohio State University.
- GORDON M. FISHER *Professor of Mathematics*  
B.A., University of Miami; Ph.D., Louisiana State University.
- J. ELWOOD FISHER *Associate Professor of Biology*  
B.S., Fairmont State College; M.S., Miami University, Ohio; Ph.D., Virginia Polytechnic Institute.
- KOY M. FLOYD *Associate Professor of Education*  
B.S., M.T., East Central State; Ed.S., Ph.D., The University of New Mexico.
- LAWRENCE M. FOLEY *Associate Professor of English*  
B.S., Auburn University; M.A., Ph.D., University of Alabama.
- BETTE D. FOX *Professor of Political Science*  
B.A., Western Reserve University; M.A., Brown University; Ph.D., Case Western Reserve University.
- DAVID E. FOX *Professor of Education*  
B.S., State University College at Geneseo, New York; M.A., Ed.D., Teachers College, Columbia University.
- MAE M. FRANTZ *Assistant Professor of Communication Arts*  
A.B., Mississippi State College for Women; M.A., University of Mississippi.



- MICHAEL R. FRATELLO *Instructor of Physical and Health Education*  
B.A., Montclair State College.
- JOAN FREDERICK *Assistant Professor of English*  
B.A., Mary Washington College; M.A., Ph.D., University of Tennessee.
- JAY L. FUNSTON *Associate Professor of English*  
A.B., Rutgers University; M.A., Columbia University; Ph.D., University of Arizona.
- NORMAN E. GARRISON *Assistant Professor of Biology*  
B.S., Mars Hill College; M.A., Wake Forest University; M.S., Ph.D., University of Massachusetts.
- ROBERT F. GEARY, JR. *Assistant Professor of English*  
B.A., Boston College; M.A., Ph.D., University of Virginia.
- LOIS E. GEIL *Assistant Professor of Physical and Health Education*  
B.S. in Ed., M.S. in Ed., Madison College.
- FRANK A. GEROME *Associate Professor of History*  
B.A., The Ohio State University; M.A., Ph.D., Kent State University.
- JOHN R. GORDON *Assistant Professor of Physics*  
B.S. in Ed., University of Virginia; M.Ed., University of North Carolina; M.S., Louisiana State University.
- MARGARET A. GORDON *Assistant Professor of Biology*  
B.S. in Ed., Madison College; M.A., University of Virginia.
- TONY GRAHAM *Associate Professor of Education*  
A.B., Pembroke State University, North Carolina; M.A., East Carolina University; Ed.D., University of Alabama.
- CHARLOTTE KAYE GRAVES *Instructor of Business Education-Office Administration*  
B.S., Mississippi College; M.S., The University of Tennessee.
- ROBERT A. GRAVES *Assistant Professor of Biology*  
B.S. in Ed., M.S., Madison College.
- JAMES K. GRIMM *Professor of Biology*  
B.S. in Ed., Concord College; M.S., Ph.D., University of Tennessee.

- MARY F. HABAN *Head, Department of Library Science;  
Associate Professor of Library Science*  
B.A., College of Mount St. Joseph (Ohio); M.L.S., Carnegie Institute  
of Technology; Ph.D., University of Pittsburgh.
- ARTHUR R. HALL *Professor of Geography*  
B.A., M.A., University of Oklahoma; Ph.D., Duke University.
- DANIEL R. HALL *Director, Center for Economic Education;  
Professor of Economics*  
B.A., Wesleyan University; M.A., D.Ed., Columbia University.
- WILLIAM O. HALL *Vice President for Student Affairs;  
Professor of Education and Psychology*  
B.S.C., Ohio University; M.A., Ed.D., University of Kentucky.
- CLIVE R. HALLMAN, JR. *Assistant Professor of History*  
A.B., Berry College; M.A., Appalachian State Teachers College.
- DAVID A. HALLMAN *Associate Professor of English*  
B.A., Vanderbilt University; M.A., Memphis State University; Ph.D.,  
Duke University.
- MARIO HAMLET-METZ *Associate Professor of French*  
Profesor de Estado (France), University of Chile; Ph.D., University  
of Virginia.
- DAVID P. HANSON *Head, Department of Psychology;  
Professor of Psychology*  
A.B., Hope College; M.Ed., Springfield College; D.Ed., Rutgers Uni-  
versity.
- JOHN R. HANSON *Professor of Mathematics*  
A.B., Washington and Lee University; M.S., Ph.D., Virginia Poly-  
technic Institute.
- WILBUR T. HARNSBERGER, JR. *Head, Department of Geology;  
Associate Professor of Geology*  
B.A., M.S., University of Virginia.
- BETTE L. HARRIS *Assistant Professor of Physical and  
Health Education*  
B.S., Madison College; M.A., Sam Houston State College.
- CHARLES M. HARRIS *Associate Professor of Psychology*  
B.A., M.A., B.D., Bob Jones University; Ph.D., The Ohio State Uni-  
versity.

- MALCOLM B. HARRIS *Assistant Professor of Music*  
B.S., University of Missouri; M.A., West Texas State University.
- JAMES J. HART *Professor of Psychology*  
B.A., Western Michigan University; M.A., Ph.D., University of Missouri.
- GERALD R. HASKINS *Assistant Professor of Communication Arts*  
A.B., M.S., Indiana State University.
- REBECCA HAWKINS *Assistant Professor of Art*  
B.F.A., M.F.A., University of North Carolina at Greensboro.
- MARK D. HAWTHORNE *Head, Department of English;*  
*Professor of English*  
B.A., Wake Forest College; M.A., Ph.D., University of Florida.
- JERRY O. HAYNES *Professor of Psychology*  
B.S., M.S., Auburn University; Ph.D., Florida State University.
- JOHN BARRY HAYNES *Assistant Professor of Physical and*  
*Health Education*  
A.B., Duke University; M.A., Ph.D., University of North Carolina at Chapel Hill.
- JACK M. HEADING *Assistant Professor of Biology*  
B.S., Juniata College; M.S., Pennsylvania State University.
- WALTER HEEB, JR. *Director of Instructional Media;*  
*Assistant Professor of Education*  
B.S., M.A., East Tennessee State University.
- CARY S. HENDERSON *Associate Professor of History*  
B.A., M.A., University of Florida; Ph.D., Duke University.
- NATHANIEL T. HENLEY *Assistant Professor of Business*  
*Administration-Economics*  
B.G.E., University of Nebraska; J.D., University of Arkansas.
- BILLY J. HINTON *Professor of Finance and Real Estate*  
B.A., M.A., Baylor University; Ph.D., Louisiana State University.
- OREST HOLOVATY *Assistant Professor of Russian and German*  
B.A., DePaul University; M.A., University of Illinois.
- JANET HOPKINS *Assistant Professor of Education*  
B.S. in Ed., Madison College; M.Ed., University of Virginia.
- MARGARET F. HORN *Assistant Professor of Physical and*  
*Health Education*  
B.A., Bridgewater College; M.S. in Ed., Madison College.

- ROBERT H. HORN *Coordinator of Student Teaching;  
Assistant Professor of Education*  
B.A., Bridgewater College; M.Ed., University of Virginia.
- ROBERT V. HOSKINS, III *Assistant Professor of English*  
B.A., Yale University; M.A., Ph.D., University of Kentucky.
- WILEY THOMAS HURT *Associate Professor of Physical and  
Health Education*  
B.S.Ed., Austin Peay State University; M.P.H., University of North  
Carolina; Ed.D., The University of Nebraska.
- CHARLENE D. INGLES *Instructor of Music*  
B.M., University of Wisconsin; M.M., University of Missouri.
- HELEN V. ININGER *Associate Professor of Music*  
A.B., Wilson College; M.M., Eastman School of Music; M.M., Uni-  
versity of Michigan; L.R.A.M., Piano Performance, Royal Academy  
of Music, London, England; International Summer Academy, Salz-  
burg, Austria.
- WILLIAM P. JACKAMEIT *Director of Institutional Research;  
Assistant Professor of Education*  
A.B., M.A., Rutgers University; M.Ed., Ed.D., The College of Wil-  
liam and Mary.
- BETTY FAITH JAYNES *Assistant Professor of Physical and  
Health Education*  
B.S., Woman's College of Georgia; M.S., University of North Caro-  
lina at Greensboro.
- MARIE M. JENKINS *Professor of Biology*  
B.A., Phillips University; M.S., Catholic University of America;  
Ph.D., University of Oklahoma.
- LILLIAN P. JENNINGS *Assistant Dean, School of Education;  
Professor of Education and Psychology*  
B.S., Youngstown State University; M.Ed., Ph.D., University of Pitts-  
burgh.
- WILLIAM F. JONES *Associate Professor of Biology*  
B.A., Davis and Elkins College; M.S. in Ed., Madison College; Ed.D.,  
University of Virginia.
- CHESTER I. JORDAN *Assistant Professor of Communication Arts*  
B.A., Emory and Henry College; M.A., University of Wyoming.
- GEORGE FRANCIS JOYCE *Assistant Professor of Education*  
B.S., M.S., State University College of Oswego, New York.
- F. RITA KASLOW *Associate Professor of Education*  
B.S., New York University; M.Ed., Ed.D., University of Virginia.

- JOHN A. KAUFHOLD *Assistant Director of Records*  
B.S., West Chester State College; M.Ed., University of Virginia.
- MARGARET S. KEMPTON *Assistant Professor of Mathematics*  
B.S. in Ed., The Ohio State University; M.S., Florida State University.
- JAMES E. KIDD, JR. *Associate Professor of Special Education*  
A.B., Olivet Nazarene College; M.A., Marshall University; Ed.D., University of Virginia.
- JULIA KILPATRICK *Professor of Home Economics*  
B.S. in Ed., University of Missouri; M.S., Iowa State University; D.Ed., The Pennsylvania State University.
- CLARK D. KIMBALL *Associate Professor of Communication Arts*  
B.A., Butler University; Ph.D., Indiana University.
- ALGIN B. KING *Head, Department of Business Administration-Economics; Professor of Business Administration*  
A.B., University of South Carolina; M.S., New York University; Ph.D., The Ohio State University.
- MARY KATHRYN KING *Periodicals Librarian*  
B.A., Eastern Mennonite College; M.S. in L.S., Drexel Institute of Technology.
- PAUL H. KIPPS *Associate Professor of Economics*  
B.S., M.S., Virginia Polytechnic Institute; Ph.D., Cornell University.
- CAROL LEE KNIEBUSCH *Assistant Professor of Music*  
B.M.Ed., Illinois Wesleyan University; M.M., Indiana University.
- ROBERT E. KRIBEL *Head, Department of Physics; Associate Professor of Physics*  
B.S., University of Notre Dame; M.S., Ph.D., University of California.
- HAYES KRUGER *Assistant Professor of Physical and Health Education*  
B.S., M.P.E., Springfield College (Massachusetts).
- JAMES W. KUHNS *Associate Professor of Psychology*  
A.B., Goshen College (Indiana); M.Ed., Ed.D., Temple University.
- S. JAMES KURTZ *Associate Professor of Music*  
B.A., M.A., New York University; Ph.D., University of Iowa.
- RINEHART E. KYLER *Associate Professor of Foreign Languages*  
B.A., Luther College (Iowa); M.A., Ph.D., Yale University.

SALLY M. LANCE *Assistant Professor of Music*  
B.M.Ed., Madison College; M.M., Indiana University.

C. KENNETH LANDES *Director, Anthony-Seeger Campus School;*  
*Assistant Professor of Education*  
B.A., Bridgewater College; M.Ed., University of Virginia.

MARILYN C. LAZORACK *Assistant Professor of Mathematics*  
B.S., M.S. in Ed., Madison College; M.A., University of Illinois.

JAMES JOSEPH LEARY *Assistant Professor of Chemistry*  
A.B., Rutgers, The State University (Newark); Ph.D., University of  
North Carolina (Chapel Hill).

HAROLD D. LEHMAN *Professor of Education*  
B.S., Madison College; M.Ed., The Pennsylvania State University;  
Ed.D., University of Virginia.

THOMAS W. LEIGH *Associate Professor of English*  
B.A., Hampden-Sydney College; M.A., University of Michigan.

ROBERT L. LEMBRIGHT *Assistant Professor of History*  
B.A., Miami University of Ohio; M.A., The Ohio State University.

STINSON H. LENKERD *Assistant Professor of Mathematics*  
B.A., Florida State University; M.A., University of Virginia.

TERRY ALAN LEPERA *Assistant Professor of Mathematics*  
B.A., Texas Western College; M.S., University of Minnesota.

JESSE STUART LILES *Associate Professor of Education*  
A.B., Duke University; M.Ed., The College of William and Mary;  
Ed.D., Duke University.

ROBERT LISLE *Professor of Classics*  
A.B., Harvard University; A.M., Ph.D., The Johns Hopkins Univer-  
sity.

LOUIS G. LOCKE *James Madison Distinguished Professor;*  
*Professor of English*  
A.B., Bridgewater College; M.A., George Washington University;  
A.M., Ph.D., Harvard University.

MARY LOUISE LOE *Assistant Professor of History*  
B.A., University of Wisconsin; M.A., Columbia University.

- R. DUANE LOGUE *Director, Speech and Hearing Center;  
Professor of Special Education*  
B.S., Colorado State University; M.S., Purdue University; Ph.D.,  
Purdue University.
- RICHARD A. LYCZAK *Assistant Professor of Psychology*  
A.B., Ph.D., Dartmouth College.
- ALLEN W. LYNDRUP *Instructor of Communication Arts*  
B.A., Wartburg College; M.F.A., University of Georgia.
- JOHN T. LYON, JR. *Professor of Music*  
B.S. in Mus.Ed., University of New Hampshire; M.A., Teachers  
College, Columbia University; Ph.D., Indiana University.
- CARTER GEORGE LYONS *Assistant Professor of Mathematics*  
B.A., University of St. Thomas; M.S., Ph.D., Texas A & M University.
- DONALD L. MCCONKEY *Head, Department of Communication Arts;  
Professor of Communication Arts*  
B.S. in Ed., Illinois State University; M.A., Ph.D., The Ohio State  
University.
- DANIEL M. MCFARLAND *Professor of History*  
A.B., University of North Carolina; M.A., Ph.D., University of Penn-  
sylvania.
- KIRBY LEE MCGOWN *Assistant Professor of Business  
Administration-Economics*  
B.S., M.B.A., Lamar Tech University.
- JON WILLIAMS MCINTIRE *Director, Counseling Center;  
Assistant Professor of Psychology*  
B.S., Michigan State University; Ph.D., University of Texas at Austin.
- JOHN E. MCKEE *Assistant Professor of Psychology*  
B.S.E., M.S.E., The Kansas State Teachers College; Ed.D., Indiana  
University.
- THOMAS MCLAUGHLIN *Reference Librarian*  
B.A., Fairleigh Dickson University; M.L.S., Rutgers University.
- THOMAS BRUCE MCLEAN *Associate Professor of Mathematics*  
B.S. in Ed., Ohio Northern University; M.A., Bowling Green Univer-  
sity; Ph.D., University of Kentucky.

- CHALLACE J. McMILLIN *Instructor of Physical and  
Health Education*  
B.S., Southwestern University.
- WILLIAM J. McMURRAY *Professor of English*  
B.A., Middlebury College; M.A., University of Illinois; Ph.D., Uni-  
versity of New Mexico.
- ROBIN McNALLIE *Assistant Professor of English*  
B.A., St. Lawrence University; M.A., Princeton University.
- RICHARD E. McPHERSON *Associate Professor of Music*  
B.Mus., University of Michigan; M.Mus., Wichita State University;  
A.Mus.D., University of Michigan.
- EARLE JAY MAIMAN *Instructor of Communication Arts*  
B.S., Ohio University; M.A., The University of Wisconsin, Mil-  
waukee.
- GEORGE W. MARRAH *Associate Professor of Mathematics*  
B.S., University of Rhode Island; M.S., Ph.D., Clemson University.
- CAROLINE T. MARSHALL *Associate Professor of History*  
B.A. in Ed., Madison College; M.A., Ph.D., University of Virginia.
- RAMEY J. MARTIN *Associate Professor of Physical and  
Health Education*  
B.S., B.S. in Ed., M.A. in Ed., Western Carolina University; Ed.D.,  
University of Georgia.
- H. ALLEN MAYNARD, JR. *Assistant Professor of Business  
Education-Office Administration*  
B.S., M.A., Appalachian State University.
- VERNON C. MECHTENSIMER *Assistant Professor of Political Science*  
A.B., Wittenberg University; M.A., The American University.
- SHIRLEY B. MERLIN *Associate Professor of Education;  
Director of the Reading Center*  
B.A., Waynesburg College; M.A., Ed.D., West Virginia University.
- SIEGFRIED S. MEYERS *Professor of Physics*  
B.S., M.A., Ph.D., New York University.
- ALLEN R. MICKELSEN *Associate Professor of Economics*  
B.A., Brigham Young University; M.S., University of Utah; Ph.D.,  
University of Virginia.



- EARLYNN JOY MILLER *Associate Professor of Physical and Health Education*  
B.S., in Ed., Illinois State University; M.F.A., Ed.D., University of North Carolina at Greensboro.
- KEVIN G. MILLER *Assistant Professor of Business Administration*  
B.S., M.S. in Ed., Madison College; C.P.A.
- NAOMI LOUISE MILLS *Assistant Professor of Physical and Health Education*  
B.A. in Ed., M.S., Arizona State University.
- NEIL B. MILLS *Professor of Economics*  
B.S., Cornell University; B.S., University of Hawaii; M.S., Ph.D., The Ohio State University.
- HARRY KENT MOORE *Associate Professor of Physics and Education*  
B.S., Manchester College; Ed.M., Harvard University; M.S., Ph.D., The Ohio State University.
- HELEN E. MOORE *Assistant Professor of Psychology*  
B.A., Manchester College; M.A. in Ed., Madison College.
- GEOFFREY F. MORLEY-MOWER *Assistant Professor of English Inter-Arts, London University; M.A., Catholic University.*
- JOHN T. MORELLO *Instructor of Communication Arts*  
A.B., The College of William and Mary; M.A., Northern Illinois University.
- ROBERT C. MORRIS, SR. *Assistant Professor of Special Education*  
B.S., M.Ed., University of Virginia.
- L. LEOTUS MORRISON *Associate Director for Women's Intercollegiate Athletics; Professor of Physical and Health Education*  
B.S. in Ed., Georgia State College for Women; M.A., George Peabody College for Teachers; P.E.D., Indiana University.
- FREDERICK C. MORTIMER *Assistant Professor of Geography*  
B.S., University of Rhode Island; M.A., East Carolina University.
- JOHN P. MUELLER *Lecturer in Communication Arts*  
B.A., Madison College.
- JAMES L. MULLENEX *Associate Professor of Mathematics*  
B.S., Madison College; M.A., Louisiana State University; Ed.D., University of Virginia.

JOHN P. MUNDY

*Dean of Graduate School;  
Director of Administrative Affairs;  
Professor of Psychology*

B.A., Bridgewater College; M.A., University of Virginia; Ph.D.,  
George Washington University.

HENRY A. MYERS

*Professor of Political Science*

B.A., Swarthmore College; M.A., Boston University; Ph.D., Brandeis  
University.

JANE W. MYERS

*Assistant Professor of Physical and  
Health Education*

B.S., M.S. in Ed., Madison College.

ROSAMOND ANN MYERS

*Instructor of Sociology*

B.S., Madison College; M.S.W., University of North Carolina at  
Chapel Hill.

CHARLES R. NEATROUR

*Professor of Education*

B.S., University of Richmond; M.S. in Ed., Madison College; M.A.,  
Louisiana State University; Ed.D., Indiana University.

ELIZABETH B. NEATROUR

*Head, Department of Foreign Languages;  
Associate Professor of Russian and French*

B.A., Mary Washington College; M.A. in Ed., Madison College;  
Recipient of Certificat D'Etudes Francaises from L'Universite de  
Paris; M.A., Ph.D., Indiana University.

ALAN NECKOWITZ

*Assistant Professor of Communication Arts*

B.A., Rutgers University; M.A.; University of Connecticut.

CAMERON C. NICKELS

*Assistant Professor of English*

B.A., Fort Hays State College; M.A., Southern Illinois University;  
Ph.D., University of Minnesota.

PETER T. NIELSEN

*Associate Professor of Biology*

B.S., Duke University; Ph.D., University of North Carolina at Chapel  
Hill.

MARTHA L. O'DONNELL

*Assistant Professor of Physical and  
Health Education*

B.S., Longwood College; M.S. in Ed., Madison College.

RUTH C. O'GORMAN

*Acquisitions Librarian*

B.A., B.S., M.S. in Librarianship, Kansas State Teachers College.

- NANCY K. O'HARE *Associate Professor of Special Education*  
B.A., Seton Hill College; M.Ed., University of Pittsburgh; Ph.D.,  
University of Virginia.
- GORDON L. OHLSSON *Head, Department of Music;*  
*Professor of Music*  
B.A., B.M., Hastings College; M.A., Ed.D., Teachers College, Colum-  
bia University.
- GLORIA B. OLIVAS *Assistant Professor of Business Administration*  
*and Economics*  
B.S.B.A., University of the Philippines; M.S., University of Wisconsin.
- ROMEO A. OLIVAS *Associate Professor of Psychology*  
B.A., M.A., Philippine Christian College; Ph.D., Northwestern Uni-  
versity.
- WILLIAM M. O'MEARA *Associate Professor of Philosophy*  
B.A., M.A., Ph.D., Loyola University.
- FORREST C. PALMER *Professor of Library Science*  
B.A., Valparaiso University; B.S. in L.S., M.S. in L.S., George Pea-  
body College for Teachers.
- FRANK A. PALOCSAY *Associate Professor of Chemistry*  
B.S., Ohio University; Ph.D., The University of Arizona.
- HERBERT T. PATTERSON, III *Assistant Professor of*  
*Communication Arts*  
B.A., Hiram College; M.A., Western Reserve University.
- MARION L. PERKINS *Professor of Music*  
B.A., M.A., University of Minnesota; Ph.D., University of Southern  
California.
- MILTON PERLMAN *Assistant Professor of French and Latin*  
B.A., St. Johns College; M.A.T., University of Virginia; Diplome de  
Hautes Etudes, University of Grenoble.
- ANNA RUTH PERRY *Assistant Catalog Librarian*  
A.B., Marshall University; M.A., Presbyterian School of Christian  
Education; M.S.L.S., Florida State University.
- JANIS G. PIVARNIK *Assistant Reference Librarian*  
B.A., M.L.S., Indiana University.

- JAMES E. POINDEXTER *Professor of English*  
 A.B., University of North Carolina; M.A., Emory University; Ph.D.,  
 University of North Carolina.
- WILLIAM L. POWELL *Associate Professor of Business Education*  
 B.S., M.Ed., Miami University of Ohio; Ph.D., University of Pitts-  
 burgh.
- WILLIAM C. PRIGGE *Dean of Instructional Improvement and Delivery;*  
*Professor of Education*  
 B.S., Lakeland College; M.S., University of Wisconsin; Ed.D., In-  
 diana University.
- RAYMOND PRINCE, III *Associate Professor of Economics*  
 B.A., Rice University; Ph.D., University of North Carolina at Chapel  
 Hill.
- JOHN W. RADER *Associate Professor of Physical and*  
*Health Education*  
 B.A., Bridgewater College; M.S., University of Illinois; M.S., Ed.D.,  
 University of Oregon.
- JACKSON EUGENE RAMSEY *Assistant Professor of Business*  
*Administration-Economics*  
 B.S., University of Cincinnati; M.B.A., State University of New  
 York at Buffalo.
- ANGELA S. REEKE *Associate Professor of Education*  
 B.S., Paterson State College; M.Ed., Ed.D., University of Virginia.
- JAMES RUSSELL RESPRESS *Instructor of Communication Arts*  
 B.A., M.A., Michigan State University.
- FAY J. REUBUSH *Dean of Student Services;*  
*Professor of Psychology*  
 B.A., Bridgewater College; M.Ed., Ed.D., University of Virginia.
- FELSIE K. RIDDLE *Assistant Professor of Library Science*  
 A.B., Guilford College; B.A. in L.S., University of North Carolina.
- ROBERT O. RIGGS *Associate Dean, School of Education;*  
*Associate Professor of Education*  
 B.A., Vanderbilt University; M.Ed., Ed.D., Memphis State Univer-  
 sity.
- PHILIP F. RILEY *Assistant Professor of History*  
 A.B., A.M., Ph.D., University of Notre Dame.

- JULIUS B. ROBERSON *Dean, Admissions and Records;  
Professor of Education*  
B.S., M.A., Memphis State University; Ed.D., The University of Tennessee.
- WILLIAM P. ROBERTS *Assistant Professor of Geology*  
B.S., University of Texas at Austin; M.S., Ph.D., The George Washington University.
- LAWRENCE W. ROLLER *Associate Professor of Education*  
B.S., M.Ed., Springfield College (Massachusetts); Ed.D., University of Virginia.
- DOROTHY ROWE *Head, Department of Home Economics;  
Professor of Home Economics*  
B.S., Madison College; M.S., Ph.D., The Ohio State University.
- JAMES L. RUFF *Associate Professor of English*  
B.A., Carleton College; M.A., Ph.D., Northwestern University.
- ROSE MARY RUMMEL *Associate Professor of Physical and  
Health Education*  
B.S., Lamar State College; M.A., Sam Houston State College; Ph.D., University of Texas at Austin.
- O. GRANT RUSH *Director of Continuing Education and Field Services;  
Professor of Education*  
B.A., Bridgewater College; M.Ed., Ed.D., University of Virginia.
- BIJAN SAADATMAND *Associate Professor of Home Economics*  
B.S., M.S., Ph.D., Brigham Young University.
- WILLIAM M. SANDERS *Head, Department of Mathematics;  
Professor of Mathematics*  
B.S., State College of Arkansas; M.A., University of Arkansas; Ph.D., University of Illinois.
- MARY L. SCHELL *Assistant Professor of Physical and  
Health Education*  
A.B., Catawba College; M.A., George Peabody College.
- MARJORIE SCHERWITZKY *Professor of Education*  
B.S., Teachers College of Connecticut; M.A., Ed.D., Teachers College, Columbia University.

- CLETUS M. SELLERS, JR. *Assistant Professor of Biology*  
 B.A., Hampden-Sydney College; M.S., Madison College; Ph.D., Virginia Polytechnic Institute and State University.
- VINCENT L. SEXTON, III *Assistant Professor of History*  
 B.A., Hampden-Sydney College; M.A., George Peabody College for Teachers.
- ELIZABETH G. SHAFER *Associate Professor of Psychology*  
 B.A., M.S., Ph.D., Florida State University.
- JOAN V. SHAFER *Assistant Professor of Home Economics*  
 B.S., Michigan State University; M.S., Eastern Michigan University.
- W. CULLEN SHERWOOD *Professor of Geology*  
 B.A., M.A., University of Virginia; Ph.D., Lehigh University.
- PEGGY A. SHIFFLETT *Instructor in Sociology*  
 B.A., M.A. in Ed., Madison College.
- BEVERLY P. SILVER *Assistant Professor of Biology*  
 B.S. in Ed., Madison College; M.S., Louisiana State University; Ph.D., State University of New York College of Environmental Science and Forestry.
- RAYMOND O. SIMMONS *Professor of Chemistry*  
 B.S.A., M.S., Ph.D., Purdue University.
- MARC G. SINGER *Assistant Professor of Psychology*  
 B.B.A., The City College of New York; M.B.A., Baruch College of New York; Ph.D., The University of Tennessee.
- BARBARA W. SMITH *Assistant Professor of Music*  
 B.S., University of Utah; M.A., Brigham Young University.
- CARLTON B. SMITH *Associate Professor of History*  
 A.B., Susquehanna University; M.A., Kent State University; Ph.D., University of Virginia.
- ELMER L. SMITH *Professor of Sociology*  
 B.S., Florida Southern College; M.A., Western Reserve University; D.S.Sc., Syracuse University.
- HARRY F. SMITH *Assistant Professor of Mathematics*  
 B.A., University of California at Berkeley; M.S., Ph.D., University of Iowa.

- WILLIAM D. SMITH *Assistant Professor of Education*  
B.S., University of Maryland; M.A.T., Purdue University; Ph.D.,  
University of Maryland.
- MARY SUZANNE SNOW *Instructor of Art*  
B.F.A., M.A., University of Colorado.
- RAY SONNER *Vice President for Public Affairs*  
B.A., Lynchburg College; M.Ed., University of Virginia.
- DIANE M. SPRESSER *Assistant Professor of Mathematics*  
B.S., Radford College; M.A., University of Tennessee.
- JON A. STAIB *Associate Professor of Physics*  
B.S., University of Toledo; M.S., Case Institute of Technology; Ph.D.,  
Case Western Reserve University.
- CHARLES T. STARKEY *Assistant Professor of Special Education*  
B.A., Miami University of Ohio; M.A., Ph.D., University of Wis-  
consin.
- PAUL H. STEAGALL, JR. *Professor of Business Education*  
B.S., M.Ed., Virginia Polytechnic Institute; Ph.D., The Ohio State  
University.
- JAMES LEE STEELE *Assistant Professor of Sociology*  
A.B., Davidson College; B.D., Th.M., Southeastern Baptist Theologi-  
cal Seminary.
- KATHARINE STEIN *Counseling Psychologist;*  
*Instructor of Psychology*  
B.A., M.A., Southern Illinois University.
- JOHN G. STEWART *Associate Professor of German and Latin*  
B.A., College of the Pacific; M.A., Columbia University.
- BARBARA NELL STONE *Associate Professor of Sociology*  
A.B., George Washington University; M.A., University of Tennessee;  
Ed.D., Boston University.
- CARL DAVID SWANSON *Associate Professor of Psychology*  
*and Counselor Education*  
B.S., J.D., Washington and Lee University; M.A., Ed.D., Western  
Michigan University.
- JOHN SWEIGART *Dean, School of Arts and Sciences;*  
*Professor of Philosophy*  
A.B., Lafayette College; Ph.D., University of Pennsylvania.

DEE SWIFT, JR. *Assistant Professor of Business Administration*  
B.B.A., M.S., Baylor University.

HELEN MCDUFFIE SWINK *Associate Professor of English*  
B.S., West Virginia University; M.A. in Ed., Madison College; Ph.D.,  
University of Virginia.

KENNETH ALLEN SZMAGAJ *Assistant Professor of Art*  
B.F.A., Wayne State University; M.A., M.F.A., University of Iowa.

GERALD R. TAYLOR, JR. *Associate Professor of Physics*  
B.S., M.S., Virginia Polytechnic Institute; Ph.D., University of Vir-  
ginia.

TIMOTHY N. TAYLOR *Assistant Professor of Mathematics*  
B.S., M.S., North Carolina State University.

CRYSTAL THEODORE *Professor of Art*  
A.B., Winthrop College; A.M., Ed.D., Columbia University.

WILLIAM WEST THOMAS *Professor of Philosophy and Religion*  
B.A., Washington and Lee University; B.D., Yale University Divinity  
School; Ph.D., Duke University.

GILBERT S. TRELAWNY *Head, Department of Biology;*  
*Professor of Biology*  
B.S., Delaware Valley College of Science and Agriculture; M.S.,  
Ph.D., Lehigh University.

ROSALIND TRENT *Assistant Professor of English*  
A.B., Woman's College of the University of North Carolina; M.A.,  
Duke University.

JOHN M. TURNER *Assistant Professor of Sociology*  
B.A., Emory and Henry College; M.S.W., Virginia Commonwealth  
University.

DOUGLAS E. TYLER *Instructor of Art History*  
B.A., M.A., Michigan State University.

LARRY T. TYNES *Assistant Professor of Music*  
B.A., Millsaps College; M.A., George Peabody College for Teachers.

ROBERT W. VANDERWARKER, JR. *Assistant Professor of Physical*  
*and Health Education*  
B.S., Brockport College of Education; M.A., University of Maryland.



- K. THOMAS VARGHESE *Associate Professor of Economics*  
 B.A., University of Travancore (India); B.Com., University of Kerala (India); M.A. (Psc.), M.B.A., M.A. (Econ.), Ph.D., Wayne State University.
- MARY JUNE WALL *Assistant Professor of Political Science*  
 B.A., B.S., Radford College; M.A., The Johns Hopkins University.
- WILLIAM O. WALSH *Assistant Professor of Business Education*  
 B.S., Southwest Missouri State College; M.S., Kansas State Teachers College.
- DAVID A. WATKINS *Assistant Professor of Music*  
 B.M., B.S., M.A., The Ohio State University.
- LOWELL M. WATKINS *Assistant Professor of Music*  
 B.S., State College, West Chester, Pennsylvania; M.A., Columbia University.
- JOHN C. WELLS *Professor of Physics*  
 A.B., Colgate University; M.A., Ed.D., Columbia University.
- GEORGE A. WEST *Professor of Music*  
 B.Mus., Oberlin Conservatory of Music; M.M., Ph.D., Michigan State University.
- HERBERT B. WHITMER, JR. *Assistant Professor of Sociology*  
 B.A., Bridgewater College; M.S. in Social Work, Richmond Professional Institute of the College of William and Mary.
- ANN MCCOY WILES *Assistant Professor of Philosophy and Religion*  
 B.S.S.S., M.A., Loyola College.
- WAYNE H. WILEY *Assistant Professor of Education and Philosophy*  
 B.A., Randolph-Macon College; M.Div., Duke University; Th.M., Union Seminary in Virginia; Ph.D., University of Virginia.
- HOWARD M. WILHELM *Associate Professor of Economics*  
 B.A., University of Virginia; M.A. in Ed., Madison College; Ed.D., University of Virginia.
- JUDITH B. WILLARD *Instructor of Sociology*  
 A.B., Emmanuel College; M.S.W., University of Michigan.
- BYRON S. WILLS *Director of Student Life;*  
*Assistant Professor of Psychology*  
 B.S., Whitworth College; M.S., University of Oregon; Ph.D., Oregon State University.

DEE SWIFT, JR. *Assistant Professor of Business Administration*  
B.B.A., M.S., Baylor University.

HELEN McDUFFIE SWINK *Associate Professor of English*  
B.S., West Virginia University; M.A. in Ed., Madison College; Ph.D.,  
University of Virginia.

KENNETH ALLEN SZMACAJ *Assistant Professor of Art*  
B.F.A., Wayne State University; M.A., M.F.A., University of Iowa.

GERALD R. TAYLOR, JR. *Associate Professor of Physics*  
B.S., M.S., Virginia Polytechnic Institute; Ph.D., University of Vir-  
ginia.

TIMOTHY N. TAYLOR *Assistant Professor of Mathematics*  
B.S., M.S., North Carolina State University.

CRYSTAL THEODORE *Professor of Art*  
A.B., Winthrop College; A.M., Ed.D., Columbia University.

WILLIAM WEST THOMAS *Professor of Philosophy and Religion*  
B.A., Washington and Lee University; B.D., Yale University Divinity  
School; Ph.D., Duke University.

GILBERT S. TRELAWNY *Head, Department of Biology;*  
*Professor of Biology*  
B.S., Delaware Valley College of Science and Agriculture; M.S.,  
Ph.D., Lehigh University.

ROSALIND TRENT *Assistant Professor of English*  
A.B., Woman's College of the University of North Carolina; M.A.,  
Duke University.

JOHN M. TURNER *Assistant Professor of Sociology*  
B.A., Emory and Henry College; M.S.W., Virginia Commonwealth  
University.

DOUGLAS E. TYLER *Instructor of Art History*  
B.A., M.A., Michigan State University.

LARRY T. TYNES *Assistant Professor of Music*  
B.A., Millsaps College; M.A., George Peabody College for Teachers.

ROBERT W. VANDERWARKER, JR. *Assistant Professor of Physical*  
*and Health Education*  
B.S., Brockport College of Education; M.A., University of Maryland.

- K. THOMAS VARGHESE *Associate Professor of Economics*  
 B.A., University of Travancore (India); B.Com., University of Kerala (India); M.A. (Psyc.), M.B.A., M.A. (Econ.), Ph.D., Wayne State University.
- MARY JUNE WALL *Assistant Professor of Political Science*  
 B.A., B.S., Radford College; M.A., The Johns Hopkins University.
- WILLIAM O. WALSH *Assistant Professor of Business Education*  
 B.S., Southwest Missouri State College; M.S., Kansas State Teachers College.
- DAVID A. WATKINS *Assistant Professor of Music*  
 B.M., B.S., M.A., The Ohio State University.
- LOWELL M. WATKINS *Assistant Professor of Music*  
 B.S., State College, West Chester, Pennsylvania; M.A., Columbia University.
- JOHN C. WELLS *Professor of Physics*  
 A.B., Colgate University; M.A., Ed.D., Columbia University.
- GEORGE A. WEST *Professor of Music*  
 B.Mus., Oberlin Conservatory of Music; M.M., Ph.D., Michigan State University.
- HERBERT B. WHITMER, JR. *Assistant Professor of Sociology*  
 B.A., Bridgewater College; M.S. in Social Work, Richmond Professional Institute of the College of William and Mary.
- ANN MCCOY WILES *Assistant Professor of Philosophy and Religion*  
 B.S.S.S., M.A., Loyola College.
- WAYNE H. WILEY *Assistant Professor of Education and Philosophy*  
 B.A., Randolph-Macon College; M.Div., Duke University; Th.M., Union Seminary in Virginia; Ph.D., University of Virginia.
- HOWARD M. WILHELM *Associate Professor of Economics*  
 B.A., University of Virginia; M.A. in Ed., Madison College; Ed.D., University of Virginia.
- JUDITH B. WILLARD *Instructor of Sociology*  
 A.B., Emmanuel College; M.S.W., University of Michigan.
- BYRON S. WILLS *Director of Student Life;*  
*Assistant Professor of Psychology*  
 B.S., Whitworth College; M.S., University of Oregon; Ph.D., Oregon State University.

- JANET WINSTEAD *Associate Professor of Biology*  
 B.S., Midwestern University; M.S., Ohio University; Ph.D., University of Texas at Austin.
- MARY MARGARET WINSTON *Instructor of Home Economics*  
 B.S., Madison College; M.S., University of Tennessee.
- ELLIS B. WISLER, JR. *Instructor of Physical and Health Education*  
 A.A., B.S., M.A. in Ed., The George Washington University.
- ANDREW R. WOJDITKE *Instructor of Physical and Health Education*  
 A.A., Daytona Beach Junior College; B.S., Bethune-Cookman College.
- JOHN E. WOOD *Professor of History*  
 B.A., University of Virginia; M.A., Ph.D., Tulane University.
- BEN E. WRIGHT *Associate Professor of Music*  
 B.A., Arkansas Polytechnic College; M.M.Ed., Louisiana State University; Ed.D., University of Northern Colorado.
- JOYCE S. WSZALEK *Assistant Professor of English*  
 B.A., Westhampton College; A.M., Radcliffe College.
- BARBARA JEANNE WYANCKO *Assistant Professor of Art*  
 B.A.E., M.F.A., University of Kansas.
- GAYLE YAHNKE *Instructor of Home Economics*  
 B.S., M.S., University of Illinois.
- PETER JOHN YANKER, JR. *Assistant Professor of Special Education*  
 B.S., State College of New York at Cortland; M.Ed., The Pennsylvania State University.
- CHONG-KUN YOON *Associate Professor of History*  
 B.A., University of Oregon; M.A., Ph.D., The American University.
- STEVEN A. ZAPTON *Special Instructor of Art*  
 B.S. in Design, University of Michigan; M.F.A., Pratt Institute.
- TODD ROLF ZEISS *Assistant Professor of English*  
 B.A., Lawrence University; M.A., University of Virginia; M.F.A., University of Iowa.
- CHARLES W. S. ZIEGENFUS *Assistant Professor of Mathematics*  
 B.S., Moravian College; M.A., University of Kansas.

Anthony-Seeger Campus School Faculty

- RUTH M. ALDRICH *Librarian; Assistant Professor  
of Library Sciences*  
B.S. in Ed., State University College at Geneseo, New York; M.S. in  
L.S., Syracuse University.
- ISABELLE S. DOTSON *Instructor of Education,  
Supervisor of Kindergartens*  
B.S., M.S. in Ed., Madison College.
- MARY P. FUNKHOUSER *Assistant Professor,  
Supervisor of Nursery Schools*  
B.A., Agnes Scott College; M.A. in Ed., Madison College.
- HARRIET W. JENKINS *Instructor of Education*  
A.A., Virginia Intermont College; B.S. in Ed., University of Virginia.
- DIANE MARIE MCLANE *Lecturer in Education*  
B.S., Madison College.
- JACK EDWARD OSBORN *Special Instructor of Education*  
B.S., M.S., Madison College.
- JOHN R. PETERSHEIM *Assistant Professor, Supervisor of Fifth Grade*  
B.S., Eastern Mennonite College; M.S. in Ed., Madison College.
- DOROTHY C. RAYNES *Assistant Professor, Supervisor of Third Grade*  
B.S. in Ed., M.A. in Ed., Madison College.
- JOHN M. STONE *Assistant Professor, Supervisor of Sixth Grade*  
B.S., University of Maryland; M.A. in Ed., Madison College.
- MARGUERITE L. WAMPLER *Associate Professor,  
Supervisor of Fourth Grade*  
B.S. in Ed., M.S. in Ed., Madison College; Ed.D., University of Vir-  
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# *The College*



**JULY 4TH CONVENTION**  
FRIDAY, JULY 4, 1975  
10:00 AM - 12:00 PM  
GENERAL ADMISSION  
FREE  
ADMISSION IN CASH PRIZES  
10:00 AM - 12:00 PM  
1:00 PM - 3:00 PM  
4:00 PM - 6:00 PM  
7:00 PM - 9:00 PM  
10:00 PM - 12:00 AM

**NOTE**  
The following items are available for sale at the convention:  
- T-shirts  
- Buttons  
- Posters  
- Souvenirs  
- Refreshments  
- Entertainment  
- Prizes  
- Cash prizes  
- Free admission  
- Free refreshments  
- Free entertainment  
- Free prizes  
- Free cash prizes  
- Free admission  
- Free refreshments  
- Free entertainment  
- Free prizes  
- Free cash prizes

# INTRODUCTION

## to Madison College

### Purpose

Madison College is a college of arts and sciences governed by a Board of Visitors. The College is financially aided by the Commonwealth of Virginia, and its program is coordinated with the master plan of the State Council of Higher Education.

The primary purpose of Madison College is the development of citizens who can make positive contributions to society. The College is committed to excellence in the intellectual, cultural, social and professional growth of its students. Madison also serves the citizens of the region in which it is located through its instructional, research and public service efforts. The College offers majors in most of the academic disciplines and in pre-professional and professional programs. It has a major responsibility to educate teachers, particularly for the schools of Virginia. Madison is authorized to confer the degrees of Bachelor of Arts, Bachelor of Science, Bachelor of Music Education, Bachelor of Business Administration, Master of Arts in Education, Master of Science in Education, Master of Arts, Master of Science, Master of Business Administration, Master of Arts in Teaching, and Master of Education.

### History

Madison College was established by the Virginia General Assembly in 1908 as the State Normal and Industrial School for Women. Since then, the objectives of the College have been frequently modified and its functions increased considerably. The College has been fully co-educational since 1966 and has offered graduate work at the master's level since 1954.

The first president of the College was Julian Ashby Burruss. The College opened its doors to its first student body in 1909 with an enrollment of 209 students and a faculty of 15. Its first 20 graduates received diplomas in 1911.

In 1914 the name of the College was changed to The State Normal School for Women at Harrisonburg. Authorization to award the Bachelor of Science degree was granted in 1916. During this initial



period of the College's development, the campus plan was established and six buildings were constructed.

Dr. Samuel Page Duke became the second president of the College in 1919 upon the resignation of Dr. Burruss, who became President of Virginia Polytechnic Institute.

The College became the State Teachers College at Harrisonburg in 1924 and continued under that name until 1938, when it was named Madison College in honor of the fourth president of the United States. During Dr. Duke's administration, nine major buildings were constructed and the College was authorized to confer the Bachelor of Arts and Bachelor of Science degrees in liberal arts. In 1946, men were first enrolled as regular day students.

Dr. G. Tyler Miller became the third president of the College in 1949, following the retirement of Dr. Duke. During Dr. Miller's administration, from 1949 to 1971, the campus was enlarged by 240 acres and 19 buildings were constructed. Major curriculum changes were made and the College was authorized to grant Master of Arts and Master of Science in Education degrees in 1954; the Master of Science degree in 1960; and the Master of Arts degree in 1966. In 1966, by action of the Virginia General Assembly, Madison College became a coeducational institution.

In 1971, following the retirement of Dr. Miller, Dr. Ronald E. Carrier became the fourth president of the College. During his administration construction has been completed or has begun on six major College buildings. Enrollment at the College has grown under Dr. Carrier's administration from 4,000 to the 1973-74 enrollment of 6,350 (3,950 women and 2,400 men). The College expects its enrollment to reach 7,200 by the end of the 1970s, with an approximate 50-50 ratio between men and women students.

### Location

Madison College is located in Harrisonburg, an attractive city of 17,000 in the heart of the Shenandoah Valley of Virginia. The campus offers a view of the Blue Ridge Mountains to the east and the Alleghenies to the west.

Harrisonburg is at the intersection of three major highways: Interstate 81, U.S. 33 and U.S. 11. Interstate 81 and Interstate 64 intersect about 25 miles south of Harrisonburg.

The Greyhound Bus Lines has a terminal in Harrisonburg and Piedmont Airlines serves the Shenandoah Valley Airport, about 20 miles from the campus. Amtrak passenger train service and a Trailways Bus Lines terminal are available at nearby Staunton.

### Organization

The general responsibility for the administration of the College has been assigned to the President who is appointed by the Board of Visitors. The Board has an Executive Committee which consists of three Visitors and the Rector, as an *ex officio* member. When the Board is in recess, the Executive Committee may exercise the power of the Board on all but major matters.

To assist the President in the administration of the College, the Board has authorized five vice presidential positions: Vice President for Academic Affairs; Vice President for Business Affairs; Vice President for Student Services; Vice President for Public Affairs; and Vice President for Administration. Appointments to these positions, to other administrative offices, and to the faculty and staff of the College are made by the Board upon the recommendation of the President.

The academic areas of the College are divided into the School of Arts and Sciences, the School of Education, the School of Business and the Graduate School. Deans, Department Heads, and individual faculty members are responsible to the Vice President for Academic Affairs in all matters pertaining to instruction.

### Campus and Buildings

The Madison College campus contains a total of 360 acres, including 31 acres at the College Farm about eight miles from the main campus. The main campus faces on Harrisonburg's Main Street and extends in an eastward direction to Interstate 81.

Buildings on the western portion of the campus—"Front Campus"—are constructed of native blue limestone. Stone for the original College buildings was taken from the campus itself.

The newer buildings on the eastern portion of the campus—"Back Campus"—are constructed of red brick. All these buildings have been constructed since the mid-1960s.

*Residence Halls* are Spotswood, Sheldon, Ashby, Cleveland, Converse, Gifford, Logan, Wayland, Hoffman, Huffman, Frederikson,

Chappelear, Hanson, Weaver, Dingleline, Garber, Ikenberry, Shorts, Eagle and White. Another residence hall, M-3, will be completed in the fall of 1974.

*Gibbons Dining Hall*, designed to serve 1,700 people at one sitting, is located directly behind Wilson Hall at the center of the campus. A major renovation of this facility was just completed.

*Madison Memorial Library* contains approximately 250,000 volumes and adds a significant number of volumes each year. The book collection has been carefully selected to provide the books necessary to supplement the studies of all students and to permit students to read widely in subjects not covered by formal classes.

*Wilson Hall*, the building at the head of the campus mall, is the central administration building. It contains the Office of the President and the major administrative offices. Wilson Hall includes an auditorium with a seating capacity of 1,372.

*Maury Hall* contains faculty offices and classrooms. It is the oldest building on campus and contains the Department of Special Education Services.

*Keezell Hall* accommodates the Department of Foreign Languages, the Department of English and administrative offices for the School of Education.

*Anthony-Seeger Campus School* is named for two retired faculty members of the College, Miss Katherine Minor Anthony and Miss Mary Louise Seeger. Classrooms are provided for nursery school, kindergarten and elementary grades. The Campus School is operated as a model school in the community and serves School of Education programs.

*Duke Fine Arts Center* houses the Music Department and the Art Department. It contains the Latimer-Shaeffer Theatre, which seats 344.

*Harrison Hall* houses the departments of Business Administration-Economics and Political Science and Geography. The Department of Business Education-Office Administration is located in *Harrison Hall Annex*.

*Jackson Hall* houses the Department of History and *Johnston Hall* houses the Department of Sociology and the Department of Psychology. *Moody Hall* houses facilities for the Home Economics Department and includes an auditorium-lecture room which seats 160.

*Alumnae Hall* was built largely through contributions of the alumni and friends of the College. It contains offices relating to the Division of Student Services.

*Hillcrest* is the home of the President of the College. It was built in 1910 by President Burruss and has been occupied by each of Madison's four presidents.

*Madison College Health Center* was opened in the fall of 1959. A major renovation at this modern health facility was completed early in 1974.

*Godwin Hall*, a field house containing a 5,000-seat gymnasium and an olympic-size swimming pool with room for 800 spectators, houses the offices of the Health and Physical Education Department and the Intercollegiate Athletic Offices. Outdoor facilities relating to Godwin Hall include a multi-purpose, artificial turf, recreational-athletic-intramural field and track; a baseball field; a soccer field; and 15 tennis courts.

*Percy H. Warren Campus Center* is the center for student activities on campus. It contains a bookstore, cafeteria, post office, recreational rooms and meeting rooms.

*Burruss Hall*, adjacent to the library, houses the Departments of Biology, Chemistry, Geology, Mathematics and Physics. A new science building, *Miller Hall*, is under construction and will be completed in 1975.

### The Alumni Association

The purpose of the Alumni Association is to keep the College in touch with its graduates; to acquaint them with its work, its plans, and its needs; to further their interests in all possible ways; and to promote warm fellowship among them by providing frequent reunions.

Alumni throughout the nation are active in support of the College. An annual fund drive, The Madison Fund, is conducted to seek financial support of Alumni.

The Association keeps a directory of graduates of Madison College, publishes "The Madisonian," holds a special reunion every year in the fall, when all former students are invited to visit the College, and holds a Spring Alumni Day.

# STUDENT AFFAIRS

## Purposes of Student Affairs:

The Dean of Student Affairs serves as the executive officer responsible for the development of an overall campus environment which is conducive to the positive educational and personal growth of students.

The purposes of the Division are:

1. To assist students in the areas of college governance, judicial affairs, and Greek life; and to provide general information and referral services for other areas of student concern.
2. To meet the needs of the changing student body by programming a variety of activities and events. These should attract a significant number of students and encourage both the growth of the individual and the establishment of positive relationships among members of the College community.
3. To assist the members of the Madison College community in the resolution of personal, vocational and educational concerns.
4. To assist residence hall and commuting students in the establishment of living-learning environments and educational experiences which make the maximum contribution to their intellectual, social and psychological growth.
5. To provide basic health care for students on a limited basis. The medical assistance includes out-patient services, short-term in-patient care and emergency treatment.

General information for and about students is available in the Office of Student Affairs on the first floor, Alumnae Hall. This service includes advisement on policies and procedures and referral to professional staff members, college offices or community agencies.

## Student Governance

Madison College is an open democratic community in which students, faculty and administration have a mutual responsibility. Students are involved in all areas of governance in which they are directly concerned. They are represented on the College Council and on its Commissions on Undergraduate Studies, Student Services, and Planning and Development, as well as on standing and special committees reporting to these bodies. The Student Government Association, com-

posed of all the undergraduate students at Madison, exists to promote the welfare of the students and coordinate activities relevant to students and the campus community.

### **Student Rights, Regulations, and Judicial Procedures**

Madison College is a community of individuals whose primary purpose is education. As with any other community, regulations and policies have been established to help the College maintain the environment necessary to fulfill its stated purpose. Students, in turn, have been given a number of rights to guarantee fair and equitable procedures in the event they are ever charged with a violation of College policies. Students are responsible for familiarizing themselves with College policies and regulations which are published in "*The Living and Learning Environment—A Statement of Student Policies.*" This document is distributed during the Fall registration or can be obtained from the Office of Student Affairs in Alumnae Hall.

The observance of due process is a prime consideration in all college judicial proceedings. All policies and regulations are classified as either major or minor; minor violations are heard by the Life Style Judicial Boards or the College Hearing Officer, while all major violations are heard by the College Judicial Council or the Appellate Hearing Officer. Violations involving academic dishonesty are heard by the Honor Council, which is an integral part of the College's judicial structure. Students participate as members of all judicial bodies. Details of the procedures and areas of responsibility of these bodies as well as student rights and responsibilities are published in "*The Living and Learning Environment—A Statement of Student Policies.*"

The final authority to suspend or dismiss students is vested in the President of the College. Recommendations of suspension or dismissal by the College Judicial Council are submitted to the President. He may suspend or dismiss students for serious violations of College policies after due consideration by the College Judicial Council, or, in an emergency situation, if a student presents a clear and present danger to the continued operation of the College or to the safety of the members of the College community.

### **Student Life**

The Office of Student Life has three areas of responsibility: (1) Residence Halls, (2) Commuting Students, Off-Campus Housing, and (3) Educational Programming. It endeavors to assist students with

their growth and development within their living environment regardless of whether they live in college operated housing or off campus.

Within the residence halls, an attempt is made to offer a range of living arrangements and life style options which will enable students to choose the type of hall with which they feel most comfortable. Students are assigned to halls and room changes are made by the residence hall staff members of the Office of Student Life on the basis of student preference and needs. The staff of each residence hall has been carefully selected and trained to assist students in their adjustment to college as well as in their personal growth and development.

The Office of Student Life is also responsible for helping students to find housing off-campus and for assisting them with the problems and needs which they face as commuting students. The College provides information on off-campus housing, assists commuting students in the identification of their needs, and maintains a communication link with commuting students.

The Office of Student Life is committed to providing both residence hall and commuting students with educational programs and opportunities which will contribute to their total education as well as meet their developmental needs. Student Life staff members are available to assist students or other members of the college community in the establishment of workshops, non-credit courses, in-service programs, seminars, or any other activity which will contribute to the social, intellectual, or psychological growth of any members of the college community.

### **Student Health**

The College Health Center is headed by the Director of Health Services. The medical staff includes physicians who specialize in orthopedics, general surgery, gynecology, and psychiatry. Registered nurses are on duty 24 hours daily to receive students and assist the physicians. Out-patient service, care for minor illnesses, and emergency care for all injuries and illnesses are provided. Short-term in-patient care is provided in cases of minor illness.

The Student Health Service places emphasis upon general medical advice to students and upon the prevention and treatment of incipient and early illness. The chief emphasis of the Health Center is upon the care of students with minor illnesses which do not require hospitalization.

A medical history and a report of a medical examination must be submitted on forms provided by the college. A report of a medical examination, recorded on forms provided by the College, is also required when the student begins his third year of attendance.

### Counseling Center

Counseling Center services are available to all undergraduate and graduate students, faculty and staff seeking *confidential* help in the clarification and resolution of personal, vocational or educational problems which may interfere with a successful college or life experience. The Counseling Center is located on the second floor of Alumnae Hall and its services are available without charge.

The Center is staffed by psychologists and a Study Skills Coordinator. Their primary responsibility is to provide professional assistance in an atmosphere which enables a person to make his own decisions and choices and assures his right to self-determination. Depending upon the nature of the problem, individual or small group counseling may be provided. A close professional relationship is maintained between the Counseling Center staff and the College Psychiatrist.

The Counseling Center also provides consultation services for faculty, administrators, students and parents. Consultation consists of advising individuals or groups on ways to increase interpersonal effectiveness.

Some of the concerns which students often wish to discuss are: major fields of study and vocations, relationships with others, personal growth, marriage, study habits and attitudes.

Although psychological tests are not routinely administered, they may be used as a part of the assessment of the individual student's needs and goals. Tests of intelligence, aptitude, achievement, personality, interest and study skills are given when appropriate.

Regardless of the type of problem presented by the student, all information with respect to the student's relationship to the Counseling Center is completely private and *confidential*. The Madison community is welcome to visit or call the Counseling Center. Every effort is made to see an individual as soon as possible. Walk-in service (no appointment necessary) is available Monday through Friday from 3:00-5:00 p.m.



## Placement and Follow-up of Graduates

The College brings its graduates to the attention of prospective employers through the Office of Placement and Field Services.

Normally, students enroll for placement assistance during the Spring of their junior year, so their files may be completed in time for campus recruitment beginning in October of their senior year. At the time of enrollment, they are given instructions and materials for completing a placement file from which the office prepares a set of credentials to be furnished to each campus recruiter for each individual being interviewed. Credentials are mailed to a prospective employer upon request. Graduate students are also encouraged to register for placement services.

The aim of the Office of Placement is not only to place new graduates, but also to furnish placement services to Alumni who are seeking a job change. Those registered with the office are encouraged to update their file as additional training is completed and as they engage in new work experiences.

Students who desire teaching positions or other types of employment in states other than Virginia may also receive professional help through the Placement Office. Those needing teaching certification may receive information about certification requirements of the various states.

The Placement Office has a professional staff member available at all times to assist with placement problems on an individual basis. A continuous campus recruiting program by employers of public schools, business, industry and government is carried out from October through May of each year.

All placement services are intended to supplement the efforts of the individual and are not intended to replace the graduate's own personal search for employment.

After helping to place graduates who are teaching, the Director or Assistant Director of Placement and Field Services makes a personal visit to see each one, followed by a questionnaire to gather information that will determine how well the teacher is progressing and to help assess the effectiveness of the teacher preparation program.

The field contact provides an opportunity to develop a better working relationship and understanding between the College and personnel within the public schools, business, industry, and government.

Also, it gives the placement office a chance to learn of immediate employment opportunities that would otherwise not be known to graduates. In addition, additional campus recruiters are added to our list of employers through these personal field visits.

### Student Activities

Madison offers excellent opportunities for active and stimulating social and cultural life to all students. Varied programs for students are provided through educational programming in the residence halls, the Campus Program Board, honor societies, departmental and other organizations. The Student Activities office assists college groups in arranging events and gives guidance to the development of campus organizations.

The Percy H. Warren Campus Center serves as a focal point for resident and commuting students. Its facilities include lounges, study and recreation areas, poolroom, snack bar, meeting rooms, and offices of campus organizations. The College Post Office, Bank and Bookstore are also located in the Campus Center.

The Campus Program Board arranges activities to develop the individual, broaden his interests, stimulate creativity, encourage display of talent and stress leadership and group interaction. These typically include charter trips to cultural and athletic events, movies, coffee-houses, concerts, dances and exhibits.

There is a varied schedule of concerts, plays, recitals and lectures presented by prominent artists as well as students and faculty members. Madison participates in the University Center in Virginia. Through the Center's Visiting Scholars program, outstanding academic personalities are brought to the campus.

The College Farm, a farmhouse on the Shenandoah River, is available for picnics and outings.

Chapters of eight social sororities (Alpha Gamma Delta, Alpha Sigma Alpha, Alpha Sigma Tau, Kappa Delta, Phi Mu, Sigma Kappa, Sigma Sigma Sigma, and Zeta Tau Alpha) operate under the general control of the college administration and local Panhellenic Council. All are members of the National Panhellenic Conference.

Madison College has seven social fraternities on its campus (Theta Chi, Tau Sigma Chi, Alpha Chi Rho, Sigma Phi Epsilon, Tau Kappa Epsilon, Sigma Nu, and Sigma Pi.) These organizations are members

of the Inter-fraternity Council and operate under the jurisdiction of the college administration.

Madison College has one national service sorority, Delta Sigma Theta, which is a member of the National Panhellenic Council, and one national service fraternity, Alpha Phi Omega.

### **Student Recreation**

The following facilities for recreation are available to students by presenting their I. D. cards to the recreation supervisor on duty: Sinclair Gymnasium, Savage Natatorium, handball and squash courts, conditioning room (all located in Godwin Hall), Keezell pool, tennis courts, and athletic fields (both natural and artificial turf adjacent to Godwin Hall). There is a comprehensive intramural program for both men and women.

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## ADMISSION

Admission to the University is contingent upon the successful completion of the requirements for admission as set forth in the University Catalog. The requirements for admission are as follows: 1. The applicant must be a high school senior or graduate of a high school in the United States or a foreign country which is recognized by the United States Department of Education. 2. The applicant must have completed a minimum of 12 college preparatory courses including English, mathematics, science, social studies, and foreign language. 3. The applicant must have a minimum GPA of 3.0 on a 4.0 scale. 4. The applicant must have a minimum ACT score of 28 or SAT score of 1200. 5. The applicant must be recommended by a high school counselor or teacher. 6. The applicant must be a resident of the state of Michigan. 7. The applicant must be a native-born American citizen. 8. The applicant must be at least 18 years of age at the time of admission. 9. The applicant must be able to pay the tuition and other expenses of the University. 10. The applicant must be in good health and of good moral character. 11. The applicant must be able to do college-level work. 12. The applicant must be able to do independent work. 13. The applicant must be able to do original work. 14. The applicant must be able to do creative work. 15. The applicant must be able to do critical thinking. 16. The applicant must be able to do problem-solving. 17. The applicant must be able to do communication. 18. The applicant must be able to do collaboration. 19. The applicant must be able to do leadership. 20. The applicant must be able to do teamwork. 21. The applicant must be able to do self-direction. 22. The applicant must be able to do self-management. 23. The applicant must be able to do self-education. 24. The applicant must be able to do self-improvement. 25. The applicant must be able to do self-reflection. 26. The applicant must be able to do self-critique. 27. The applicant must be able to do self-evaluation. 28. The applicant must be able to do self-assessment. 29. The applicant must be able to do self-analysis. 30. The applicant must be able to do self-synthesis. 31. The applicant must be able to do self-integration. 32. The applicant must be able to do self-actualization. 33. The applicant must be able to do self-fulfillment. 34. The applicant must be able to do self-actualization. 35. The applicant must be able to do self-actualization.

# *Academic Information*

of the development of educational systems, and the facilitation of their effective implementation.

The author is currently a senior lecturer in the Faculty of Education, Curtin University, Perth, Western Australia, and is also a member of the National Educational Council, and has several years of experience in the field of educational research.

*Dr. John H. Hattie is currently a senior lecturer in the Faculty of Education, Curtin University, Perth, Western Australia.*

The following is a list of the titles of the books published by the author in the last five years. It is intended to be a partial list, as the author has published many other books, and is currently working on several more. The list is intended to provide a general overview of the author's research interests and to highlight some of the key areas of his work.

- Hattie, J. (2009). *Visible Learning: A synthesis of over 800 meta-analyses relating to education*. London: Routledge.
- Hattie, J. (2008). *Visible Learning: What works in education*. London: Routledge.
- Hattie, J. (2007). *Visible Learning: The power of good evidence for learning*. London: Routledge.
- Hattie, J. (2006). *Visible Learning: The power of good evidence for learning*. London: Routledge.
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# Academic Information

For more information on the author's work, please visit his website at <http://www.visiblelearning.com>. The website provides a comprehensive overview of the author's research and a list of his publications. It also includes a section on the author's current research projects and a list of his speaking engagements. The website is a valuable resource for anyone interested in the field of educational research and practice.

# ADMISSION

Admission to Madison College is competitive. The number of new students admitted each year is limited by the available dormitory and classroom space, instructional personnel and budgetary considerations. All applications for admission will be examined in accordance with policies approved by the Board of Visitors. The College accepts for admission those applicants who seem to be best qualified to benefit from the educational opportunities offered by the College. Applications for admission will be considered without regard to race, color, sex, age, or national origin of individuals.

Initial admission to the College does not assure continued attendance at succeeding sessions. Students enrolled at the College who wish to attend the following regular session must apply for re-admission prior to the beginning of the regular session term. Application forms for enrolled students will be mailed to regular students prior to spring registration and must be filled in and submitted to the Business Office. After the initial mailing, re-admission forms must be obtained from the Office of Admissions.

## INTERVIEWS

Although an interview is not required for admission to the College, prospective students are invited to attend group interviews and to participate in group tours of the campus.

Group interviews are held each weekday at 10:00 a.m. and 2:00 p.m. and at 9:00 a.m. and 10:30 a.m. on Saturday. Tours of the campus will begin immediately thereafter.

The Office of Admissions and Financial Aid is located in Varner House and parking space for visitors to the College is located adjacent to the building.

### Freshman Students

A personal interview is not required for each applicant. If however, the student desires to discuss his admission to Madison College, he should make an appointment with the Director of Admissions or his representative.

### Admission Requirements

The general requirements for admission to Madison College are:  
(1) graduation from an accredited secondary school or its equivalent as shown by examination;

- (2) rank in the upper one-half of the graduating class;
- (3) satisfactory scores on the standard tests administered by the secondary school;
- (4) an acceptable score on the Scholastic Aptitude Test of the College Entrance Examination Board (morning session);
- (5) satisfactory health certification; and
- (6) recommendation for admission by the high school principal, headmaster, or his authorized representative.

These requirements provide information to be used by the Office of Admissions in acting upon applications.

### Scholastic Preparation

Madison College stresses sound preparation in the academic disciplines.

The following is a *minimum* program of studies for students planning to enter Madison College: 4 units in English, 2 units in History and Government, 1 unit in a Laboratory Science (Biology, Chemistry or Physics), 2 units in Mathematics (including Algebra I, II, or Geometry), and 2 units in a Foreign Language (Liberal Arts majors).

Preference will be given to those applicants whose records exceed the above minimum units.

### Application Procedures

Applications for admission to Madison College should be submitted early in the first semester of the high school senior year.

The first step in the admissions procedure is to request the application form for Undergraduate Admission. This form should be carefully completed, properly signed and submitted to the secondary school Guidance Counselor or Principal with the application fee of fifteen dollars (\$15.00). This application fee is required of all applicants. It *Must Be By Check Or Money Order*. It is not refundable or transferable and it will not be credited to the student's account. The applicant should request that the Counselor or Principal complete the application or attach a copy of the applicant's transcript and forward the application and fee to the Director of Admissions, Madison College, Harrisonburg, Virginia 22801.

In addition to the completed application form and the official high school transcript, the College Entrance Examination Board test scores (Scholastic Aptitude Test) must be submitted. The applicant will be notified of the decision by the Office of Admissions.

In order to secure a room reservation, a fee of one hundred dollars (\$100) is required of all dormitory applicants accepted for admission. This fee is due on or before April 1 and is refundable until May 1. Residence Hall space is assigned on a rolling basis. Therefore, accepted applicants are urged to submit the room reservation fee prior to the April 1 deadline. It will be credited to the student's account upon registration. If payment of this fee is not made on or before the due date, the acceptance will be withdrawn and the application will be placed in the inactive file.

*A medical history and a report of a medical examination must be submitted by all applicants on forms provided by the College in order to meet the final admission requirements.* A student will not be assigned a room or permitted to register until a satisfactory report of a medical examination has been submitted. An applicant must be in good health—free from any communicable disease, and physically and mentally capable of performing the usual duties required by the College program. Any student who withholds pertinent health or other personal information may be required to withdraw from the College.

### **Early Decision Plan**

Madison College will give early decisions on November 1 on acceptance of qualified Freshmen applicants who request it and have all credentials on file prior to this date. Transfer applicants are also eligible to be considered under this plan.

An unsuccessful applicant for an early decision on acceptance will have his credentials automatically carried forward for reconsideration during the regular decision period without having to file another application. All other applicants will be processed during the regular acceptance period beginning immediately after early decision and extending until capacity has been reached.

### **College Board Examinations**

All freshman applicants for admission to Madison College are required to take the Scholastic Aptitude Test given by the College Entrance Examination Board and to have the results submitted to the Director of Admissions by the College Entrance Examination Board.

The Scholastic Aptitude Test is given in October, November, December, February, April, and June. Students are encouraged to take the test during the spring of their junior year; however, seniors should



take the test in October or November. Information concerning this test program may be obtained from the high school principals and guidance directors, or from the booklet entitled, *Bulletin of Information, Scholastic Aptitude Test*, which may be obtained free by writing to the College Entrance Examination Board, Box 592, Princeton, New Jersey 08540. The booklet, *A Description of the College Board Scholastic Aptitude Test*, may also be procured by request from the above address.

## NON-TRADITIONAL ACADEMIC CREDIT

### Advanced Placement

In certain subjects, applicants for admission who have completed advanced work in secondary school may apply for advanced placement at Madison College. Each case will be considered individually on its merits. Madison College has made arrangements with the College Entrance Examination Board to participate in the Advanced Standing Program offered by that organization.

Students who have been admitted to Madison College or who are being considered for admission may apply to the College Entrance Examination Board for permission to take one or more of the tests. The Advanced Placement Tests are administered in May. Madison College should also be informed of the student's intentions. This should be done early in the senior year of high school. It is suggested that interested students discuss this matter with their guidance counselors or principals. The Board reports the results of the examinations to the College. After consideration of the report, the department concerned makes the decision regarding advanced standing and credit. Each department may, at its discretion, require other evidence of ability such as personal interview and/or an additional written examination administered and graded by the department.

Advanced Standing College Board Examinations are available in the following subjects: English Composition and Literature, French, German, Latin, Spanish, American History, European History, Mathematics, Biology, Chemistry, Physics, Art and Music.

In addition to the examinations offered by the College Board, Madison College gives an advanced standing examination in Music.

The address of the College Advanced Placement Examination Board is Box 977, Princeton, New Jersey, 08540.

## College Level Examination Program (CLEP)

Madison College participates in the College Level Examination Program (CLEP). CLEP is a national program of credit-by-examination that offers a student an opportunity to obtain recognition for college level achievement. The following policies determine the awarding of advanced standing credit related to this program.

1. The minimum score on the subject examinations shall be the score that is equivalent to the mean score achieved by students in the national norms sample who earned a grade of C in a regular college course in the subject.
2. The minimum score on the general examinations shall be the 47th percentile.
3. The duplication of credit in the general and subject examinations will not be permitted, nor will duplication in CLEP examinations and previous formal course work be permitted except for courses previously taken in a non-college parallel program.
4. If an equivalent course is not offered, CLEP will be accepted as elective credit whenever a similar discipline or department is available at the College.
5. Departments may require other evidence of proficiency.
6. Residency and other degree requirements of Madison College must be met.

The Office of Admissions will coordinate the determination and awarding of CLEP credit. Additional information may be obtained by contacting the Admissions Office.

The Counseling Center on the Madison College Campus will administer the CLEP examinations on a monthly basis. Interested individuals may write to the Counseling Center for a schedule of dates the test will be given.

A request for a *Bulletin of Information for Candidates* should be directed to: College Level Examination Program, Box 592, Princeton, N.J. 08540.

## TRANSFER STUDENTS

A transfer student who has completed one full year of college work, at the time of application, may omit sending the secondary school record and SAT scores. Applicants who have completed less than one year of college work must submit the secondary school record and SAT scores in addition to college transcripts. Transfer students must request that a copy of official transcripts of grades be sent by *each* college or university previously attended. Concealment of previous attendance at a college or university is cause for cancellation or rejection.

### Admission Requirements

A student who wishes to transfer to Madison College must meet the following requirements:

1. Have honorable separation from previous institution(s). It is the student's responsibility to provide the Director of Admissions at Madison College with official transcripts of work completed from *all* colleges attended. Concealment of previous attendance at a college or university is cause for cancellation of admission and registration.
2. Be eligible to continue or to be readmitted at the last institution attended unless all work has been completed or the student has graduated from that institution.
3. Must have earned an above average cumulative grade point average in a college parallel program or have earned the Associate Degree in a college parallel curriculum.
4. Applicants in the Associate in Applied Science Degree program will be considered upon an individual, applicable basis. Each course will be evaluated and credit will be allowed only for the college parallel courses where the qualifications of the applicant are acceptable for admission.

### Application Procedures

1. Complete and return the application for Undergraduate Admission along with the application fee of fifteen dollars (\$15.00) to the Director of Admissions, Madison College, Harrisonburg, Virginia 22801. This fee is not refundable or transferable and will not be credited to the student's account. The application fee must be paid by *check* or *money order*.

2. Request all colleges attended to send the Director of Admissions at Madison College official transcripts of college records including a statement of honorable separation from that institution. Concealment of previous attendance at a college or university is cause for cancellation of admission and registration.
3. Submit a medical history and a report of a medical examination on the forms provided by the College.

### Evaluation of Transfer Credits

Credit will be allowed for those courses in which the student has made a grade of "C" or better and which are equivalent to courses in the program he elects.

The amount of credit which may be transferred is determined by Madison's policy which states that (1) at least 60 hours must be earned in a four-year institution, (2) a minimum of 32 hours must be completed at Madison, and (3) the last semester must be in residence at Madison.

Not more than twenty-five per cent of the work toward any degree may be done through extension. Such work must be relevant to the degree for which the student is enrolled. Students should secure approval from the Director of Records at Madison College in the choice of such courses.

### READMISSION

A student who has withdrawn from Madison College for one semester or longer must reapply for readmission through the Office of Admissions. Applicants for re-entry to the Spring term must apply and submit room fees by December first; for the Fall semester, by April first. The Admissions Office will review credentials and pass upon applications. This will be done in view of the space available and in conformity with the requirements of the latest catalog. If he has attended another institution, the work there as well as that done at Madison will be taken into consideration.

When a student withdraws during a semester and plans to return the next session as a residence hall student, he must submit an application for readmission and a ten-dollar non-refundable application fee to the Director of Admissions.

A student who is placed on academic suspension may reapply for admission after one calendar year and must have his record reviewed by the Review Committee before readmission is granted.

Any student who has been forced to withdraw from the College because of a low scholastic average must raise the cumulative credit average to meet the requirements stated in the catalog of the year of readmission. A student who re-enters Madison after an absence of a semester or more returns under the current catalog or the catalog of his graduating class.

### ADMISSIONS OF VETERANS AND SPECIAL STUDENTS

Madison College encourages veterans and adults to apply for admission as full or part-time students.

#### SERVICE CREDIT:

Veterans who have served two years of active military duty will be granted six semester hours of Health and Physical Education credit (providing they have no previous credit in this area.) This credit will permit students to exempt physical education requirements; however, those students in a teaching curriculum must complete Health 200 for certification purposes.

Additional credit may be given for successful completion of certain service schools. This credit will be determined on the basis of recommendations in *A Guide to the Evaluation of Educational Experiences in the Armed Services*. The Head of the Department involved may be consulted.

Credit is allowed for Defense Language Institute and the amount of credit varies with the type of course successfully completed. An official transcript must be received, and the credit allowed is based on the recommendation in *The Guide to the Evaluation of Experiences in the Armed Services*. For those languages not offered at Madison College, a maximum of fourteen hours is accepted.

#### SPECIAL STUDENTS

A student enrolled for credit courses but who is *not* presently seeking a degree is classified as a special student. This applies to those students who wish to enroll for day or evening classes. An application and ten dollar (\$10.00) fee for admission with supporting credentials must be filed with the Director of Admissions. The application fee continues in effect as long as the student remains a special student.

Special students will be required to submit a fifteen dollar (\$15.00) application fee when they file an application to become a

regular, degree-seeking student. However, not more than one such fee will be required during the same session.

### **ADMISSION OF HIGH SCHOOL STUDENTS AS SPECIAL STUDENTS**

High school students who have completed their junior year may be admitted to Madison College as Special Students. The students must be recommended for this program by the high school principal or guidance counselor and may enroll in classes in the Summer Term preceding their senior year and/or during their senior year.

Students admitted to this program may enroll for up to two courses during the Summer Term and for one course each term while attending high school classes.

High School students seeking admission to Madison College under this program must submit the "Application for Admission as a Special Undergraduate Student", a recommendation from the high school principal or guidance counselor, a transcript of high school grades, and a ten dollar (\$10) initial application fee.

Applications must be approved by both the Admissions Office and the Dean of the School in which the student desires admittance. If admission is denied, the ten dollar (\$10) application fee will be refunded. Should the student enroll as a full-time student at Madison College following high school graduation, credits earned, where appropriate, will apply toward degree requirements following the completion of one term. Transfer of these credits to other colleges would be at the discretion of the school concerned. No student may receive both high school and college credit for the same course.

The high school student admitted as a Special Student will be notified of his registration procedure by the Admissions Office.

Madison College will also award advanced standing credit to high school senior students who complete equivalent courses at other accredited institutions of higher learning.

### **ADMISSION FOR POST-BACCALAUREATE UNDERGRADUATE STUDY**

A graduate of an accredited institution taking a limited number of courses and not presently working toward a degree at Madison College may be admitted as a post-baccalaureate undergraduate student by having his college or university furnish a statement of degree and date earned.

## ADMISSION FOR TERM SPECIAL STUDENTS

A regularly enrolled student of another accredited institution who wishes to take a limited number of hours at Madison College during a term may be admitted as a *term special* student by having the registrar of his college or university send a statement of good standing and current classification.

## ADMISSION FOR ADULT SPECIAL STUDENTS

### General Policy

1. An undergraduate student may enter Madison College as an Adult-Special student and enroll in up to eleven (11) semester hours per semester for college credit without qualifying credentials under the following conditions:
  - A. If he has a high school diploma or equivalent, and
  - B. If he has had an interruption of at least one year in his formal education and is (1) 21 years of age or (2) 18 years of age or older and employed full time.
2. An individual who has been academically dismissed from another institution because of low academic standing, or who has been denied regular admission to Madison College because of low admissions qualifications, shall be required to wait for a period of at least one year for admission as an Adult-Special student.

### Admission to Degree Program

1. A student entering initially as an Adult-Special student may be admitted to degree candidacy upon:
  - A. The completion of nine (9) credit hours with a minimum of a 3.00 quality point average, or fifteen (15) or more credit hours with a minimum of a 2.00 quality point average, and
  - B. The approval of the Office of the Dean of Admissions and Records.
2. An Adult-Special student must apply for admission to degree candidacy after thirty (30) semester hours of study. Admission will be determined in part by his having earned the satisfactory quality

point average as specified above, and by his having met any specific requirements of the department he chooses to enter.

3. All credits earned as an Adult-Special student will be reviewed upon matriculation and may be applied toward the degree program if appropriate.

## GRADUATE STUDY

Any student who holds a Bachelor's Degree from an accredited institution of higher education and who wishes to pursue courses for graduate degree purposes should contact the Graduate School.



# THE UNDERGRADUATE

## Program

The Vice President for Academic Affairs serves as executive officer in all matters of academic status. All proposed exceptional programs of study and exceptions to degree requirements must be presented to the Vice President for Academic Affairs through the faculty advisor and department head for his consideration and approval. He also makes the decisions concerning all questions about the evaluation of credits which involve policy.

### Degrees

Madison College offers programs leading to four baccalaureate degrees: Bachelor of Arts (B.A.), Bachelor of Science (B.S.), Bachelor of Music Education (B.M.Ed.), and Bachelor of Business Administration (B.B.A.).

The program of study leading to the Bachelor of Arts includes forty-one (41) semester hours in Basic Studies, three (3) semester hours in Philosophy, six (6) to fourteen (14) semester hours of a Foreign Language\*, and a departmental major consisting of an intensive concentration in one subject or in one area of knowledge. A minimum of one hundred and twenty-eight (128) semester hours is required for graduation. Departments offering major programs leading to the Bachelor of Arts are Art, Biology, Chemistry, Communication Arts, Economics, English, Foreign Language, Geology, History, Library Science, Mathematics, Music, Philosophy, Philosophy and Religion, Physics, Political Science and Geography, Psychology, and Sociology.

The program of study leading to the Bachelor of Science includes forty-one (41) semester hours in Basic Studies, and, in addition three (3) semester hours in Mathematics, four (4) semester hours in Natural Science or three (3) semester hours in Social Science, and a departmental major consisting of an intensive concentration in one subject or in one area of knowledge. A minimum of one hundred and twenty-eight (128) semester hours is required for graduation. Depart-

\*A student who completes the elementary year course for eight (8) semester hours credit will need to complete fourteen (14) semester hours. The language requirement may be satisfied by an Exemption Test.

ments offering major programs leading to the Bachelor of Science are Art, Biology, Business Administration-Economics, Business Education and Office Administration, Chemistry, Communication Arts, Early Childhood and Elementary Education, Geology, Home Economics, Library Science, Mathematics, Physical and Health Education, Physics, Political Science and Geography, Psychology, Secondary Education and School Administration, Sociology, and Special Education Services.

The program of study leading to the Bachelor of Music Education is for students who wish to prepare for a career in the teaching of vocal or instrumental music. The specific requirements are set forth in the catalogue section under Department of Music and are designed to qualify the student for both the Bachelor of Music Education Degree and the Collegiate Professional Certificate.

The program of study leading to the Bachelor of Business Administration degree includes, in addition to the Basic Studies requirements, a thirty-three (33) semester-hour core program and options for concentration in the following areas: Accounting, Management, and Marketing.

### **Basic Studies**

Madison College offers a program of education based on the liberal arts and science tradition that is designed to prepare the student for the responsibilities of life and leadership in society. The College believes that there is a fundamental unity in all education that arises out of a general understanding of the humanities, the social sciences, and the natural sciences. To this end a core program of Basic Studies is required of all students. This program of Basic Studies provides a foundation for later specialization that permits detailed learning in one or more of the academic disciplines, and provides an awareness of the academic heritage underlying the development of the free and responsible citizen in a democratic society.

Although foreign language is not a Basic Studies requirement, it is strongly urged that all students considering graduate study take a foreign language, inasmuch as most graduate schools require some proficiency in this area. Students who are considering graduate study in the behavioral sciences should take statistics.

Students who believe that they have competent knowledge in any course may apply to the department of instruction in which the course is given for an Exemption Test or to attempt Credit by Examination.

The specific requirements for the program are as follows:

1. English 101-102. Reading and Composition . . . . .6 semester hours
2. Communication 200. Oral Communication . . . . .3 semester hours
3. Art 200. Art in General Culture *or*  
Music 200. Music in General Culture . . . . .3 semester hours
4. Literature . . . . .3 semester hours  
Selected from Eng. 233, Eng. 234, Eng. 235, Eng. 236, Fr. 327, Fr. 328, Hum. 200, Hum. 201, Span. 310, Span. 327, Span. 328, Rus. 308, Rus. 365, Rus. 366, Lat. 300 or 400 numbered courses except Lat. 410, Lat. 300 and Lat. 358 and any French, German, Russian, or Spanish course on the 400 level.
5. Mathematics . . . . .3 semester hours  
Selected from Math 103, 105, 107, 125, 135, and 235.
6. Physical Education . . . . .3 semester hours  
Any three activity courses.

Modifications of the physical education requirement for health reasons must be authorized by the College Physician through the Vice President for Academic Affairs, therefore, such requests with any supporting recommendations from private or family physicians must be submitted to the College Physician for consideration and approval.

7. Natural Science (a year course in one science or two semesters of two different sciences totaling 8 hours) . . . 8 semester hours  
Selected from Bio. 100, 120, 130, Chem. 101-102, 110, Geol. 100, 100 and 130 or 120 and 130, Phys. 109, 130, 135, or 231-232. (Calculus needs to be taken with Phys. 231-232.)
8. History 255-256. History of Civilization . . . . .6 semester hours
9. Social Science (a year course in one social science or two semesters of two different social sciences totaling 6 hours) 6 semester hours.  
Selected from SoAn. 280, 380, Econ. 220, 230 and 235, Geog. 120, 236, 345, 348, PoSc. 110, 225, 230, Psyc. 231-232, 358, 487, or Soci. 139, 250.

## Credit by Examination

Examinations for credit in courses offered by Madison may be offered to enrolled students who believe they have already mastered the material of the course through private study, technical employment, or the like. The following regulations govern the granting of credit by examination:

1. Any enrolled student may make application to take an examination for credit in any course in the undergraduate curricula. The student should be certain that he has the minimal preparation and background required before he attempts an examination.
2. Examinations may not be given to students in sequential courses numbered lower than those the student has already completed.
3. Permission to take an examination for credit must be obtained from the instructor and the head of the department in which credit is sought.
4. Each department will use its own discretion in developing the form of the examination and its administration.
5. Students may earn as much as 30 semester hours through departmental credit by examinations, with no more than 12 semester hours in one area.
6. To receive credit the student must make a grade equivalent on the examination of at least a C in the course.
7. The examination for each course can be taken only once in a given semester.
8. A fee is charged for the administration of an examination for credit.

## Orientation and Academic Advising

An Orientation Program for all new freshmen, re-entries, and transfers is held during the Summer Session for students entering in the fall, and again immediately prior to spring registration for new students entering in the second semester. Students accepted to Madison College for the fall semester are invited to attend one of the eight orientation programs conducted during the summer. The primary purpose of the two-day sessions is to acquaint the student with the social and academic life at Madison College.

At each session, the President of the college, or his representative, will welcome the incoming students. Student Services personnel will introduce the student to campus life and the student's rights and responsibilities as a member of the college community. The program will cover such topics as student activities, organizations and government, resources such as the medical and counseling services, and residence hall living.

Every new student will be assigned to an academic advisor who will discuss with him Madison's academic policies and procedures, the various programs of study, advanced placement and exemption testing, and registration procedures. The student will also plan with his advisor his schedule of classes for the fall semester. The student will remain with this advisor until the early part of the second semester at which time he is assigned to a departmental advisor in his major field of study.

While orientation is a program designed primarily to assist the student in his initial contact with college life, academic advising is an on-going relationship with the student that extends until he graduates. Shortly after the beginning of the spring semester the freshman student is transferred from his summer advisor to a permanent advisor in the department in which he plans to major. The role of the faculty advisor is to assist and advise the student in the attainment of his educational goal. He does not control the student's program. *Madison College believes that the responsibility of fulfilling the requirements of a particular degree program lies with the student; therefore, he should be familiar with the requirements as outlined for him in his college catalog.*

### **Programs for Improving Basic Academic Skills**

The College provides professional staff for students who need assistance in improving basic academic skills which might be influencing their ability to do satisfactory work in their course assignments. Any student who wishes to take advantage of these services may do so. Students can also be referred to a Laboratory on a voluntary basis by any professor, academic advisor, or the Counseling Center. There is no charge for these services.

*The Study Skills Laboratory:* The Study Skills Lab provides an opportunity for the student to examine his study habits and attitudes that may be influencing his college life. The lab is well equipped and pro-

vides assistance in such areas as listening, note-taking, test-taking, reading and comprehension, writing skills, etc.

*The Writing Laboratory:* The College expects students to be able to demonstrate a satisfactory level of proficiency in the writing of English. For those who show a marked deficiency in writing ability or English proficiency, the College has provided a Writing Lab to improve these skills.

*The Reading Center:* The Reading Center provides a Reading Improvement Program designed to help students build their reading efficiency. Students are tested and provided materials and equipment in accordance with their needs. The materials used are designed for independent study in the Center and are available free although students may purchase the text if they desire.

## Registration

The Schedule of Classes, published a few weeks before the beginning of each semester, contains a detailed outline of the registration procedure. Students are urged to study these schedules carefully and to keep them available for immediate reference during the registration period and throughout the semester. All students are expected to register on the dates indicated in the calendar. Although registration is permitted after these dates, a late registration fee is charged, and there is no reduction in other fees.

In no case is credit allowed in any course for which the student is not duly registered. Registration is not complete until all fees for the semester have been paid.

## Selection of a Major

An entering student, in conference with his advisor, may determine a major program of study. If he has not decided on a specific major, he may register as an "Undeclared" major. The student who has not decided on a major field of study is encouraged to discuss some of his interests with his advisor, professors, Department Heads, and fellow students. The Counseling Center will provide career guidance and testing for those who request it.

## Changing a Major

Any student who desires at any time to change his major should secure a "Change in Major" form from the Records Office.

## Course Load

In all programs the normal load per semester is sixteen (16) hours of credit. The number of actual class hours will vary according to the number of laboratory courses in the program. Any student, including incoming freshmen, may add to the normal load one of the one-credit courses in applied music or physical education without securing special permission, thus making a load of seventeen (17) credits.

An undergraduate course load of at least twelve (12) credit hours a semester is required to live in the dormitory.

Students of sophomore, junior, and senior standing, if they have a cumulative average of "B" or better, may carry as many as nineteen (19) credits without special permission. Seniors who have a minimum average of "C" (2.00) and who need an additional three-credit course in order to meet graduation requirements may also take as many as nineteen (19) credits without special permission. When required, special permission is obtained from the Dean of the School. *A student on PROBATION may not take more than twelve (12) semester hours of work.*

Students who enroll in Education 480c or 480x, Directed Teaching, are not permitted to enroll in additional courses during the eight-week period of full-time student teaching. The recommended semester course load is fifteen (15) semester hours for students who enroll in Education 480a or 480b on the semester plan. For any exception to this, the student should consult the Dean of the School of Education.

For the regular Summer Session, students may enroll for a maximum of 4 semester hours in each of the two Four-Week Terms or 9 semester hours in the Eight-Week Term. If the student enrolls in both of the Four-Week Terms and the Eight-Week Term at one time, the maximum course load is 9 semester hours. With the approval of the Head of the student's major department, a student may enroll for a combination of ten hours.

Students may enroll for only one course during the *May Session*.

## Classification

The classification of a student depends on the number of semester hours of credit he has received.

*Freshmen* are students with fewer than 28 semester hours of credit.

*Sophomores* are students with 28-59 semester hours of credit.

*Juniors* are students with 60-92 semester hours of credit.

*Seniors* are students with more than 92 semester hours of credit.

## Grading System

The College keeps a complete record of each student's work and sends a grade report to the student's permanent address at the end of each session.

Mid-semester reports on courses in which a student is doing failing work are sent to each student and to his advisor; and, in the case of freshmen and sophomores, to his parents also. Mid-semester grades on all courses are sent to freshmen and to their parents.

Academic achievement of a student on a specific course is expressed by letters as follows:

A—Superior.	I—Incomplete.
B—Good.	P—Passable Achievement (pass-fail option).
C—Average.	W—Withdrawal.
D—Passing.	WP—Withdrawal Passing.
F—Failure.	WF—Withdrawal Failing.

*Incomplete Grades.* The "I" symbol is used to indicate *incomplete* work in a given course and is awarded only when a student is unable to complete the course work because of illness or some other equally compelling reason. Courses in which a student receives a grade of "I" must be completed by the end of the next regular semester or the grade is recorded permanently as "F." Consideration may be given to special circumstances upon written request by the student to the Vice President for Academic Affairs.

## Grade Appeal Procedure

A student who wishes to appeal a grade must follow the steps of this procedure in the order listed:

1. *Confer with the faculty member.* The student should state at this conference the reason or reasons he feels a change of grade is warranted. At this meeting the faculty member has the obligation to explain to the student the basis for determining the grade which the student was awarded. If the faculty member does not feel that a change of grade is warranted, the student may appeal to the:
2. *Head of the Department* in which the course is offered
3. *Dean of the School* in which the course is offered
4. *Vice President for Academic Affairs*

At each level of appeal, there is the responsibility to confer with the faculty member and the authority to require the faculty member to



review the basis used in determining the grade which was awarded to the student.

Upon agreement to a grade change at any level of appeal, the faculty member initiates the Change of Grade.

### Attendance

A student's participation in the work of a course is clearly a pre-condition of his receiving credit in that course. Because of the wide variety of courses and teaching methods at Madison, the College recognizes that the nature of a student's participation in the work of a course cannot be prescribed on a College-wide basis. For this reason classroom attendance is not a matter subject to regulation by the College. A student's attendance in class and laboratory is rather a matter between him and the professor in that class or laboratory.

### Pass-Fail

1. A student is eligible to take a course on a pass-fail basis if he has completed at least twenty-eight (28) semester hours at Madison and has attained a 2.25 cumulative grade point average. A transfer student may take courses on the pass-fail option if he has completed twenty-eight (28) semester hours with at least fourteen (14) semester hours at Madison. Note: A student is permitted to register for physical education activity courses (one credit hour each) on a pass-fail basis at any time, without regard to minimum hours completed or grade point average.
2. Courses which may be taken on a pass-fail basis are:
  - (a) Basic Studies, program, and degree requirements courses outside of the student's *major or minor department and*
  - (b) electives outside of the student's major or minor department.
3. A total of fifteen (15) semester hours may be taken on a pass-fail basis with a maximum of four (4) semester hours per semester or one course of more than four (4) semester hours.
4. Students must declare at registration the course or courses they plan to take on a pass-fail basis.
5. Changes from pass-fail to letter grades or from letter grades to pass-fail will not be allowed later than one week after classes begin.

6. Pass-fail grades will apply only to final grades. All course work and quizzes will be graded as for other students in the course.
7. Students taking a course on a pass-fail basis will not be identified to the instructor.
8. Letter grades will be submitted by instructors to the Director of Records who will change all grades of "A" through "D" to "P" for those enrolled under the pass-fail option.
9. A grade of "P" will not affect the student's grade point average; however, a grade of "F" in courses taken on pass-fail will be treated in the same way when calculating grade average as an "F" in any other course.

### Course Adjustment

After a student has completed his class schedule and has registered, no classes may be dropped, no additions made, and no transfers to other sections made without the approval of his faculty advisor.

A fee of \$5.00 is required for any adjustment made after the "no fee" schedule adjustment period as specified in the College Catalog. The \$5.00 fee must be paid unless the change is necessitated by circumstances beyond the student's control and the fee is waived by the Dean of Admissions and Records.

#### *Withdrawal from a course:*

- A. Up to the end of the fifth week of semester courses (third week for block courses) a student may withdraw from any course with a "W", with the permission of his advisor only, regardless of whether he is passing or failing at the time of withdrawal.
- B. After the end of the fifth week, no student may withdraw from a course without (a) the permission of his advisor, (b) the signature of the instructor and the indication by the instructor that the student is passing at the time of withdrawal. If the student does not have a "D" or above grade at the time of withdrawal, the grade will be recorded as "WF".
- C. After the end of the tenth week of classes (sixth week for block courses) no student may withdraw from a course without receiving a grade of "WF" unless the withdrawal stems from extenuating circumstances beyond the student's control. Withdrawal after the tenth week requires approval by the student's advisor and the Dean of the School. Dropping a course without permission incurs the grade of "F".

*Adding a course*—A course being added requires the signature of the advisor, the Records Office, and the Treasurer's Office. The last day to add is as specified in the College Catalog. A course added after the specified deadline must be approved by the Head of the Department in which the course is offered.

### Final Examinations

Students are expected to attend final examinations at their scheduled periods. With extenuating circumstances, however, faculty members may approve a student's request for an exception. Students whose request for an exception is disapproved by a faculty member have the right to appeal to the Department Head, Academic Dean, or Vice President for Academic Affairs, in turn. No appeal will be favorably considered without prior consultation with the faculty member.

### Withdrawal From the College

A student withdraws from the college when he terminates his enrollment before completing the semester or Summer Session period for which he registered. A student desiring to withdraw must have a conference with the Director of Student Affairs and complete the withdrawal request form available in the Student Affairs Office. Students who are unsure about withdrawing are encouraged to talk to a member of the Counseling Center staff before initiating withdrawal procedures.

The Director of Student Affairs reports the withdrawal to the Dean of Student Services who must approve such requests, set the official withdrawal date, and notify other college offices of the action. *Strict compliance with this requirement is mandatory.* A student who voluntarily withdraws without receiving official approval, will receive a grade of "WF" for all courses in which he is enrolled. A student voluntarily withdrawing with official approval will receive a "WP" in all courses where at the time of withdrawal the grade is "D" or above. The "WF" grade will be recorded in all courses where at the time of withdrawal the work is below a "D" grade. A student who withdraws due to extenuating circumstances, such as illness, will receive a "WP" in all courses upon recommendation of the Dean of Student Services.

An adjustment in charges will be figured from the official date of withdrawal. No adjustment in charges will be made unless the withdrawal form is received in the Office of Student Affairs within thirty days after leaving the campus. Adjustments will not include non-refundable fees or charges.

## Quality Rating System

Quality points are assigned per semester hour of credit as follows: A grade of "A" is assigned 4 quality points; "B," 3 quality points; "C," 2 quality points; and "D," 1 quality point. Thus a grade of "B" in a course bearing 3 semester hours of credit would be assigned 9 quality points and a grade of "C" in that course, 6 quality points. A grade of "P" carries no quality point designation, and the semester hours of "P" credit earned are not used in determining a student's quality point average. An "I" grade carries no quality points.

The *quality credit average* is computed by dividing the number of quality points by the number of semester hours of credit. Thus, if a student takes sixteen (16) semester hours of work and earns forty (40) quality points, his quality credit average is 2.50. *Grades earned at other institutions are not used in computing the Madison quality credit average.*

A, B, C, D, and F grades earned at Madison are used in computing the quality credit average. A student has the privilege of repeating a course in an attempt to improve the grade previously made. The grade earned the last time the course is taken is the grade that will be considered as the final grade and used in the computation of the grade point average.

To enroll in Education 360, 470, 480 (Directed Teaching), Elementary Education 369 and Secondary Education 370, or other junior or senior Education courses prerequisite to student teaching, a student must have a quality credit average of 2.00.

## Dean's List

To qualify for the honor of being placed on the Dean's List, a student must earn a scholarship index of 3.25 and carry a course load of at least fourteen (14) semester hours, twelve (12) of which must be in addition to any courses taken on pass-fail.

## Retention Policy

The retention policy defines the minimum scholarship requirement for good standing and permission to enroll in a subsequent semester or summer session.

Sem. Hrs. Attempted	Academic Warning (Quality Point Deficiency)	Academic Probation (Quality Point Deficiency)	Academic Suspension (Quality Point Deficiency)
0-34	1-12	13-23	24 or more
35-68	1-9	10-17	18 or more
69-102	1-6	7-11	12 or more
103		1-5	6 or more

1. Quality point deficiency is twice the number of semester hours attempted at Madison minus the number of quality points earned at Madison.
2. A student is subject to suspension if fewer than six (6) semester hours are passed in any semester.
3. If a student is on academic probation for two successive semesters, he is not eligible to return the following semester unless probation has been removed prior to the beginning of the semester.
4. A student who is placed on academic suspension may apply for readmission after one calendar year and must have his record reviewed before admission is granted.
5. Retention standards are the same for transfer students as any other student except that semester hours include all semester hours accepted for transfer credit.

#### Academic Status and Retention

Academic status for a student is denoted as follows:

1. Good Standing
2. Academic Warning
3. Academic Probation
4. Academic Suspension

#### Good Standing

A student is in "Good Standing" if his cumulative quality point average is 2.00 or above.

#### Academic Warning

The status of "Academic Warning" indicates that a student has a cumulative grade point average of less than 2.00, but that his grade point deficiency is not sufficient to warrant his being placed on "Academic Probation".

## Academic Probation

1. A student on academic probation may not take more than twelve (12) semester hours of work.
2. A student may not hold a major student government position while on academic probation.
3. A student on academic probation may not represent the College in athletics or performing arts.
4. A student on academic probation is expected to confer regularly with his academic advisor and is encouraged to participate in the Study Skills Laboratory.

## Academic Suspension

A student who is placed on academic suspension may apply for readmission after one calendar year. However, if there are extenuating circumstances associated with his academic deficiency, he may appeal to the Retention Committee for reinstatement the following semester. The appeal must be in writing and should be sent to Dean Julius B. Roberson, Secretary of the Retention Committee.

## Graduation with Distinction

A degree *with distinction* is awarded in several departments to persons who successfully undertake a program of independent reading, studies, and an Honors thesis for six (6) semester hours credit during the senior year. Application to work for distinction are limited to juniors who have achieved at least a 3.25 average and, in addition, have given evidence of sufficient initiative, originality, and intellectual maturity to warrant expectation of distinction in the program.

Applications shall be made at the completion of the first semester of the junior year to the Honors Committee. Acceptance for participation is solely determined by this Committee which must also approve the individual program for each student and designate a faculty member to direct the study. The thesis is expected as the culmination of the program. Instructions for application for Honors may be obtained at the *Office of the Vice President for Academic Affairs*.

## Graduation with Honors

In order to be eligible for graduation *with honors*, the student must have been in residence two years or more at Madison College and have completed a minimum of sixty semester hours of course work on campus. The student must have a cumulative average as given below

on all course work including that taken at any other college and must maintain at least the minimum average required for *Honors* (3.25) in work at Madison College.

The average for determining *Honors* is computed at the end of the semester preceding the semester in which final graduation requirements are met. The following cumulative averages are required for *Honors*:

<i>cum laude</i>	3.25-3.499
<i>magna cum laude</i>	3.50-3.749
<i>summa cum laude</i>	3.75 and above

#### **Regulations Regarding Transfer of Credit from Other Institutions**

A student wishing to earn credits at another institution, either in the summer or during a regular session, must obtain permission in advance from the Records Office. The Records Office will make the determination concerning the course and its application toward a Madison College degree following consultation with the Head of the Department, if necessary. The student is responsible for having an official transcript mailed to the Admissions Office when the work has been completed.

#### **Computing Quality Point Averages of Readmitted Students**

Students who return to Madison College after a separation of two calendar years and who maintain a 2.00 quality point average for twelve semester hours may be given the option of requesting a quality point status equivalent to that of transfer students admitted to Madison College.

The following regulations will govern this option:

1. The option must be exercised immediately upon completion of twelve semester hours following readmission.
2. Consultation with the Dean of the School in which the student is majoring is required.
3. All grades will remain a part of the transcript.
4. Eligible students will receive degree credit for only those courses for which grades of C or better were earned prior to readmission.
5. Quality points earned for any course completed prior to re-admission will not count in determining the student's new cumulative quality point average.

6. The option will be extended only once during the student's enrollment at Madison College.

## Study Abroad

Madison College offers a study abroad program during the summer session. Information regarding the program can be obtained from the Dean of the Summer Session.

Qualified students may study in a foreign university during their junior year, and under special circumstances during the sophomore year. Information about American Association of College and University International Study Centers in Mexico, Canada, and Italy can be obtained from Dr. Frank Gerome, History Department, the AASCU Campus Advisor.

Madison College will accept credits earned abroad, at approved institutions, in general accordance with its policy of accepting transfer credits. Approval of proposed study programs must be obtained from the Head of the Department, the Dean of the School, and the Vice President for Academic Affairs. Students who plan to study abroad may wish to consult with Mr. John Stewart, Chairman of the Foreign Studies Committee, for information on these programs.

## Graduation Requirements

To receive a degree from Madison College, a student must—

1. Have a minimum of 128 credit hours;
2. Have a scholarship index of 2.00 or better;
3. Have a scholarship index of 2.00 or better in his major subject;
4. Meet the course requirements of one of the curricula leading to the degree for which he is a candidate;
5. Have spent a minimum of two semesters in residence at Madison College, and have earned a minimum of thirty-two (32) semester hours of credit during this term of residence;
6. Be a student at Madison College during the semester in which the requirements for the degree are completed;
7. Attendance at graduation is expected. If a student is unable to be present for the graduation exercises, he must notify the Director of Records at least twenty-one days before Commence-



ment. Because of special handling, a nonrefundable fee of \$5.00 is required for mailing the diploma.

8. At least sixty (60) semester hours must be taken at an accredited senior institution of higher education.

A student expecting to graduate at the end of any semester must file a *written application with the Director of Records at the beginning of that semester.*

*Responsibility for meeting the requirements for graduation rests with the student.*

### Choice and Change of Catalog

The particular catalog under which a student meets degree requirements is determined by the following policies:

1. A freshman at Madison enters under the current catalog. Freshmen who enter in summer meet the catalog requirements for the class entering the following fall.
2. A transfer student may elect one of two catalogs:
  - (a) The current one.
  - (b) The catalog that most of the members of his graduating class are using.
3. A student who re-enters Madison after an absence of a semester or more returns under the current catalog or the catalog of his graduating class.

### Change in Catalog

1. If a student wishes to change catalogs, he may elect the current catalog or, if a transfer or re-entry, the one that most of the members of his graduating class are using.
2. There is no limit to the number of catalog changes the student may make as long as he adheres to the aforementioned stipulations.

### Procedures

1. The student is required to complete a "Change in Catalog" form obtained from the Records Office, and return it to the same office with his advisor's signature designating approval of the change.

2. The Records Office will note the catalog change on the check sheet and record the work completed on a new check sheet, if necessary.

### Transcript

The transcript of a student's permanent course record is released only upon the written request of the student or former student and for authorized research purposes. The transcript is the official record of grades earned to date and includes the date of graduation, degree received, and date of withdrawal or dismissal. Official transcripts (with the College seal attached) are not released directly to the student, but are mailed directly to another college or authorized agency. The first transcript is sent without charge. For subsequent copies the fee is two dollars (\$2.00) for one transcript. If a request is for two or more copies to the same address, the fee is two dollars (\$2.00) for the first copy and fifty cents (50¢) for each additional copy. Payment must accompany the request.

### Collegiate Professional Certificate

The programs of study for teachers lead to the Bachelor's degree and the Collegiate Professional Certificate.

For endorsement of the certificate to teach a specific subject, an average of 2.00 or above in that subject is required. A grade of "C" or higher on student teaching is required for a teacher's certificate.

For information relative to renewal, extension, or reinstatement of certificates, the student should write to the Director, Division of Teacher Education in the State Department of Education at Richmond.

### Accelerated Degree Program

The Degree in Three Plan, a plan through which students can complete a four-year program in three years by taking courses in the summer session as well as the regular session, is being emphasized at Madison College because of the increasing number of students who wish to complete their formal education in a shorter period of time. Although new in emphasis, this program is not new in its conception. Madison College initiated its all-year program in 1929—the first Virginia college to do so.

Along with the regular Degree in Three Plan, Madison College offers a variety of other means through which students can earn credit

toward their degree outside the traditional classroom setting. These include:

The Admission of High School Students as Special Students—See page 65 for information concerning this special program of admission.

Admission of Freshmen with Advanced Placement—Consult page 60 for information concerning the College Board Advanced Placement Program.

The College Level Examination Program (CLEP)—Consult page 61.

Independent Study—Every department at Madison College offers a course designed to give capable students an opportunity to do independent study under faculty guidance. Such courses often carry more than the normal three-hour credit for a semester's work. In addition, they allow especially capable students to work at their own, often accelerated pace. Arrangements for independent study should be made through individual instructors.

Study Abroad—For information concerning opportunities to study in foreign nations, consult page 83.

### **Earning of a Second Baccalaureate Degree**

A student who has previously earned a baccalaureate degree may earn a second baccalaureate degree by meeting the following requirements:

1. Completion of a minimum of thirty-two (32) semester hours of course work beyond that taken in earning the first degree. Five hundred (500) level courses, taken for undergraduate credit, may be included in the program, but cannot be changed later to graduate credit.
2. Completion of a minimum of two (2) semesters in residence, including that semester in which the requirements for the second degree are met.
3. Meeting of all pre-requisite and course requirements in the second degree program.
4. Earning a cumulative quality point average of 2.00 or higher with 2.00 or higher in the second major.

## Course Numbering System

The unit of credit is the semester hour. It is defined as one lecture or two laboratory hours per week for one semester.

Each department section contains a listing of course offerings entitled "Description of Courses". The official course title appears in italics following the course number. If a course has a separate laboratory period, the number of lecture hours and the number of laboratory hours per week will be shown in parentheses. If the course has no laboratory period, this information within the parentheses will be deleted.

Courses numbered 100-199 are intended for *freshmen*

Courses numbered 200-299 are intended for *sophomores*

Courses numbered 300-399 are intended for *juniors*

Courses numbered 400-499 are intended for *seniors*

(The Honors Thesis course required for a degree *with distinction* is numbered 499.)

Courses numbered 500-599 are designed primarily for *graduate students* but are open to qualified *undergraduates* who may register for these courses for undergraduate credit with the approval of their advisors.

Courses numbered 600 or above are open only to students admitted to the Graduate School.

Some courses are not offered every semester. To determine the courses offered for a particular semester, or Summer Session, the student should consult the Schedule of Classes for that session.

## CONTINUING STUDIES

The Office of Continuing Studies sponsors a variety of courses and programs at the post-secondary level. In addition to credit courses offered off-campus and in the evening which are applicable toward a degree, there are other activities aimed at enhancing professional competencies, occupational skills, and enriching the cultural programs now available to those within the region served by the College. These include workshops, conferences, seminars, and non-credit courses that can be offered either on or off campus.

Madison College recognizes that many people cannot attend college on a full-time basis, and that some potential students have educational needs that do not conform to traditional academic programs. Consequently, the Office of Continuing Studies attempts to develop programs and sponsor courses oriented toward the special requirements of these people. Programs leading to certificates attesting to completion of a block of instruction in specified content areas, courses for recertification or educational renewal in several professional areas, courses that cut across traditional academic disciplines, and programs designed to meet specific cultural, vocational, and professional needs are available and will be developed as needed.

As part of its responsibility as a multi-purpose state regional college, Madison College is the focal member of the Valley of Virginia Consortium for Higher Education, and coordinates its off-campus activities through this agency to insure the most varied, efficient, and valuable educational contribution possible.

Information pertaining to the courses and programs of the evening session, off-campus courses, workshops, conferences or other continuing studies activities is available upon request from the Office of Continuing Studies at Madison College, Harrisonburg, Virginia 22801.

## THE GRADUATE SCHOOL

The Graduate School at Madison College was formally established in 1954, when the College was authorized by the State Board of Education to offer programs leading to the degrees of *Master of Arts in Education* and *Master of Science in Education*. The graduate program was approved by the Southern Association of Schools and Colleges in the same year. In 1960 the State Board of Education authorized the College to offer programs leading to the *Master of Science* degree with majors in Biology and in Mathematics. The *Master of Arts* degree in other fields and the *Master of Business Administration* degree were authorized by subsequent actions of the State Council of Higher Education. On October 24, 1973, the award of the *Master of Arts in Teaching* and the *Master of Education* degrees was authorized.

Correspondence concerning Graduate Programs and requests for the Graduate Catalog and Application For Admission to Graduate Studies should be addressed to the Dean of the Graduate School, Madison College, Harrisonburg, Virginia 22801.

# School of Arts and Sciences

DR. JOHN SWEIGART, *Dean*

The School of Arts and Sciences offers instruction in those disciplines which relate to man's cultural, social, and scientific achievement. These studies form the basis for specialization in all programs of study in the College, those in the liberal arts and sciences as well as in professional studies. It offers the student the opportunity to develop intellectual initiative, independence of thought, and discriminating judgments in order to deal effectively with the issues of contemporary life. The School includes the Departments of Art, Biology, Chemistry, Communication Arts, English, Foreign Languages, Geology, History, Mathematics, Music, Philosophy and Religion, Physics, Political Science and Geography, and Sociology. It is the aim of Madison College to provide excellent instruction in the course content offered by these departments as well as to develop the students' abilities to think and to respond to ideas. This liberal arts tradition is designed to prepare the student to become a responsible as well as a responsive citizen in both his personal and community life.

## SCHOOL OF ARTS AND SCIENCES

### DEPARTMENTS

Art.....	Dr. J. David Diller, <i>Head</i>
Biology.....	Dr. Gilbert S. Trelawny, <i>Head</i>
Chemistry.....	Dr. Benjamin A. DeGraff, <i>Head</i>
Communication Arts.....	Dr. Donald L. McConkey, <i>Head</i>
English.....	Dr. Mark D. Hawthorne, <i>Head</i>
Foreign Languages.....	Dr. Elizabeth B. Neatrour, <i>Head</i>
Geology.....	Mr. Wilbur T. Harnsberger, Jr., <i>Head</i>
History.....	Dr. Raymond C. Dingledine, Jr., <i>Head</i>
Mathematics.....	Dr. William M. Sanders, <i>Head</i>
Music.....	Dr. Gordon L. Ohlsson, <i>Head</i>
Philosophy and Religion.....	Dr. William E. Callahan, <i>Head</i>
Physics.....	Dr. Robert E. Kribel, <i>Head</i>
Political Science and Geography.....	Dr. Russell F. Farnen, Jr., <i>Head</i>
Sociology.....	Dr. Robert V. Guthrie, <i>Head</i>

## INTERDISCIPLINARY PROGRAMS

The School of Arts and Sciences offers twelve interdisciplinary Programs in the Humanities, Natural Sciences, and Social Sciences.

American Studies	Medical Technology
Classical Studies	Pre-Dentistry
General Science	Pre-Medicine
General Social Science	Pre-Nursing
Latin American Studies	Pre-Physical Therapy
Russian Studies	
Sino-Soviet Studies	

### Interdisciplinary Minor in American Studies

The minor in American Studies is based upon the desirability of developing a coordinated understanding of American civilization, past and present, acquired through (1) selected courses offered by traditional departments and (2) special courses offered by the program itself. Focus in humanistic subjects and the social sciences will provide the student with the means of exploring the interrelationships among diverse aspects of our culture and changing patterns of ideas and values.

The program is open to all undergraduate students at Madison College enrolled in Bachelor of Arts and Bachelor of Science degree programs. The requirements are the successful completion of 24 hours drawn from the list of courses on pgs. 92-93. These 24 hours must include 6 hours of 100 or 200 numbered courses and 18 hours of 300, 400, or 500 numbered courses. Three of the 18 hours must come from 490 or 500 numbered courses. A student must take the 24 hours in at least three different academic areas. No course may be used to count toward both a student's major program of study and the American Studies Minor. Sections oriented toward the needs of students taking part in the program will be designated in the 100 or 200 level courses. (Program co-chairmen will maintain such a list.)

The American Studies minor is administered by the History and English Departments. Further information may be secured from Dr. Sidney Bland, History Department, Jackson 215, or from Dr. Cameron Nickels, English Department, Keezell 213.



## American Studies Courses

### Anthropology

- 286 — American Folk Culture
- 490 — Special Studies in Anthropology\*

### Art

- 408 — The Arts in America
- 490 — Special Studies in Art\*

### Business Administration-Economics

- 478 — Economic History of the United States

### Communication Arts

- 335 — Free Speech in America
- 490 — Special Studies in Communication Arts\*

### English

- 247 — Survey of American Literature
- 248 — Survey of American Literature
- 408 — Development of the American Short Story
- 425 — The American Novel to 1930
- 440 — American Romanticism 1820-1865
- 442 — Southern Literature
- 450 — American Realism and Naturalism to 1914
- 510 — Special Authors Seminar\*
- 512 — Special Topics Seminar\*

### Geography

- 236 — Geography of Anglo-America

### History

- 233 — U. S. History
- 234 — U. S. History
- 348 — Colonial American History
- 350 — Virginia History
- 355 — Afro-American History to 1877
- 356 — Afro-American History since 1877
- 425 — Civil War and Reconstruction
- 430 — The United States and the Contemporary World
- 490 — Special Studies in History\*
- 520 — U. S. History 1763-1800
- 525 — U. S. History 1800-1850
- 530 — U. S. History 1877-1919
- 531 — Recent U. S. History

### Philosophy

- 370 — American Philosophy
- 490 — Special Studies in Philosophy\*

\*When the topic is applicable to American studies.

## Political Science

- 225 — U. S. Government
- 226 — State and Local Government
- 308 — Current Problems in Political Science
- 330 — American Political Thought
- 490 — Special Studies in Political Science\*
- 540 — Problems of American National Government
- 550 — Problems in State and Local Government

## Religion

- 340 — Religion in America
- 490 — Special Studies in Religion\*

## Sociology

- 139 — Introduction to Sociology
- 364 — American Sects and Cults
- 490 — Special Studies in Sociology\*
- 530 — The Negro in America

\*When the topic is applicable to American studies.

## Classical Interdisciplinary Studies Program

The Classical Interdisciplinary Studies Program is designed to give the student a knowledge not only of the Latin language and Latin literature, but also of the broad cultural background of Greek and Roman civilization. Acting on the conviction that the values of Classical culture cannot be fully grasped without some knowledge of Greek and Roman society, including religion, politics and economics, as well as art and architecture, Madison College has instituted an interdepartmental degree program. This integrated approach to the study of a society should provide the student with broader insights into the human experience than he would be likely to attain in more highly specialized studies.

A student selecting this major can be certified to teach Latin. If he wishes certification in History as well, he should consult the Director of Records.

The Classical Interdisciplinary Studies Program consists of the following courses:

Art 205.	Art History: Prehistoric Through Medieval Art.....	3 credits
Art 503.	Studies in Greek Art.....	3 credits
Eng. 317.	World Literature.....	3 credits

Hist. 476.	Ancient History.....	3 credits
Hist. 477.	Medieval History.....	3 credits
Hum. 200.	The Age of Pericles.....	3 credits
Lat. 300.	Dynamics of Power in the Roman Empire.....	3 credits
Lat. 358	Classical Civilization.....	3 credits
Phil. 340.	Ancient and Medieval Philosophy.....	3 credits

plus

12 credits in the following options:

A. (Students not wanting a teaching certificate in Latin)

Art 490.	Special Studies in Art.....	3 credits
Eng. 490.	Special Studies in English.....	3 credits
Hist. 490.	Special Studies in History.....	3 credits
Phil. 490.	Special Studies in Philosophy.....	3 credits
	or Rel. 490. Special Studies in Religion.....	3 credits

or

B. (Students wanting a teaching certificate in Latin)

Latin Electives. Roman literature selected from Latin courses above 300.....	12 credits
Total .....	39 credits

### Four-Year Program (B.A. Degree) for a Major in Classical Interdisciplinary Studies

#### FRESHMAN YEAR

	<i>Credits per Semester:</i>	
	<i>1st</i>	<i>2nd</i>
Comm. 200. Oral Communication .....	0	3
Eng. 101-102. Reading and Composition .....	3	3
Hist. 255-256. History of Civilization .....	3	3
Basic Studies Art 200 or Mus. 200 .....	3	0
Basic Studies Mathematics .....	0	3
Basic Studies Physical Education .....	1	1
Basic Studies in Social Science .....	3	0
Foreign Language .....	3-4	3-4
	<hr/>	<hr/>
	16-17	16-17

SOPHOMORE YEAR

Art 205. Art History: Prehistoric Through Medieval Art .....	3	0
Eng. 317. World Literature .....	3	0
Hum. 200. The Age of Pericles .....	3	0
Phil. 240. Introduction to Philosophy .....	0	3
Basic Studies Natural Science .....	4	4
Basic Studies Physical Education .....	1	0
Basic Studies in Social Science .....	0	3
Foreign Language .....	3	3
Electives .....	0	3
	<hr/>	<hr/>
	17	16

JUNIOR YEAR

Hist. 476. Ancient History .....	3	0
Hist. 477. Medieval History .....	3	0
Lat. 300. Dynamics of Power in the Roman Empire (in English) .....	0	3
Lat. 358. Classical Civilization .....	3	0
Phil. 340. Ancient and Medieval Philosophy .....	3	0
Electives .....	5	12
	<hr/>	<hr/>
	17	15

SENIOR YEAR

Art 490. Special Studies in Art .....	0	3
Art 503. Studies in Greek Art .....	3	0
Eng. 490. Special Studies in English .....	3	0
Hist. 490. Special Studies in History .....	0	3
Phil. 490. Special Studies in Philosophy or Rel. 490. Special Studies in Religion .....	3	0
Electives .....	8	9
	<hr/>	<hr/>
	17	15

**Four-Year Program (B.A. Degree) for a Major in Classical  
Interdisciplinary Studies Qualifying for a Secondary Collegiate  
Professional Certificate (128 Credits)**

FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Comm. 200. Oral Communication .....	0		3
Eng. 101-102. Reading and Composition .....	3		3
Hth. 200. Elements of Health Education .....	2		0
Hist. 255-256. History of Civilization .....	3		3
Lat. 101-102. Elementary Latin (or Lat. 231-232. Intermediate Latin) .....	3-4		3-4
Basic Studies Art 200 or Mus. 200 .....	3		0
Basic Studies Mathematics .....	0		3
Basic Studies Physical Education .....	1		1
		<hr/>	<hr/>
		15-16	16-17

SOPHOMORE YEAR

Eng. 317. World Literature .....	3		0
Hist. 233 or 234. United States History .....	0		3
Lat. 231-232. Intermediate Latin .....	3		3
Psyc. 233-234. Human Growth and Development .....	3		3
Basic Studies Natural Science .....	4		4
Basic Studies Physical Education .....	1		0
Basic Studies Social Science .....	3		3
		<hr/>	<hr/>
		17	16

JUNIOR YEAR

Art 205. Art History: Prehistoric Through Medieval Art .....	3		0
Educ. 360. Foundations of Curriculum .....	3		0
SeEd. 370. Methods and Materials in Teaching in the Secondary School .....	0		2
Hist. 476. Ancient History .....	0		3
Hist. 477. Medieval History .....	3		0
Lat. 300 or 400 level courses .....	6		6
Lat. 358. Classical Civilization .....	0		3
Phil. 240. Introduction to Philosophy .....	0		3
		<hr/>	<hr/>
		15	17

SENIOR YEAR

Art 503. Studies in Greek Art .....	3	0
Educ. 470. History and Philosophy of Educational Thought ....	3	0
Educ. 480. Directed Teaching .....	0	8
FL. 350. Teaching of Foreign Languages .....	3	0
Hum. 200. The Age of Pericles .....	3	0
Lat. 300. Dynamics of Power in the Roman Empire .....	0	3
Lat. 300 or 400 level courses .....	3	3
Phil. 340. Ancient and Medieval Philosophy .....	0	3
	15	17

Recommended Electives

Art 306. Art History: Renaissance .....	3
Art 483. Aesthetics .....	3
Comm. 421. Survey of Rhetorical Theory and Criticism .....	3
Comm. 441-442. Development of the Drama .....	3-3
Eng. 240. Mythology .....	2
Eng. 318. World Literature .....	3
Eng. 320. Literature of the Augustan Age .....	3
Eng. 340. Romantic Poetry .....	3
Eng. 360. Studies in Comparative Literature .....	3
Eng. 503. Milton .....	3
Eng. 535. History of Literary Criticism .....	3
Eng. 560. Currents of Thought in the Early Renaissance .....	3
Phil. 420. Studies in Major Philosophers .....	3
PoSc. 310. Political Theory .....	3
SoAn. 280. General Anthropology .....	3

Further information concerning this program may be obtained by consulting Dr. Robert Lisle, Department of Foreign Languages, Advisor to the program.

Humanities Interdisciplinary Courses

In addition to its course offerings, the School of Arts and Sciences offers the following interdisciplinary courses:

HUM. (TV) 100. *Classical Mythology in Art, Music and Literature*, 3 credits.

An introduction to classical mythology as it appears in music and literature.

HUM. 200. *The Age of Pericles*, 3 credits.

A multi-dimensional study of the forces that shaped the highest cultural and intellectual achievement of Greek civilization, the course will feature an interdisciplinary approach and will be taught by a team of instructors representing the Departments of English, History, Political Science, Art, and Foreign Languages. Students will examine the interrelationships among politics, drama, art, and the attitudes of intellectuals in fifth-century Athens.

HUM. 201. *Spirit and Symbol: Romantic and Modern*, 3 credits.

HUM. 202. *Spirit and Symbol: Renaissance and Baroque*, 3 credits.

Humanities 201 and 202 are courses which offer an interdisciplinary investigation of the humanistic, artistic, and cultural forces and the interplay of these forces in art, music, rhetoric, literature, and philosophy. The comparative approach encompasses leading works, figures, themes, movements, and contexts using faculty from the humanities. The two semesters are complementary, the first studying the contemporary and its immediate antecedents, the second investigating the relationships between the Renaissance and the Baroque periods.

HUM. 300. *Meaning and Response in the Arts*, 3 credits.

An interdisciplinary, team-taught course whose focus is the aesthetic experience and the means by which the artist—whether he is a painter, sculptor, musician, film director, or writer—makes that experience happen. Specific works in the visual arts, in music, in literature and the cinema are examined to unfold the creative process, in which the artist functions as shaper, synthesizer, and inventor of new effects to trigger a particular kind of response in the spectator-listener.

#### Four-Year Program for a Major in General Science

This program is an interdisciplinary major in general science. It is designed for prospective high school teachers of general science and meets all requirements for a teacher's certificate with endorsement to teach general science. Courses can be chosen to meet the requirements for endorsement to teach at least one of the four areas of science represented in the program.

The requirements for a major in general science are as follows:

1. At least eight (8) semester hours in each of the Departments of Biology, Chemistry, Geology, and Physics.
2. Mathematics 105-106, or 125-126, or 235-236.
3. Science 490 (Seminar for Science Teachers).
4. Other courses in biology, chemistry, geology, or physics to total forty-eight (48) hours in science courses.

A minor in general science requires eight (8) credits in each of three of the following: biology, chemistry, geology, or physics. Two (2) semester hours of Science 490 are also required if the student wishes to be recommended for certification to teach science in high school.

Students interested in a major in general science should consult Dr. H. Kent Moore, 10 Burruss Hall.

**Four-Year (B.S. Degree) Program for a Major in General  
Science Qualifying for the Secondary Collegiate Professional  
Certificate**

FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Eng. 101-102. Reading and Composition .....	3	3	3
Math. 125-126. Introduction to College Mathematics .....	3	3	3
Science Electives .....	4	4	4
Science Electives .....	4	4	4
Basic Studies Physical Education .....	1	1	1
Electives .....	1	1	1
	—	—	—
	16	16	16

SOPHOMORE YEAR

Comm. 200. Oral Communication .....	3	0	0
Hth. 200. Elements of Health Education .....	0	2	2
Hist. 233 or 234. United States History .....	3	0	0
Psyc. 233-234. Human Growth and Development .....	3	3	3
Science Electives .....	6	5	5
Basic Studies Art 200 or Mus. 200 .....	0	3	3
Basic Studies Literature .....	0	3	3
Basic Studies Physical Education .....	1	0	0
	—	—	—
	16	16	16

JUNIOR YEAR

Educ. 360. Foundations of Curriculum .....	0	3	3
SeEd. 376. Methods and Materials for Teaching in the Secondary School—Science .....	3	0	0
Hist. 255-256. History of Civilization .....	3	3	3
Science Electives .....	4	4	4
Electives .....	6	6	6
	—	—	—
	16	16	16

SENIOR YEAR

Educ. 470. History and Philosophy of Educational Thought ....	0	3	3
Educ. 480. Directed Teaching .....	0	8	8
Sci. 490. Seminar for Science Teachers .....	2	0	0
Electives .....	14	5	5
	—	—	—
	16	16	16



## Sciences Courses

In addition to the course offerings of the science departments, the following interdepartmental courses are offered:

SCI. 310. *Science in the Elementary School* (3, 2), 4 credits.

A science course which deals with the methods, materials, and literature of biological and physical science in the elementary school. The laboratory work consists of activities selected jointly by the students and the instructors on the basis of value for elementary school teaching.

SCI. 490 B-C-G-P. *Seminar for Science Teachers* (0, 2), 1 credit.

B—Biology; C—Chemistry; G—Geology; P—Physics.

Centers about problems encountered in teaching general science, biology, chemistry, geology, and physics. Students will work on selected problems in these fields using reports, discussions, demonstrations, audiovisual aids, and other instructional materials. *Prerequisite: A course in the science discipline appropriate to the section for which the student is registered*

## Major in General Social Science

The major in General Social Science is forty-eight (48) semester hours with eighteen (18) semester hours in History, twelve (12) hours in Political Science, six (6) hours in Economics, six (6) hours in Geography, and six (6) hours in Sociology-Anthropology. A minor is not offered in General Social Science. Students seeking information concerning this program should contact Dr. Arthur Hall, Harrison A125.

## Four-Year Program (B.A. Degree) for a Major in General Social Science (128 or 130 Credits)

### FRESHMAN YEAR

	<i>Credits per Semester:</i>	
	<i>1st</i>	<i>2nd</i>
Comm. 200. Oral Communication . . . . .	3	0
Eng. 101-102. Reading and Composition . . . . .	3	3
Hist. 255-256. History of Civilization . . . . .	3	3
PoSc. 110. Introduction to Political Science . . . . .	3	0
Soci. 139. Introduction to Sociology . . . . .	0	3
Basic Studies Art 200 or Mus. 200 . . . . .	0	3
Basic Studies Physical Education . . . . .	1	1
Basic Studies Science . . . . .	4	4
	<hr/>	<hr/>
	17	17

### SOPHOMORE YEAR

Econ. 230-235. Principles of Economics .....	3	3
†Foreign Language .....	3-4	3-4
Geog. 120. Introduction to Geography .....	3	0
Phil. 240. Introduction to Philosophy .....	3	0
*Psyc. 233-234. Human Growth and Development .....	3	3
Basic Studies Literature .....	0	3
Basic Studies Mathematics .....	0	3
Basic Studies Physical Education .....	0	1
	15-16	16-17

### JUNIOR YEAR

*Educ. 360. Foundations of Curriculum .....	3	0
*SeEd. 375. Methods and Materials for Teaching in the Secondary School—Social Science .....	0	3
†Foreign Language (if needed) or Electives .....	3	3
Geography Elective .....	3	0
*Hth. 200. Elements of Health Education .....	2	0
Hist. 233-234. United States History .....	3	3
Political Science Elective .....	3	3
Soci. 250. Social Problems .....	0	3
	17	15

### SENIOR YEAR

*Educ. 470. History and Philosophy of Educational Thought ..	3	0
*Educ. 480. Directed Teaching .....	0	8
History Elective .....	3	3
Political Science Elective .....	3	0
Electives .....	6	5
	15	16

\*Should include these courses, if it is desired to meet the State Teacher Certification Requirements.

†See Foreign Language requirements for B.A. Degree.

## Four-Year Program (B.S. Degree) for a Major in General Social Science (128 Credits)

### FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Comm. 200. Oral Communication .....	3	0	
Eng. 101-102. Reading and Composition .....	3	3	
Hist. 255-256. History of Civilization .....	3	3	
PoSc. 110. Introduction to Political Science .....	3	0	
Soci. 139. Introduction to Sociology .....	0	3	
Basic Studies Art 200 or Mus. 200 .....	0	3	
Basic Studies Physical Education .....	1	1	
Basic Studies Science .....	4	4	
	<hr/>	<hr/>	<hr/>
	17	17	

### SOPHOMORE YEAR

Econ. 230-235. Principles of Economics .....	3	3	
Geog. 120. Introduction to Geography .....	3	0	
Hist. 233-234. United States History .....	3	3	
*Psc. 233-234. Human Growth and Development .....	3	3	
Basic Studies Literature .....	0	3	
Basic Studies and B.S. requirement Mathematics .....	3	3	
Basic Studies Physical Education .....	0	1	
	<hr/>	<hr/>	<hr/>
	15	16	

### JUNIOR YEAR

*Educ. 360. Foundations of Curriculum .....	3	0	
SeEd. 375. Methods and Materials for Teaching in the Secondary School—Social Science .....	0	3	
Geography Elective .....	3	0	
*Hth. 200. Elements of Health Education .....	2	0	
Political Science Elective .....	3	3	
Soci. 250. Social Problems .....	0	3	
Electives .....	6	7	
	<hr/>	<hr/>	<hr/>
	17	16	

### SENIOR YEAR

*Educ. 470. History and Philosophy of Educational Thought ...	3	0	
*Educ. 480. Directed Teaching .....	0	8	
History Elective .....	3	3	
Political Science Elective .....	3	0	
Electives .....	6	4	
	<hr/>	<hr/>	<hr/>
	15	15	

\*Should include these courses, if it is desired to meet the State Teacher Certification Requirements.

## Interdisciplinary Minor in Latin American Studies

A minor in Latin American Studies is available for students enrolled in a B.A. degree program. Language requirements for the B.A. degree must be met in Spanish. The minor requires eighteen (18) hours, in addition to those in the language. Six (6) hours must be in History 367-368. The additional twelve (12) hours must include courses in at least two disciplines other than the student's major, selected from the offerings listed in the program.

The Latin American Studies minor is administered by the History Department. Further information may be secured from Dr. Frank A. Gerome, Associate Professor of History, 211 Jackson Hall.

### Program for Minor in Latin American Studies

	<i>Credit Hours</i>
Geog. 337. Geography of Latin America .....	3
Geog. 590. The Tropical World .....	3
Hist. 367. History of Latin America .....	3
Hist. 368. Contemporary Latin America .....	3
Twelve (12) Hours (At Least Six (6) Hours Outside of Major)	
Hist. 545. Latin America and the United States .....	3
Hist. 546. Mexico, Central America, and the Caribbean .....	3
Hist. 547. South America .....	3
PoSc. 350. Governments of Latin America .....	3
Span. 101-102. Elementary Spanish (if needed) .....	8
Span. 231-232. Intermediate Spanish .....	6
Span. 300. Spanish Conversation and Composition .....	3
Span. 315. Spanish Phonetics .....	3
Span. 327-328. Survey of Spanish-American Literature .....	6
Span. 415. The Spanish-American Novel .....	3
Special Studies 490. (Geography, History, Political Science or Spanish) ..	3

## Interdisciplinary Programs in Russian and Sino-Soviet Studies

The broad objective of these programs is to develop an understanding of societies other than those in the mainstream of Western Civilization with respect to their internal development, their relation to each other, and their relation to the rest of the world, particularly the United States. Although administered by the Department of Political Science and Geography, this major is interdisciplinary and depends upon the resources available in several departments. Two separate programs have been developed: (1) A major in Russian Studies leading to a B.A. degree which will include at least two years of the Russian language and, (2) a major in Sino-Soviet Studies leading to

either the B.A. degree, including the language requirement, or the B.S. degree for which there is no language requirement.

### Majors

The minimum requirement for a major in Russian Studies is thirty (30) hours; for a major in Sino-Soviet Studies, forty-two (42) hours. Required courses for both programs include the following: PoSc. 240 and 320, Econ. 240, Geog. 348, Hist. 385-386. In addition, students in the Russian Studies program will be required to take Rus. 365-366 plus one three-hour elective listed below; students in the Sino-Soviet program will be required to take Rus. 365 or 366, Hist. 373 and 450, PoSc. 332, 334 and 430, plus one three-hour elective listed below. Electives for Russian Studies include Rus. 300 and 308, PoSc. 430, and Special Studies 490 in Economics, Geography, History, Political Science, Russian, or Sociology; electives for Sino-Soviet Studies include Art 301, Rus. 365 or 366, Geog. 349, and Special Studies 490 in Economics, Geography, History, Political Science, Russian, or Sociology. Description of these courses may be found under the individual departmental listings.

### Minors

A minor in one of these two programs may be taken by students in other departments to provide a specialized knowledge which can supplement the more general knowledge provided by his major discipline. A minor in Russian Studies includes eighteen (18) hours and a minor in Sino-Soviet Studies includes twenty-four (24) hours. With the approval of the Advisor to the program, six (6) to eight (8) hours of Russian language may be included in the minor.

Students seeking teacher certification in secondary education should take the following courses: Hth. 200 (Elements of Health Education), Hist. 233 or 234 (United States History), Psyc. 233-234 (Human Growth and Development), Educ. 360 (Foundations of Curriculum), SeEd. 370 (Methods and Materials in Teaching in the Secondary School), Educ. 470 (History and Philosophy of Educational Thought), and Educ. 480 (Directed Teaching). For information regarding certification requirements, the student should consult his advisor.

Further information concerning these programs may be obtained by consulting Dr. Chong-Kun Yoon, Department of History.

**Four-Year Program (B.A. Degree) for a Major in Russian Studies (128 Credits)**

FRESHMAN YEAR

	<i>Credits per Semester:</i>	
	<i>1st</i>	<i>2nd</i>
Comm. 200. Oral Communication .....	3	0
Eng. 101-102. Reading and Composition .....	3	3
Phil. 240. Introduction to Philosophy .....	0	3
Rus. 101-102. Elementary Russian .....	4	4
Basic Studies Art 200 or Mus. 200 .....	0	3
Basic Studies Mathematics .....	3	0
Basic Studies Social Science .....	3	3
	—	—
	16	16

SOPHOMORE YEAR

Hist. 255-256. History of Civilization .....	3	3
PoSc. 240. Soviet Political System .....	3	0
Rus. 231-232. Intermediate Russian .....	3	3
Basic Studies Natural Science .....	4	4
Basic Studies Physical Education .....	1	1
Electives .....	3	3
	—	—
	17	14

JUNIOR YEAR

Econ. 240. Soviet Economy .....	0	3
Geog. 348. Geography of the U.S.S.R. ....	3	0
Hist. 385-386. Russian History .....	3	3
Rus. 365-366. Russian Literature in Translation .....	3	3
Basic Studies Physical Education .....	1	0
Electives .....	6	7
	—	—
	16	16

SENIOR YEAR

PoSc. 320. Marxist-Leninist Theory .....	3	0
Elective in Russian Studies .....	0	3
Electives .....	12	12
	—	—
	15	15

**Four-Year Program (B.S. Degree) for a Major in Sino-Soviet Studies (128 Credits)**

FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Comm. 200. Oral Communication .....	3	0	
Eng. 101-102. Reading and Composition .....	3	3	
Hist. 255-256. History of Civilization .....	3	3	
Basic Studies Natural Science .....	0	4	
Basic Studies Physical Education .....	1	0	
Basic Studies Social Science .....	3	3	
Basic Studies and B.S. requirement Mathematics .....	3	3	
	—	—	
	16	16	

SOPHOMORE YEAR

Course in Social Science or Natural Science .....	3-4	0	
Hist. 385-386. Russian History .....	3	3	
PoSc. 240. Soviet Political Systems .....	0	3	
Rus. 365-366. Russian Literature in Translation .....	3	0	
Basic Studies Art 200 or Mus. 200 .....	0	3	
Basic Studies Natural Science .....	4	0	
Basic Studies Physical Education .....	1	1	
Electives .....	2	6	
	—	—	
	16-17	16	

JUNIOR YEAR

Econ. 240. Soviet Economy .....	3	0	
Hist. 373. East Asia .....	3	0	
Hist. 450. Modern China .....	0	3	
PoSc. 320. Marxist-Leninist Theory .....	0	3	
Elective in Sino-Soviet Studies .....	3	0	
Electives .....	7	10	
	—	—	
	16	16	

SENIOR YEAR

Geog. 348. Geography of the U.S.S.R. ....	3	0	
PoSc. 322. Chinese Government and Politics .....	3	0	
PoSc. 334. Chinese Communist Foreign Policy .....	0	3	
PoSc. 430. The Communist Nations in World Affairs .....	0	3	
Electives .....	10	10	
	—	—	
	16	16	

## Four-Year Program (B.A. Degree) for a Major in Sino-Soviet Studies (128 Credits)

### FRESHMAN YEAR

	<i>Credits per Semester:</i>	
	<i>1st</i>	<i>2nd</i>
Comm. 200. Oral Communication .....	3	0
Eng. 101-102. Reading and Composition .....	3	3
Hist. 255-256. History of Civilization .....	3	3
Rus. 101-102. Elementary Russian .....	4	4
Basic Studies Mathematics .....	0	3
Basic Studies Social Science .....	3	3
	—	—
	16	16

### SOPHOMORE YEAR

Course in Natural Science or Social Science .....	0	3-4
Hist. 385-386. Russian History .....	3	3
PoSc. 240. Soviet Political Systems .....	3	0
Rus. 231-232. Intermediate Russian .....	3	3
Basic Studies Art 200 or Mus. 200 .....	3	0
Basic Studies Natural Science .....	4	4
Basic Studies Physical Education .....	1	1
	—	—
	17	14-15

### JUNIOR YEAR

Econ. 240. Soviet Economy .....	0	3
Geog. 348. Geography of the U.S.S.R. ....	3	0
Hist. 373. East Asia .....	3	0
Hist. 450. Modern China .....	0	3
Phil. 240. Introduction to Philosophy .....	3	0
Rus. 365 or 366. Russian Literature in Translation .....	3	0
Basic Studies in Physical Education .....	0	1
Electives in Sino-Soviet Studies .....	0	3
Electives .....	4	6
	—	—
	16	16

### SENIOR YEAR

PoSc. 320. Marxist-Leninist Theory .....	3	0
PoSc. 332. Chinese Government and Politics .....	3	0
PoSc. 334. Chinese Communist Foreign Policy .....	0	3
PoSc. 430. The Communist Nations in World Affairs .....	0	3
Electives .....	9	9
	—	—
	15	15



## ALLIED HEALTH PROGRAMS AND HEALTH RELATED PRE-PROFESSIONAL PROGRAMS

Madison College offers five Allied Health Programs and five health related pre-professional programs. Although these programs are health related, they are administered under different schools. The descriptions of the programs will be found in the departmental sections as indicated below.

Medical Technology .....	Biology and Chemistry Departments
Dietetics .....	Home Economics Department
Speech Pathology .....	Special Education Department
Medical Physics .....	Physics Department
Health (Pre-Public) .....	Physical and Health Education Department
Pre-Medicine .....	Biology Department
Pre-Dentistry .....	Biology Department
Pre-Nursing .....	Biology Department
Pre-Physical Therapy .....	Biology Department

### Program in Medical Technology

This is a program leading to the Bachelor of Science degree in medical technology. It is offered cooperatively with schools of medical technology on the approved list of the Council of Medical Education and Hospitals of the American Medical Association and the Board of Schools of Medical Technology of the American Society of Clinical Pathologists.

The degree is conferred by Madison College upon the successful completion of the following three-year program at the College and one academic year at an approved school of medical technology. Upon completion of the full twelve-months course in medical technology, the student is given a diploma by the school of medical technology and becomes eligible for the national examination for certification by the Registry of Medical Technologists of the American Society of Clinical Pathologists.

### FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Bio. 120. General Zoology .....		4	0
Chem. 101-102. General Chemistry .....		4	4
Comm. 200. Oral Communication .....		0	3
Eng. 101-102. Reading and Composition .....		3	3
Math. 105. Finite Mathematics .....		3	0
Math. 220. Elementary Statistics .....		0	3
Basic Studies Physical Education .....		1	1
Elective .....		0	3
		—	—
		15	17

### SOPHOMORE YEAR

Bio. 270. Human Physiology .....	0	3
Bio. 290. Human Anatomy .....	4	0
Chem. 237. Organic Chemistry .....	4	0
Chem. 238. Biochemistry .....	0	4
Hist. 255-256. History of Civilization .....	3	3
Basic Studies Literature .....	0	3
Basic Studies Physical Education .....	1	0
Basic Studies Social Science .....	3	3
Elective <sup>o</sup> .....	2	0
	—	—
	17	16

<sup>o</sup>Students electing to attend the "2-2" program at MCV should take Chem. 356 their sophomore year.

### JUNIOR YEAR

Bio. 280. General Microbiology .....	4	0
Bio. 360. Biological Instrumentation .....	0	3
Chem. 356. Analytical Chemistry .....	4	0
Phys. 110. Principles of Physics .....	0	4
Basic Studies Art 200 or Mus. 200 .....	3	0
Electives .....	5	8
	—	—
	16	15

### SENIOR YEAR

The fourth year of this program consists of twelve months at a school of medical technology approved by the American Medical Association and American Society of Clinical Pathologists.

To enter a school of medical technology, a separate application must be made by the student. A list of approved schools of medical technology is on file in the office of the student's adviser.

Students interested in a major in medical technology should consult Mr. Robert Graves, 222 Burruss Hall.

## Pre-Medical and Pre-Dental Programs

Madison College is well equipped to prepare students for admission to medical and dental school. The requirements of most schools are very similar, however, the students should become familiar with the requirements of the particular school in which they are interested.

Medical and dental schools require at least three years of college preparation but prefer that their candidates complete the full four years leading to a bachelor's degree. They specify a minimum amount of biology, chemistry, mathematics and physics but they want the pre-medical student to obtain a broad cultural background in such fields as literature, social science, psychology, philosophy and the fine arts. These minimum course requirements can be met by the completion of the following:

- Bio. 120-130. General Biology
- Chem. 101-102. General Chemistry
- 234. Organic Chemistry Laboratory
- 235-236. Organic Chemistry Lecture
- Math. 105-106. Finite Mathematics
- Phys. 130, 135. General Physics

Although medical and dental schools do not exhibit a preference as to specific undergraduate majors, they do recommend that a student should pursue a specific program in some depth.

Pre-medical and pre-dental students should seek regular academic advice at the beginning of their undergraduate careers. Students who are interested in these areas should consult Dr. Gilbert S. Trelawny, 102 Burruss Hall.

## Two-Year Pre-Nursing Program

The first two years of a program leading to the degree of Bachelor of Science in Nursing may be completed at Madison College with the remainder of the period of study at an accredited baccalaureate school of nursing. A separate application for admission must be made during the fall semester of the sophomore year. Application forms may be obtained from the Office of Admissions at the school of the student's choice. Each student should confer closely with an academic advisor and plan a program of study to meet specific liberal arts prerequisites.

A basic program of study which meets The University of Virginia Nursing School requirements is given below. Students with special problems or with questions concerning the first two years of the nursing program should consult Mrs. Margaret A. Gordon, 101 Burruss Hall.

#### FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Bio. 100. The Spectrum of Life, or			
Bio. 120. General Zoology .....	4	0	
Bio. 290. Human Anatomy .....	0	4	
Chem. 121-122. General Chemistry .....	4	4	
Eng. 101-102. Reading and Composition .....	3	3	
Hist. 255-256. History of Civilization .....	3	3	
Basic Studies Physical Education (recommended) .....	1	1	
	—	—	
	15	15	

#### SOPHOMORE YEAR

Bio. 270. Human Physiology .....	3	0
Bio. 280. General Microbiology .....	0	4
Psyc. 231-232. General Psychology .....	3	3
Soci. 139. Introduction to Sociology .....	3	0
Basic Studies Humanities .....	3	3
Basic Studies Social Science .....	0	3
Electives (Mathematics, Physics or Nutrition recommended) ...	3-4	3
	—	—
	15-16	16

#### Two-Year Pre-Physical Therapy Program

The first two years of the program leading to the degree of Bachelor of Science in Physical Therapy may be completed at Madison College and the remaining two years at some school of physical therapy. Students should ascertain the admission requirements from the physical therapy school of their choice and choose the specific courses to meet these requirements.

The following are recommended courses that will meet the requirements of most physical therapy schools which accept students after two years of study.

Students interested in Physical Therapy may consult Mr. Robert Graves, 222 Burruss Hall.

FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Eng. 101-102. Reading and Composition .....	3	3	3
Chem. 101-102. General Chemistry .....	4	4	4
Math. 105-106. Finite Mathematics .....	3	3	3
Psyc. 231-232. General Psychology .....	3	3	3
Basic Studies Social Science .....	3	3	3
Basic Studies Physical Education .....	0	—	1
	—	16	17

SOPHOMORE YEAR

Bio. 120. General Zoology .....	4	0
Bio. 290. Human Anatomy .....	4	4
Bio. 270. Human Physiology .....	0	3
Phys. 130-135. General Physics .....	4	4
Basic Studies Social Science .....	0	3
Basic Studies Physical Education .....	0	1
Electives .....	4	5
	—	—
	16	16

1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025



# DEPARTMENT of Art

DR. J. DAVID DILLER, *Head of the Department*

*Professors* DILLER and THEODORE

*Associate Professors* BEER, M. CALDWELL, and COULTER

*Assistant Professors* CRABLE, HAWKINS, SZMAGAJ, and WYANCKO

*Instructors* CHATELAIN, COLLINS, SNOW, TYLER, and ZAPTON

*Special Instructor* PAUL

The Art Department aims to provide a balanced background in art for those students seeking careers as practicing artists, art historians, or as teachers of art on the secondary or elementary level. It provides the foundation for advanced art studies, and in certain major studio fields also provides advanced studies intended to develop highly competent artists and teachers. For the general student, as well as the art student, this department seeks to develop perceptual insights, including a sensitivity to the values expressed through the visual arts by a wide variety of cultures.

In addition to the Basic Studies requirements (See pgs. 69-70), the minimum requirement for a major in Art is forty-two (42) semester hours including Art 200, subject to the approval of the Head of the Department. A minor includes a minimum of eighteen (18) semester hours, subject to the approval of the Head of the Department. Prerequisites must be observed unless the student can show evidence of equivalent disciplines.

The major in Art History requires a minimum of thirty-three (33) semester hours, including:

- a. at least 24 hours of art history. Art 200, Art 205, Art 206, and Art 483 are required.
- b. not more than 6 nor fewer than 3 hours of studio art selected from Art 121, 122, 125, 140, 150, 160, 235, 244, 254, 255.
- c. not more than 6 nor fewer than 3 hours in related courses outside the Art Department selected from English 240, Latin 458, Humanities 200, History courses above the 200 level.

Majors in Art History are encouraged to take as many courses as possible in one or two foreign languages and in the humanities generally.

Art majors may elect either the B.A. or B.S. degree program, and should carefully study the requirements for the respective degrees. Art History majors study within the B.A. program only. Students interested in a major in Art or Art History should consult the Head of the Art Department, 101 Duke Fine Arts Center.

The Art Department reserves the right to retain permanently one work from each student in each class. The disposition of these works will be decided by the art staff.

Art students seeking teacher certification should take the following courses: Hth. 200 (Elements of Health Education), Hist. 233 or 234 (United States History), Psyc. 233-234 (Human Growth and Development), Educ. 360 (Foundations of Curriculum), Art 316 (Art Teaching Methods, Secondary School), SeEd. 370 (Methods and Materials in Teaching in the Secondary School), Educ. 470 (History and Philosophy of Educational Thought), and Educ. 480 (Directed Teaching). Certification for grades K-12 requires, in addition, Art 310 and Directed Teaching at the elementary level.

Students who wish to be certified to teach art must also satisfy the endorsement requirements prescribed by the Virginia State Board of Education. The minimum semester hours required in each area may be chosen from the courses indicated in parentheses.

- I. Design, Drawing, Painting, Printmaking. . . . . 12 sem. hrs.  
(140, 150, 240, 244, 254, 345,  
354, 360, 366, 454, 460)
- II. Sculpture . . . . . 6 sem. hrs.  
(235, 434)  
Ceramics and Crafts . . . . . 6 sem. hrs.  
(121, 122, 125, 373, 474)
- III. History, Appreciation of Art . . . . . 6 sem. hrs.  
(200, 205, 206, 301, 306, 405, 406, 408, 483)

The curricular sequence by which individual students fulfill degree requirements will vary depending upon the choice of major, academic degree, and whether teaching certification is sought. It is important, therefore, that students work closely with their advisers in fulfilling these requirements, and that prerequisites for individual courses also be fulfilled.



## Description of Courses

### Art History and Appreciation Courses

ART 200. *Art in General Culture*, 3 credits.

An exploratory course which aims to develop a non-technical, general cultural understanding of the space arts, such as architecture, painting, sculpture, and industrial design. Emphasis is on the contemporary.

ART 205. *Art History: Prehistoric Through Medieval Art*, 3 credits

A study of the architecture, sculpture, painting, and other arts from prehistoric times to the beginning of the Renaissance.

ART 206. *Art History: Renaissance Through Modern Art*, 3 credits.

A survey of the visual arts of the Western World from the Renaissance to the present day.

ART 301. *Art History: Far East*, 3 credits.

A survey of East Asian Art from prehistoric times to nineteenth century colonialism. Emphasis is on the areas of major production: India, China, and Japan, with some attention to such centers as Cambodia, Siam, and Korea.

ART 306. *Art History: Renaissance*, 3 credits.

A study of the arts of the Renaissance in Italy and the Northern European countries from 1425 to about 1600. *Prerequisite: Art 206.*

ART 405. *Art History: The Nineteenth Century*, 3 credits.

A study of art in Europe during the 19th century. *Prerequisite: Art 206.*

ART 406. *Art History: The Twentieth Century*, 3 credits.

A study of art in Europe and America during the 20th century. *Prerequisite: Art 206.*

ART 408. *Art History: Arts of the United States*, 3 credits.

A study of the arts of the United States from the 17th through the 19th centuries.

ART 483. *Aesthetics*, 3 credits.

Readings and discussions in the persistent philosophical problems of the arts, centering on consideration of the work of art, the artist, and the audience. *Prerequisite: Art 200 or permission of Department Head.*

ART 503. *Studies in Greek Art*, 3 credits.

A selection of specialized topics in the arts of ancient Greece. Sculpture, architecture, pottery and other arts of a given period will be studied in depth. *Prerequisite: Art 205.*

ART 506. *Modern Architecture*, 3 credits.

A study of the architecture of 19th and 20th century Europe and America.

## Art Education Courses

ART 310. *Art Activities in the Elementary School* (1, 4), 3 credits.

A study of the aims and philosophy of art education in the elementary school with emphasis on child growth and development through art. Experience with art techniques and materials suitable to children from nursery school through grade 6 with emphasis on appropriate motivational and teaching methods. *Prerequisites: Psyc. 233-234 or permission of Department Head.*

ART 314. *Arts and Crafts for the Exceptional Child* (1, 4), 3 credits.

A study of art activities and materials which stimulate thought processes and development from one stage of growth to another. Analysis of successful teaching methods. Investigation of the effect of art instruction upon the student's behavior in his class, in other subjects and in total school behavior. *Prerequisites: Psyc. 233-234.*

ART 316. *Art Teaching Methods, Secondary School* (2, 2), 4 credits.

Problems in the teaching and administration of art programs on the secondary level. *Prerequisites: Twelve (12) semester hours of Art; Psyc. 233-234.*

## Studio Art Courses

ART 121. *Weaving and Textile Design* (0, 6), 3 credits.

Introduction to and practice in basic weaves and dressing looms for hand-weaving. Exploration of such fabric treatments as batik, tie-dyeing, stitchery, printing by blocks or screen, and macrame.

ART 122. *Metal and Jewelry* (0, 6), 3 credits.

An exploration of techniques necessary to execute well-designed objects in metals including forming, repousse, stone setting, metal finishing, enameling and centrifugal casting.

ART 125. *Ceramic Crafts* (0, 6), 3 credits.

Introduction to ceramic hand-building processes, use of the potter's wheel and glazing; exploration of techniques in glass and mosaics.

ART 140. *Design* (1, 4), 3 credits.

Basic problems in two-and three-dimensional design in a variety of materials; study of the organic quality of materials in relation to design potentials; analysis of the visual elements of art.

ART 150. *Drawing* (1, 4), 3 credits.

An introductory course composed of problems in landscape, perspective, figure and still-life in several media.

ART 160. *Introductory Painting* (0, 6), 3 credits.

Oil painting for students who have had some experience in drawing and design. Registration by permission of the instructor. *Does not meet Art major requirement.*

ART 235. *Sculpture* (0, 6), 3 credits.

Problems in three-dimensional form using traditional and modern techniques. Processes of modeling in clay, mold making, casting, carving in wood and stone, and welded metal sculpture are explored. *Prerequisite: Art 140.*

ART 240. *Interior Design* (2, 2), 3 credits.

A creative approach to furnishing living quarters with emphasis on function, character and nature of materials. Survey of furniture periods with architectural setting; emphasis on the contemporary.

ART 244. *Advanced Design* (1, 4), 3 credits.

A continuation of Art 140 emphasizing design as it applies to painting and allied two-dimensional art forms. Significant art works will be analyzed according to design principles. *Prerequisites: Art 140, Art 150.*

ART 254. *Advanced Drawing* (1, 4), 3 credits.

A continuation of Art 150 with emphasis on composition, life drawing, and the expressive possibilities of a variety of media including ink, pencil, conte, charcoal, and experimental materials. *Prerequisite: Art 150.*

ART 255. *Photography* (0, 6), 3 credits.

A creative approach to photography with emphasis on understanding materials and techniques.

(Student must provide a fully manual 35mm camera and a light meter which may be built into the camera or separate. Additional costs for materials in this class will be approximately \$10.00.)

ART 321 A, B, C. *Weaving and Textiles* (0, 6), 3 credits, repeatable to total of 9 credits.

Continued use of frame and floor looms. Emphasis will be on rugs, drafts, and samples. Major projects will be selected by the student with the approval of the instructor. *Prerequisite: Art 121.*

ART 322 A, B, C. *Intermediate Metal and Jewelry* (0, 6), 3 credits repeatable to total of 9 credits.

Continuation of development in metalworking and its skills with emphasis on design and craftsmanship. *Prerequisite: Art 122 or equivalent.*

ART 345. *Advertising Art and Illustration* (1, 4), 3 credits.

Practice in lettering forms, advertising layout, and illustration. Design problems related to trademarks, covers, and package design. Experience with tools such as the airbrush and ruling pen. Types of visual communication and commercial printing techniques are studied. *Prerequisites: Art 140, Art 150, Art 200.*

ART 354. *Printmaking* (0, 6), 3 credits.

Studio practice in the hand processes of color woodcut, metal engraving, etching, aquatint, and serigraphy (silkscreen). Lithographic techniques and the work of famous printmakers are studied. *Prerequisites: Art 140, Art 150, Art 244.*

ART 355 A, B, C. *Intermediate Photography* (0, 6), 3 credits repeatable to total of 9 credits.

A course for the advanced student photographer who wishes to increase his visual awareness and his visual and technical proficiency through an intensive exploration of personal imagery. *Prerequisite: Art 255.*

ART 360. *Painting* (0, 6), 3 credits.

Oil painting and other media with creative and aesthetic considerations of picture structure. *Prerequisites: Art 150, Art 244.*

ART 366. *Watercolor* (1, 4), 3 credits.

Study of and practice in transparent and opaque watercolor techniques. *Prerequisites: Art 150, Art 244.*

ART 373. *Ceramics* (0, 6), 3 credits.

Studio practice in forming, firing, and glazing ceramic ware. Wheel-thrown pottery will be emphasized. Fundamentals of glaze composition will be given in lectures. *Prerequisite: Art 140.*

ART 434. *Advanced Sculpture* (0, 6), 3 credits.

Problems in free standing and relief sculpture with an investigation of metal casting techniques in bronze and other metals. Use of direct metal processes. Constructive approaches to form are also explored. *Prerequisites: Art 235, Art 244.*

ART 454. *Advanced Printmaking* (0, 6), 3 credits.

Advanced problems in any printmaking process selected by the student with the advice of the instructor. *Prerequisite: Art 354.*

ART 460. *Painting* (0, 6), 3 credits.

Advanced problems in media selected by the student with the advice of the instructor. *Prerequisite: Art 360.*

ART 474 A, B, C. *Advanced Ceramics* (0, 6), 3 credits repeatable to total of 9 credits.

Problems in ceramic design with increased attention to the chemical composition of glazes and clays. *Prerequisite: Art 373.*

ART 524. *Advanced Weaving and Textile Design* (0, 6-8), 3-4 credits.

Studio projects in handcrafted textile arts. Ordinarily the emphasis will be on weaving or, alternatively, methods of textile decoration. *Prerequisite: Art 121.*

ART 526. *Advanced Jewelry and Metalwork* (0, 6-8), 3-4 credits.

Studio projects in the metal arts. The student may elect to widen his experience in these craft areas, or to specialize in one or two of them. Emphasis is on high quality of craftsmanship and design. *Prerequisite: Art 122.*

ART 530. *Sculpture* (0, 6-12), 3-6 credits.

Advanced sculptural projects with choices from a wide range of materials and techniques including welding, casting, wood and metal construction, wood and stone carving, and others. *Prerequisite: Art 434.*

ART 550. *Printmaking* (0, 6-8), 3-4 credits.

Problems in printmaking chosen from intaglio processes such as etching and engraving, and from woodcut, serigraphy, and lithography. *Prerequisite: Art 354.*

ART 560. *Graphics and Painting* (6-12), 3-6 credits.

Studio work aimed toward the development of the student's individual expressive means. The students may choose from a wide variety of media. *Prerequisites: Art 244, Art 360.*

ART 570. *Advanced Ceramic Design* (0, 6-12), 3-6 credits.

Individual development in the techniques and processes of ceramic design, with emphasis upon quality as evidenced in form, color and decoration. *Prerequisite: Art 373.*

### Special Courses

ART 353. *Magazine Editing and Design*, 3 credits.

(See English section for Eng. 353 and for course description.)

ART 490. *Special Studies in Art*, 1-3 credits each semester.

Independent research or studio practice under faculty supervision. Projected studies must be arranged with the instructors who will direct them. (Offered only with consent of the Department Head.)

ART 499. *Honors*, 6 credits. Year Course.

ART 501. *Workshops in Art* (Summer only. Each area three hours daily for two weeks), 1-2 credits.

Concentrated workshops, accompanied by lecture and discussion periods, selected from such areas as painting, sculpture, printmaking, ceramics, art education, photography, and crafts. This course is particularly designed to update and strengthen art skills of practicing teachers.

# DEPARTMENT

## of Biology

DR. GILBERT S. TRELAWNY, *Head of the Department*

*Professors* DAVIS, GRIMM, JENKINS, and TRELAWNY

*Associate Professors* E. FISHER, W. JONES, NIELSEN, and WINSTEAD

*Assistant Professors* BODKIN, COCKING, GARRISON, M. GORDON, GRAVES,  
HEADING, SELLERS, and SILVER

The Department of Biology offers programs designed primarily to provide fundamental training in the biological sciences as well as pre-professional preparation for the medical and para-medical sciences and teaching.

The Department offers a four-year, B.S. degree program for a Major in Biology and for a Major in Biology qualifying for the Secondary Collegiate Professional Certificate. B. A. degree requirements can be met by the addition of 6-14 semester hours in a foreign language and 3 semester hours in philosophy.

In addition to Basic Studies (See pgs. 69-70), the minimum requirement for an undergraduate major in biology is thirty-two (32) semester hours in biology courses selected in consultation with the student's advisor. In order that all majors may become conversant with the modern trends and concepts of biology, sufficient electives are available to afford balanced programs of studies in both plant and animal life to meet the individual needs of students.

Credit in the following courses is required for the major in biology: Biology 120 (General Zoology), Biology 130 (General Botany), and Biology 410 (Integrated Biological Principles), Chemistry 101-102 (General Chemistry), Chemistry 234; 235-236 (Organic Chemistry), Mathematics 105 (Finite Mathematics), and either Mathematics 106 (Finite Mathematics) or Mathematics 220 (Elementary Statistics). Students who contemplate graduate study in biology are strongly urged to complete the second year of German, French or Russian. Freshman level courses should be taken as soon as possible in the students' program since they serve as prerequisites for upper level coursework.

The minimum requirement for a minor in biology is twenty-six (26) semester hours including those required biology courses listed for the major.

Students seeking teacher certification in secondary education should take the following courses: Health 200 (Elements of Health Education), History 233-234 (United States History), Psychology 233-234 (Human Growth and Development), Education 360 (Foundations of Curriculum), Secondary Education 376 (Methods and Materials for Teaching in the Secondary School—Science), Education 470 (History and Philosophy of Educational Thought), Education 480 (Directed Teaching).

Students interested in a major in biology should consult the Head of the Department, 102 Burruss Hall in order to be assigned to an advisor.

### Description of Courses

Bio. 100. *The Spectrum of Life* (3, 2), 4 credits.

The course is designed to create an increased awareness and knowledge of the scientific basis for present concern over biological problems confronting mankind. The basic areas of the characteristics, control, and continuity of life will form the conceptual core of the course. This course is intended for students who do not plan to major in biology.

Bio. 120. *General Zoology* (2, 4), 4 credits.

A general zoology course with emphasis on the study of evolutionary development, morphology, physiology, and ecology of representatives of the major phyla of the animal kingdom. (Required of all biology majors and minors.)

Bio. 130. *General Botany* (2, 4), 4 credits.

A course involving a study of the development, structure, and function of plants and their relationships to other organisms. (Required of all biology majors and minors.)

Bio. 150. *Resources Use and Preservation*, 3 credits.

A course designed to inventory and evaluate the resources of Virginia and the United States and the proper use thereof. The subject matter will include air, water, minerals, soil, forest, recreation and others as these affect human welfare and prosperity. (Open as an elective to all Madison students.)

Bio. 250. *General Ecology* (2, 1), 3 credits.

The nature of ecosystems will be examined through the discussion of energy flow, population interactions, functional changes during successional development, and the structure of major terrestrial and aquatic communities.

Bio. 270. *Human Physiology* (2, 2), 3 credits.

Emphasis is placed on the function of the muscular, circulatory, digestive, excretory, endocrine and nervous systems of the human body. *Prerequisite: A course in freshman biology or chemistry.*

Bio. 280. *General Microbiology* (2, 4), 4 credits.

Designed to give the student a general understanding and appreciation of bacteria and related fungi. (This is a basic course for pre-nursing, home economics, and pre-medical technology students and may be used as an elective by students in other programs.) *Prerequisite: A course in freshman biology or chemistry.*

Bio. 285. *Taxonomy of Vascular Plants* (2, 3), 3 credits.

A study of identification, nomenclature and classification of vascular plants with emphasis on field investigation. Techniques for identification, collection and preservation will be stressed. Major ecological associations in the mid-Appalachian region will be studied. *Prerequisite: Bio. 130 or consent of instructor.*

Bio. 290. *Human Anatomy* (2, 4), 4 credits.

An introduction to the study of human anatomy with emphasis on the macroscopic structures of the body. The first part of the course deals with the basic plan of the body systems; the second part of the course consists of dissection of the human cadaver with emphasis on the regional approach. Charts, models, three-dimensional slides of dissected cadavers, and the human cadaver are used in the laboratory.

Bio. 300. *Invertebrate Zoology* (2, 2), 3 credits.

A systematic study of various invertebrate phyla with emphasis on classification, morphology, life histories and phylogeny. *Prerequisite: Bio. 120.*

Bio. 310. *General Entomology* (2, 4), 4 credits.

A laboratory and field study of the insects. Morphology, physiology and behavioral aspects will be emphasized. Collection, identification, and preservation of local insects by standard procedure will be a part of the course.

Bio. 315. *Introduction to Plant Pathology*, 2 credits.

A study of plant diseases, their prevention, identification, control and treatment. Common diseases of both wild and cultivated plants are studied. This course is designed to provide practical information for those who attempt to grow plants and are confronted with plant disease problems. *Prerequisite: Bio. 130 or consent of instructor.*

Bio. 316. *Vertebrate Embryology* (2, 4), 4 credits.

An introduction to the comparative developmental anatomy of the vertebrates, including the human. *Prerequisite: Bio. 120.*

Bio. 320. *Comparative Anatomy of Vertebrates* (2, 4), 4 credits.

An integrated course designed to present gross anatomy and embryonic development of vertebrate organ systems in a comparative method.



Bio. 325. *Ornithology* (1, 3), 2 credits.

An introduction to bird life; structure, function, behavior, evolution, and identification. Early morning field trips will be required.

Bio. 330. *Genetics* (2, 4), 4 credits.

A study of the major principles of biological inheritance through class discussions and laboratory experiments. *Prerequisites: Bio. 120 and Bio. 130.*

Bio. 340. *Morphology and Anatomy of Vascular Plants* (2, 4), 4 credits.

A detailed study of the comparative morphology and anatomy of tracheophytes. *Prerequisite: Bio. 130.*

Bio. 350. *Ecological Techniques* (1, 6), 3 credits.

Field work and ecological techniques as applied to the study of the biotic and abiotic components of freshwater and terrestrial environments. *Prerequisites: Bio. 120, 130, and 250.*

Bio. 355. *Physiology of Vascular Plants* (3, 3), 4 credits.

Function and structure of higher plants including water relations, mineral nutrition, transport phenomena, metabolism, growth and development and selected topics in physiological ecology. *Prerequisites: Bio. 130, Chem. 235-236. Chem. 236 may be taken concurrently.*

Bio. 356. *Plant Ecology* (2, 3), 3 credits.

Distribution and association of plants in relation to their physical and biological environments. Emphasis will be placed on the structure and function of plant communities of different biomes. *Prerequisite: Bio. 130.*

Bio. 360. *Biological Instrumentation* (1, 4), 3 credits.

A study of the principles and techniques in the use of laboratory equipment and apparatus. Practical laboratory use will be applied in such fields as spectrophotometry, electrophoresis, densitometry, chromatography, and the use of radiation equipment. Some practical work will be included in blood analysis and urinalysis. *Prerequisites: Chem. 101-102.*

Bio. 403. *History of Biology*, 2 credits.

A survey of the impact of biological thought, progress, and philosophy on the historical development of our civilization.

Bio. 404. *Evolution*, 3 credits.

An examination of the place of theoretical thought in biology. The concepts of phylogenetic relationships and the mechanisms of organic change as expressed through the principles of organic evolution will be stressed. *Prerequisite: Bio. 330.*

Bio. 410. *Integrated Biological Principles*, 3 credits.

A senior level course required of all biology majors and minors, which stresses the fundamental interrelatedness of life. Emphasis is placed on the characteristics, control and continuity of living organisms. *Prerequisite: senior standing.*

Bio. 480. *Molecular Biology* (2, 4), 4 credits.

A study of cellular constituents and cellular genetics at the molecular level. *Prerequisites: Chem. 235-236. Chem. 236 may be taken concurrently.*

Bio. 497-498. *Problems in Biology*, 1-3 credits each semester.

An undergraduate research course in one of the fields of biology. (Open, with permission of the department head, to seniors who have adequate preparation.)

Bio. 501. *Workshop in Biology, Flora of Virginia* (summer; 0, 4), 2 credits.

A short course for those interested in the native wildflowers of Virginia. This course is designed for amateur botanists as well as semi-trained individuals in the field who have the desire to learn more about the native flora of the state. Emphasis will be placed on sight identification of the wildflowers in their native habitats. Field trips will be taken to botanically rich and diverse areas such as Fort Valley in the Massanutten Mountains, Reddish Knob, Big Meadows, the higher Allegheny Mountain region of West Virginia and numerous local areas of botanical interest. This course may not be used for credit toward any major or minor in Biology.

Bio. 510. *Animal Ecology* (summer, 2, 3), 3 credits.

A course designed to acquaint students with the fundamental relationships existing between animals and their environment. Emphasis will be placed on the dynamic aspect of ecology and its importance to mankind. The laboratory will consist of group discussion sessions and selected field trips throughout the Shenandoah regions.

Bio. 515. *Parasitology* (2, 4), 4 credits.

A study of the origin and nature of parasitism as illustrated by representative animal parasites. Emphasis is on species of medical and economic importance.

Bio. 517. *Developmental Biology* (2, 4), 4 credits.

Physiological and biochemical aspects of animal development will be emphasized in lecture. Laboratory periods will be used for experimental work, literature reviews, and discussions. *Prerequisites: Bio. 480. Bio. 316 is recommended.*

Bio. 540. *Public Health Microbiology* (2, 4), 4 credits.

A study of infectious diseases, epidemiology and all the interactions of agent and host. The microbiology of water, sewage, air, and foods is covered with respect to the dissemination of disease agents and methods of their control.

Bio. 545. *Cytology* (2, 4), 4 credits.

A study of the organization and components of cells, relating structure to function. Laboratory study will include cytoplasmic organelles as well as nuclear and chromosomal morphology. *Prerequisite: Bio. 330.*

Bio. 550. *Cellular Physiology* (2, 4), 4 credits.

A study of physicochemical relationships as they apply to cell function. *Prerequisites: Chem. 235-236.*

Bio. 551. *Ecosystem and Community Dynamics* (3, 3), 4 credits.

Quantitative studies of plant and animal communities and their functional interactions with the environment. The ecosystem will be examined as a dynamic unit comprising both objects and functions. *Prerequisites: Bio. 250, 350 or equivalent.*

Bio. 552. *Population Ecology* (3, 3), 4 credits.

The structure, distribution and interaction of plant and animal populations will be examined. Population growth patterns, regulatory mechanisms and differentiation in response to the environment will be considered. *Prerequisites: Bio. 250, 330, 350 or equivalent.*

Bio. 555. *Advanced Plant Physiology* (2, 4), 4 credits.

The physiology of higher plant cells and organisms emphasizing biophysical and biochemical aspects of plant functioning including water relations, mineral nutrition, transport phenomena, and metabolism. *Prerequisites: Bio. 130; a course in physiology and Chem. 235-236, or equivalent.*

Bio. 570. *Morphology of Non-Vascular Plants* (2, 4), 4 credits.

Comparative morphology, ecology, and taxonomy of representative algae, fungi, bryophytes, and nonseed-bearing, vascular plants.

Bio. 580. *Vertebrate Histology* (2, 4), 4 credits.

A comparative study of the microscopic anatomy of vertebrates. *Prerequisites: Bio. 120 and either Bio. 316 or Bio. 320.*

# DEPARTMENT of Chemistry

DR. BENJAMIN A. DEGRAFF, *Head of the Department*

*Professors* CASALI, CHAPPELL, and SIMMONS

*Associate Professors* CROWTHER, DEGRAFF and PALOCSAY

*Assistant Professors* ATKINS and LEARY

The Department of Chemistry offers a program designed to provide the student with the theoretical and practical instruction in chemistry and related areas leading to careers in chemistry, medicine, dentistry, the paramedical areas, forensic sciences, chemical engineering and other technology based careers. The Department also recognizes its responsibility in providing courses for the nonchemist who needs to make effective use of chemistry in his chosen career.

## **B.S. and B.A. Degrees, Professional Program**

This program is designed to meet the needs of students who expect their careers to be based directly on chemistry or who expect to enter a professional school such as dentistry or medicine. In addition to the Basic Studies requirements for the degree (See pgs. 69-70), the minimum requirement for a professional major in chemistry is thirty-two (32) semester hours beyond the basic studies requirement. This will include the following:

### Core Courses

- Chem. 101-102 (General Chemistry)
- Chem. 234 (Organic Chemistry Laboratory)
- Chem. 235-236 (Organic Chemistry Lecture)
- Chem. 356 (Analytical Chemistry)
- Chem. 357 (Instrumental Analysis)
- Chem. 450-451 (Literature and Seminar)
- Chem. 485-486 (Physical Chemistry Lecture)
- Chem. 487 (Physical Chemistry Laboratory)

In addition, six hours of chemistry electives should be selected to match the student's needs and interests.

For a major in chemistry, Mathematics 235-236 (Analytic Geometry and Calculus) and Physics 231-232 (General Physics-Calculus) are also required. It should be emphasized that this is the *minimum requirement* for a major in chemistry. In addition to the above listed courses, chemistry majors are strongly encouraged to enroll in Chemistry 423 (Advanced Laboratory Techniques), Chemistry 490 (Inorganic Chemistry), Chemistry 439 (Intermediate Biochemistry), Chemistry 497-498 (Problems in Chemistry), and Chemistry 525 (Intermediate Organic Chemistry). Mathematics 385 (Intermediate Calculus) is also highly recommended for students who major in chemistry.

### **B.S. Program Qualifying for Secondary Collegiate Professional Certificate**

Students seeking teacher certification in secondary education should, in addition to the core chemistry courses listed above, take the following:

Hth. 200	(Elements of Health Education)
Hist. 233 or 234	(United States History)
Psyc. 233-234	(Human Growth and Development)
Educ. 360	(Foundations of Curriculum)
SeEd. 376	(Methods and Materials for Teaching in the Secondary School—Science)
Educ. 470	(History and Philosophy of Educational Thought)
Educ. 480	(Directed Teaching)

Students interested in this program should consult with both departments involved.

### **B.S. and B.A. Programs with Business Option (Chem-Commerce)**

These programs are designed to fulfill the needs of the business oriented chemistry student by allowing a firm grounding in the essentials of chemistry to be combined with training in marketing, management, or other areas of Business Administration. The student in this program will take the core chemistry courses listed above plus one other elective in chemistry. The courses in Business Administration

will be tailored to the needs and interests of the student. A special advisor is available in the Chemistry Department for students interested in the program.

The minimum requirement for a minor in chemistry is eighteen (18) semester hours which will be selected from the chemistry courses that are listed on page 128.

Freshmen who intend to major in chemistry will take a placement test in mathematics to determine the mathematics course in which they *should enroll*. Chemistry majors who plan to pursue graduate work should enroll in an appropriate foreign language course.

Students interested in the program offered by the Department of Chemistry should consult the Head of the Department, 313 Burruss Hall.

### Description of Courses

CHEM. 101-102. *General Chemistry* (3, 3), 4 credits each semester.

Fundamental chemical principles are examined in terms of modern theories, laws, and applications of chemistry. The course is designed to prepare the student with a chemical background to be utilized in other fields of work as well as for further work in Chemistry.

CHEM. 110. *General Chemistry* (3, 2), 4 credits.

Some of the fundamental principles, laws and applications of chemistry are considered. Material is selected from the areas of inorganic chemistry, organic chemistry, and biochemistry. (This is a terminal course in chemistry and is intended for students who *do not plan* to enroll in other chemistry courses.)

CHEM. 121-122. *General Chemistry* (3, 2), 4 credits each semester.

A course in fundamental chemical principles based on modern concepts of matter. This course is designed to acquaint students majoring in pre-nursing with general, organic and biochemistry. (This course is open only to pre-nurses.)

CHEM. 234. *Organic Chemistry Laboratory* (0, 4), 2 credits.

This course will present laboratory techniques and experiments associated with organic chemistry, including an introduction to synthesis, spectroscopic methods, chromatographic techniques, and some qualitative organic analysis. *Prerequisite: Chem. 235.*

CHEM. 235-236. *Organic Chemistry Lecture*, 3 credits each semester.

The chemistry of organic compounds is studied in the light of modern theories of their structure and behavior, with emphasis on spectroscopic and other modern methods of structure determination. *Prerequisites: Chem. 101-102.*

CHEM. 237. *Organic Chemistry* (3, 3), 4 credits.

An introduction to the study of organic compounds with emphasis on the chemistry of functional groups, including methods of preparation and inter-conversions. The laboratory work will include training in the techniques of organic chemistry, preparation of compounds, and some organic qualitative analysis. *Prerequisites: Chem. 101-102.*

CHEM. 238. *Biochemistry* (3, 3), 4 credits.

A brief survey of the principal constituents of living cells—proteins, carbohydrates, lipids, and nucleic acids—with emphasis on their synthesis and transformations *in vivo*. Intermediary metabolism and protein replication will be stressed. The laboratory work will comprise experiments demonstrating some of the pertinent reactions, including those of analytical value. *Co- or prerequisite: Chem. 236 or Chem. 237.*

CHEM. 290. *Inorganic Chemistry* (2, 3), 3 credits.

A survey of the chemistry of the elements and modern theories of bonding. The laboratory will stress synthesis and identification of selected inorganic compounds. *Prerequisite: Chem. 102.*

CHEM. 356. *Analytical Chemistry* (2, 4), 4 credits.

The total analysis concept is introduced and developed. This framework encompasses the areas of experiment design, sample collection and treatment, and statistical evaluation of results, as well as standard analysis techniques.

CHEM. 357. *Instrumental Analysis* (2, 4), 4 credits.

This course emphasizes the application of instrumental techniques to the quantitative determination of chemical composition. Both instrument theory and practical applications are presented. *Prerequisite: Chem. 356.*

CHEM. 423. *Advanced Laboratory Techniques* (1, 4), 3 credits.

Advanced laboratory techniques designed to apply instrumental methods to synthetic and isolation problems. The syntheses will encompass organic, inorganic and biochemical topics. New and sophisticated laboratory methods and techniques will be explored. *Prerequisite: Chem. 357 or permission of instructor.*

CHEM. 439. *Intermediate Biochemistry* (3, 3), 4 credits.

Emphasis is on chemistry of biologically important compounds. Modern methods of isolation and characterization will be stressed. *Prerequisite: Chem. 236.*

CHEM. 450-451. *Literature and Seminar*, 1 credit each semester.

The course consists of instruction in methods of abstracting specific information from the whole body of chemical literature. The literature methods will be practically applied in the presentation of a seminar on a selected topic in chemistry. *Prerequisite: Permission of instructor.*

CHEM. 485-486. *Physical Chemistry*, 3 credits each semester.

The study of the properties, behavior, and structure of matter by application of the principles of thermodynamics, chemical kinetics, and quantum theory. *Prerequisites: Chem. 236 and Math. 235-236.*

CHEM. 487. *Physical Chemistry Laboratory* (1, 3), 2 credits.

A laboratory course which emphasizes the application of various physical measurement techniques as a means of obtaining data to test fundamental chemical theory. *Pre- or co-requisite: Chem. 485.*

CHEM. 490. *Inorganic Chemistry*, 3 credits.

A study of selected topics in the field of advanced inorganic chemistry. Students are expected to complete several laboratory assignments during the semester. *Co-requisite: Chem. 485.*

CHEM. 497-498. *Problems in Chemistry*, 1-3 credits each semester.

An undergraduate research course in one of the fields of chemistry. (Open, with permission of the department, to advanced students in the College who have adequate preparation.)

CHEM. 499. *Honors*, 6 credits. Year course.

CHEM. 501. *Workshop in Chemistry* (2, 2), 3 credits, summer only.

This course will deal in depth with an area of chemistry that is of topical and current interest. Topics will be selected from active research areas on the basis of their potential impact on society. This course may not be used for credit toward a major or minor in Chemistry.

CHEM. 525. *Intermediate Organic Chemistry*, 3 credits.

An advanced study of the theory of organic chemistry as applied to chemical reactions and synthetic methods. Such topics as reaction mechanisms, spectroscopy, and stereochemistry will be included. *Prerequisite: One year of organic chemistry.*



# DEPARTMENT

## of Communication Arts

DR. DONALD L. MCCONKEY, *Head of the Department*

*Professors* FINNEY and MCCONKEY

*Associate Professors* ARTHUR and KIMBALL

*Assistant Professors* BURR, FRANTZ, HASKINS, JORDAN, NECKOWITZ, and PATTERSON

*Instructors* LYNDRUP, MAIMAN, MORELLO, and RESPRESS

*Lecturer* MUELLER

Major areas of concentration are: Speech Communication, Theatre, Radio/Television/Film, and Journalism.

Courses in the Department of Communication Arts are designed for four classes of students: (a) those who plan to pursue careers in one of the fields of communication; (b) those who have career plans which may be aided by study in the areas of communication; (c) those who plan to do graduate work; and (d) those who intend to teach in secondary schools.

The minimum requirement for a major in Communication Arts is thirty (30) semester hours beyond the Basic Studies requirement (pgs. 69-70). A minor in Communication Arts will include eighteen (18) semester hours, subject to the approval of the Head of the Department. Students should refer to the catalog (pgs. 69-70) for a detailed listing of the Basic Studies requirements which must be completed in addition to department requirements.

All majors in the Department of Communication Arts will be required to complete a core curriculum of fifteen (15) semester hours, selected from the following list, subject to the approval of the Head of the Department: Communication 210 (Process of Human Communication), Communication 245 (Oral Interpretation), Communication 250 (Introduction to Theatre), Communication 225 (Argumentation and Debate), Communication 226 (Small Group Communication), Communication 271 (Introduction to Radio and Television), Journalism 313 (Introduction to Mass Communication), and Journalism 314

(Mass Communication and Society). The Department of Communication Arts allows that majors in the department work toward the B.A. or the B.S. degree.

### Department Concentrations

After completing the core curriculum in Communication, majors in the department may pursue either a general concentration which cuts across all areas, or they may elect to concentrate in a specific area of the department. Majors will be advised to select specific courses providing a broad background of understanding and experience in the various communication media: speech, communication theory, theatre, radio, television, film, and journalism. Certain courses offered by the Art, English, Business, Education, and Special Education Departments relating to communication media, may be elected to complete the major, subject to the approval of the Head of the Department of Communication Arts.

#### Speech Communication Concentration

This concentration includes: Public Address, Rhetorical Theory, Organizational Communication, Communication Theory, and Speech Education. Depending upon specific interests, students pursuing a Speech Communication concentration should elect, beyond the core courses, from Communication 301 (Speech and Drama for Teachers), Communication 304 (Directing Co-Curricular Speech Activities in the High School), Communication 305 (General Semantics), Communication 326 (Persuasive Speech), Communication 329 (Business and Professional Speaking), Communication 335 (Free Speech in America), Communication 336 (Contemporary American Political and Social Rhetoric), Communication 421 (Survey of Rhetorical Theory and Criticism). Related courses, selected in consultation with the advisor, in Business, Psychology, Anthropology, Sociology, and other departments in the College are appropriate supplements for this concentration.

#### Theatre Concentration

Students pursuing a theatre concentration should elect Communication 255 (Technical Theatre), Communication 341 (Costume Design), Communication 351 (Acting), and either Communication 443 or

444 (Theatre History I and II). Other recommended courses are Communication 212 (Voice and Diction), Communication 241 (Stage Make Up), Communication 342 (Survey of Costume Fashion and Manners), Communication 352 (Directing for the Theatre), Communication 356 (Scene Design), Communication 358 (Stage Lighting), Communication 441-442 (Development of the Drama), Communication 240 and Communication 340 (Practicum: Theatre), Communication 452 (Advanced Acting), Communication 540 (Seminar in Theatre), Communication 548 (Experimental Theatre), and related courses in the department and in other departments, to reflect specific individual interests or career goals.

### **Radio/Television/Film Concentration**

Students pursuing a Radio/Television/Film concentration normally elect, beyond required department core courses, a minimum of fifteen credit hours from Communication 365 (Radio Production), Communication 366 (Radio and Television Announcing), Communication 372 (Television Production), Communication 374 (Television Directing), Communication 375 (Basic Film Production), Communication 379 (Public Broadcasting), Communication 461 (Broadcast Management), Communication 465 (Advanced Radio Production), Communication 472 (Advanced Television Production), Communication 474 (The Television Producer), Communication 260 and Communication 360 (Practicum-Broadcasting), and related courses in the department and in other departments to reflect specific individual interests or career goals.

### **Journalism Concentration**

Students pursuing a journalism concentration normally elect, beyond the required department core courses, a minimum of fifteen credit hours from Journalism 210 (Photo-Journalism), Journalism 315 (News Writing), Journalism 316 (News Editing), Journalism 415 (Feature and Editorial Writing), Journalism 109, 209, 309 (Applied News Writing), Communication 365 (Radio Production), Communication 366 (Radio and Television Announcing), Communication 372 (Television Production), Communication 375 (Basic Film Production), Communication 260 and Communication 360 (Practicum-Broadcasting), and related courses in the department and in other departments to reflect individual interests or career goals.

## Teacher Certification

Students seeking teacher certification in secondary education should take the following courses: Health 200 (Elements of Health Education), Psychology 233-234 (Human Growth and Development), History 233 or 234 (United States History), Education 360 (Foundations of Curriculum), Secondary Education 370 (Methods and Materials in Teaching in the Secondary School), Education 470 (History and Philosophy of Educational Thought), Education 480 (Directed Teaching), and Communication 301 (Speech and Drama for Teachers).

## Department Co-Curricular Activities

Majors, as well as interested non-majors, are invited and encouraged to enroll and participate in the co-curricular activities of the Department of Communication Arts. Credit is available to both majors and non-majors by enrolling in the various *practica* and applied courses offered in broadcasting, theatre, forensics and journalism. Any student may participate in debate and forensic activities, The Madison College Theatre and Stratford Players, Radio Station WMRA-FM, television production, work in area broadcasting outlets, and work on the college newspaper, *The Breeze*. Further information on any of these activities may be obtained by contacting the various faculty members responsible for these co-curricular activities, through the department office in Zirkle House.

Students interested in the programs offered by the Department of Communication Arts should consult Dr. Donald L. McConkey, Zirkle House.

## Description of Courses

COMM. 200. *Oral Communication* (1, 2), 3 credits.

Study of the basic processes of oral communication. Emphasis upon the elements of oral composition, analysis of subject matter, speech purposes as related to audiences, and modes of delivery. Consideration of the behavioral characteristics of speakers and listeners, and of the various forms of oral communication.

COMM. 210. *The Process of Human Communication*, 3 credits.

Study of human communication as a behavioral process employing both verbal and nonverbal modes of interaction. Emphasis on studies of learning theory, motivation, language, meaning, and social interaction as they apply to human communication. Consideration of the applied use of communication studies in personal, business, social and professional endeavors.

COMM. 212. *Voice and Diction*, 3 credits.

Study of the voice as an instrument of communication. Consideration of normal speech patterns, with emphasis on voice production and the articulation of sounds. Application and practice through selected readings, tape recordings, and class evaluations.

COMM. 220. *Practicum—Forensics*, 1 credit.

Students who participate in co-curricular forensic activities may receive 1 hour credit per semester. May be repeated during freshman and sophomore years. No student may enroll in more than one *Practicum* per semester. Majors may apply a maximum of 4 hours *Practicum* credit toward meeting major requirements. Limit — 4 hours.

COMM. 225. *Argumentation and Debate*, 3 credits.

Study of the techniques and principles of formal argument and advocacy. Emphasis upon developing, presenting, and defending a position on controversial questions. Consideration of various theories of argumentation and forms of debate.

COMM. 226. *Small Group Communication*, 3 credits.

Study of the process of human communication and interpersonal interaction in small groups. Emphasis upon group methods such as roles, norms, leadership, and decision making. Consideration of the behavioral and the rhetorical approaches to the study of group communication.

COMM. 240. *Practicum—Theatre*, 1 credit.

Students who participate in co-curricular theatre activities may receive 1 hour credit per semester. May be repeated during freshman and sophomore years. No student may enroll in more than one *Practicum* per semester. Majors may apply a maximum of 4 hours *Practicum* credit toward meeting major requirements. Limit — 4 hours.

COMM. 241. *Stage Make-Up*, 1 credit.

Study of the theory and practice of theatrical make-up for stage, television and film. Consideration given to design and application of the various types of make-up; straight, character, fantastic, and clown. Emphasis on the use of make-up as an aid to characterization.

COMM. 245. *Oral Interpretation*, 3 credits.

Study of various forms of literature from the intellectual and the emotional viewpoints. Emphasis upon imagery, denotation, connotation, and motivation. Consideration of techniques relating to the vocal expression of meaning and emotion.

COMM. 250. *Introduction to Theatre*, 3 credits.

Study of the drama as an art form. Emphasis upon introducing students to the basic processes relating to the broad spectrum of the theatre. Consideration of dramatic literature in its historical context, and as it relates to elements of staging, design, costume, lighting and make-up.

COMM. 255. *Technical Theatre* (2, 2), 3 credits.

Study of the technical aspects of stage production. Emphasis upon practical experience in the use of stage and shop facilities. Consideration of the physical theatre, physical stage, construction, painting and rigging of scenery, as applied to theatrical and television production.

COMM. 260. *Practicum—Broadcasting*, 1 credit.

Students who participate in co-curricular broadcasting activities may receive 1 hour credit per semester. May be repeated during freshman and sophomore years. No student may enroll in more than one *Practicum* per semester. Majors may apply a maximum of 4 hours *Practicum* credit toward meeting major requirements. Limit — 4 hours.

COMM. 271. *Introduction to Radio and Television* (2, 2), 3 credits.

Study of radio and television designed to introduce the student to the broadcast industry. Emphasis upon history and development regulatory, and social aspects, and programming and production principles. Consideration of both educational and commercial broadcasting.

COMM. 301. *Speech and Drama for Teachers*, 3 credits.

Study of the teaching of Speech and Drama. Emphasis upon the methods and materials pertinent to the field. Consideration of the direction of various types of Speech and Drama activities in the public schools.

COMM. 304. *Directing Co-Curricular Speech Programs*, 3 credits.

Study of establishing and administering co-curricular speech activities in the high school. Emphasis upon the philosophy and methodology of raising budgets, planning events, and teaching students involved in co-curricular activities. Consideration of debate, forensics, theatre, and broadcasting programs.

COMM. 305. *General Semantics*, 3 credits.

Study of words, their meanings, and their effect upon human behavior. Emphasis upon theories of meaning and their application. Consideration of the research and writings of leading semanticists.

COMM. 314. *Phonetics*, 3 credits.

Study of the mechanisms and sounds of American speech. Consideration of regional planes of speech. Emphasis upon developing understanding and skill in the use of the International Phonetic Alphabet.

COMM. 320. *Practicum—Forensics*, 1 credit.

Students who participate in co-curricular forensic activities may receive 1 hour credit per semester. May be repeated during junior and senior years. No student may enroll in more than one *Practicum* per semester. Majors may apply a maximum of 4 hours *Practicum* credit toward meeting major requirements. Limit — 4 hours.

COMM. 326. *Persuasive Speech*, 3 credits.

Study of oral communication as a determinant of attitudinal and behavioral change. Emphasis upon the various kinds of artistic and non-artistic proofs as they apply to human motivation. Consideration of the application of behavioral research findings to persuasion.

COMM. 329. *Business and Professional Speaking*, 3 credits.

An advanced study of the techniques of effective oral communication. Emphasis upon the various communication problems unique to business and professional communication. Consideration of the communicative skills and the roles in society which should be assumed by the communicator.

COMM. 335. *Free Speech in America*, 3 credits.

A study of the evolution of freedom of speech in America from colonial times to the present day. Emphasis on the major periods of development and on the role of courts in defining freedom of speech. Special consideration of contemporary freedom of speech controversies.

COMM. 336. *Contemporary American Political and Social Rhetoric*, 3 credits.

Study of the communicative techniques evident in contemporary American political and social movements. Consideration of the evolution and development of those movements with emphasis upon the critical analysis of major orators and significant speeches.

COMM. 340. *Practicum—Theatre*, 1 credit.

Students who participate in co-curricular theatre activities may receive 1 hour credit per semester. May be repeated during junior and senior years. No student may enroll in more than one *Practicum* per semester. Majors may apply a maximum of 4 hours *Practicum* credit toward meeting major requirements. Limit — 4 hours.

COMM. 341. *Costume Design*, 3 credits.

The study of basic design and construction techniques of stage costumes. Emphasis upon costuming in terms of the total production concept, including the directorial approach, the setting, and the lighting design. Consideration of the process of costuming a theatrical production, from first production meetings to opening night.

COMM. 342. *Survey of Costume Fashion and Manners*, 3 credits.

Study of fashion through the ages as it pertains to stage costumes and stage movement. Emphasis on clothing, hats, footwear, accessories, and their proper use. Consideration given to the enhancement of a theatrical production through use of fashion and manners.

COMM. 346. *Advanced Oral Interpretation*, 3 credits.

An advanced study of the theory of interpretation. Emphasis upon interpretation as a fine art. Consideration of the intellectual and emotional aspects of interpretative reading. *Prerequisite: Comm. 245.*

COMM. 351. *Acting*, 3 credits.

Study of the fundamental theories and methods of acting. Emphasis upon laboratory experience in the preparation of scenes. Consideration of various acting techniques through performance with maximum individual "on stage" instruction.

COMM. 352. *Directing for the Theatre*, 3 credits.

Study of the principles, problems, and techniques of play direction. Emphasis upon historical and modern theories. Consideration of techniques of direction as applied to the stage and to cinematography.

COMM. 356. *Scene Design* (1, 3), 3 credits.

Study and analysis of the visual elements of theatrical production. Emphasis on the principles and elements of design, drafting, and rendering. Consideration of the aesthetics of stage design through specific applied projects. *Prerequisite: Comm. 255.*

COMM. 358. *Stage Lighting* (1, 3), 2 credits.

Study and analysis of stage lighting. Consideration given to basic elements of electricity, electrical control and circuitry, reflection, refraction, and color. Emphasis on the lighting design, and aesthetics of a theatrical production. *Prerequisite: Comm. 255.*

COMM. 360. *Practicum—Broadcasting*, 1 credit.

Students who participate in co-curricular broadcasting activities may receive 1 hour credit per semester. May be repeated during junior and senior years. No student may enroll in more than one *Practicum* per semester. Majors may apply a maximum of 4 hours *Practicum* credit toward meeting major requirements. Limit—4 hours.

COMM. 365. *Radio Production* (2, 2), 3 credits.

Study of the principles and techniques of radio programming. Emphasis upon the application of principles to student production projects. Consideration of program development, staffing, equipment, and special effects. *Prerequisite: Comm. 271.*

COMM. 366. *Radio and Television Announcing* (2, 2), 3 credits.

Study of the vocal aspects of announcing. Emphasis upon Standard American Speech and techniques of vocal projection. Consideration of the use of microphones and recorders for news, drama, and variety presentations.

COMM. 372. *Television Production* (2, 2), 3 credits.

Study of the principles and techniques of television production. Emphasis upon the application of principles for the creation, production, and presentation of closed and open-circuit telecasts. Consideration of the utilization of art, graphics, slides, films, and broadcasting equipment. *Prerequisite: Comm. 271.*



COMM. 374. *Television Directing* (1, 4), 3 credits.

Study of the principles and procedures involved in directing the television program. Consideration given to analysis and interpretation of visual and aural concepts. Emphasis upon the theory of directing and its application to the total program design. *Prerequisite: Comm. 372.*

COMM. 375. *Basic Film Production* (1, 3), 3 credits.

Study of the principles and procedures of producing film. Emphasis on concepts, problems, techniques, and tools of film making. Consideration given to the motion picture as a medium of communication. *Prerequisite: Comm. 372 or permission of instructor.*

COMM. 379. *Public Broadcasting*, 3 credits.

Study of educational, instructional, and public-affairs programming for radio and television. Emphasis upon the theory and practice of public broadcasting. Consideration of the criteria, techniques, and uses of public broadcast programming.

COMM. 421. *Survey of Rhetorical Theory and Criticism*, 3 credits.

Study of the major rhetorical theorists from classical Greece to the present day. Emphasis upon the various periods of rhetorical development and upon the application of theory to practical criticism of public speaking. Consideration of modern-day departures from classical doctrines.

COMM. 441-442. *Development of the Drama*, 3 credits each.

Study of the origin and development of world drama. Emphasis upon outstanding plays, from the earliest known scripts to the contemporary stage. Survey of the philosophical backgrounds and elements which have permeated our culture.

COMM. 443-444. *Theatre History I and II*, 3 credits each.

Study of the physical structure and production methods of representative Western Theatres; Ancient Greece to Renaissance and Renaissance to 1900. Consideration given to scenery, auditoriums, costumes, management, and acting practices. Emphasis upon acquiring an understanding of the most important factors which have influenced performances during these periods.

COMM. 452. *Advanced Acting* (2, 2), 3 credits.

Critical study and appreciation of acting developed by lectures, reading, discussion and presentation of individual and group scenes. Consideration of dramatic literature from the Classical, Shakespearean, and Restoration periods. Emphasis on the development of techniques designed to enhance the skills of advanced students. *Prerequisite: Comm. 351.*

COMM. 461. *Broadcast Management*, 3 credits.

Study of the problems of managing a radio or television station. Emphasis upon solving specific management problems. Consideration of the social, economic and legal responsibilities of a broadcast operation. *Prerequisite: Comm. 271.*

COMM. 465. *Advanced Radio Production* (2, 2), 3 credits.

An advanced study of production techniques for commercial and educational radio broadcasting. Emphasis upon practical experience gained through student productions for the campus FM station. Consideration of production, direction, and presentation of radio programming. *Prerequisite: Comm. 365.*

COMM. 472. *Advanced Television Production* (2, 2), 3 credits.

An advanced study of production techniques for both closed and open-circuit telecasting. Emphasis upon practical experience gained through production projects on local television outlets. Consideration of production, direction, and presentation of television programs. *Prerequisite: Comm. 372.*

COMM. 474. *The Television Producer* (1, 4), 3 credits.

Study of the role and functions of the television producer in planning, implementing and evaluating the television program. Emphasis upon application of communication principles necessary for gaining the intended audience response. *Prerequisite: Comm. 472.*

COMM. 490. *Special Studies in Communication*, 1-3 credits each semester.

An independent study for students to pursue individual research under the guidance of a faculty advisor. Limited to majors in good standing who are seniors. (Offered only with consent of the Head of the Department.)

COMM. 499. *Honors in Communication*, 6 credits. Year Course.

COMM. 500. *Seminar in Communication*, 3 credits.

Study and research in the broad spectrum of communication arts and sciences. Emphasis upon integrating the various aspects for application to academic and practical use. Consideration of topics relating to drama, public address, broadcasting, and interpersonal communication.

COMM. 501 A. *Teacher's Workshop: Co-Curricular Activities* (Summer only), 3 credits.

An intensive study of the philosophy, organization, and administration of speech activities in the high schools. Emphasis on a selected area of concentration; forensics-debate, drama, or broadcasting. Opportunities for practical work with high school students attending the Madison Summer Speech and Drama Workshop. (Formerly offered as Speech 501)

COMM. 501 B. *Teacher's Workshop: Television* (Summer only), 3 credits.

An intensive study of instructional television for secondary teachers. Analysis of current research on the effects of such media in education. Evaluation of software and hardware. Emphasis on the development of program material for use by the teacher in the classroom.

COMM. 501 C. *Teacher's Workshop: Theatre* (Summer only), 3 credits.

An intensive study of the elements of play production. Consideration of theatre games, improvisation, movement, drafting, and construction of scenery units. Emphasis on the use of these elements in the preparation of a play for performance.

COMM. 501 D. *Teacher's Workshop: Communication* (Summer only), 3 credits.

An intensive study and analysis of objectives and methodology of developing communication units for use either in English classes or as independent courses. Participants will develop sample content units, based on state-approved texts, which could comprise a sequential communication program for junior and senior high schools.

COMM. 520. *Seminar in Rhetoric and Public Address*, 3 credits.

Study and research in the philosophical and historical bases of rhetorical theory. Emphasis on the process of rhetoric both as a practical art and as a scholarly method. Consideration of topics relating to the development and practice of rhetoric and public address.

COMM. 540. *Seminar in Theatre*, 3 credits.

Study and research in the aspects of academic and professional theatre. Emphasis upon research methods in solving practical problems of theatrical production. Consideration of topics relating to acting, directing, and technical elements.

COMM. 548. *Experimental Theatre*, 3 credits.

Study of creative and imaginative drama. Emphasis upon motivating and guiding advanced students to a higher degree of aesthetic appreciation of the theatre. Consideration of the relationship of experimental theatre to the traditional theatre.

COMM. 560. *Seminar in Broadcast Media*, 3 credits.

Study and research in the history, organization and mechanics of the various media. Emphasis upon the social and artistic roles of the media. Consideration of topics relating to methods of assessing the influence and effectiveness of the broadcast media.

JOUR. 109, 209, 309. *Applied News Writing*, 2 credits. Year Course.

Supervised exercises in writing news and feature copy for *The Breeze*. Review of current practices in newspaper writing, layout and makeup. (109, first year; 209, second year; 309, third year).

JOUR. 210. *Photo-Journalism*, 3 credits.

Study of news photography with emphasis upon practical application.

JOUR. 313. *Introduction to Mass Communication*, 3 credits.

Study of the history and development of the press and electronic media in relation to American social, economic, and political life. Emphasis upon the freedom and responsibility of the press and broadcasting.

JOUR. 314. *Mass Communication and Society*, 3 credits.

Study of the nature of mass communication and the role of the mass media in society. Emphasis upon contemporary problems and issues of broadcasting, film, and the press.

JOUR. 315. *News Writing*, 3 credits.

Study of the functions of modern newspaper procedure. Emphasis upon practical news gathering and writing of various kinds of newspaper articles. Suggested as a basic course for high school publications advisors and college newspaper staff.

JOUR. 316. *News Editing*, 3 credits.

Study of editorial functions. Consideration of the composing room, proof-reading, circulation, business office, and photographic laboratory. Emphasis upon headlining, makeup and rewriting.

JOUR. 415. *Feature and Editorial Writing*, 3 credits.

Study of advanced techniques of writing. Consideration of feature writing and editorial writing for both magazines and newspapers.

JOUR. 491. *Independent Study in Journalism*, 3 credits.

Individually supervised research projects in all phases of media (within the community or college). (*Offered only with consent of the Head of the Department*).

# DEPARTMENT

## of English

DR. MARK D. HAWTHORNE, *Head of the Department*

*James Madison Distinguished Professor* LOCKE

Professors ADAMS, CAVANAUGH, HAWTHORNE, McMURRAY, and  
POINDEXTER

*Associate Professors* FOLEY, FUNSTON, D. HALLMAN, LEIGH, RUFF, and  
SWINK

*Assistant Professors* ANDERSON, CARNES, R. COHEN, J. EBY, FARRAR,  
GEARY, FREDERICK, HOSKINS, McNALLIE, MORLEY-MOWER, NICKELS,  
TRENT, WSZALEK, and ZEISS

The program offered by the Department of English is designed to prepare students to enter graduate study; to prepare them for the teaching profession; and to serve as basic preparation for many professions in which skillful use of language is important; for example, law, publishing, freelance writing, creative writing, journalism, public relations, broadcasting, government, advertising, and business. It also offers to the student whose professional or vocational interests lie elsewhere an appreciation of the great literary heritage of Western Civilization, with particular emphasis upon British and American literatures, and through the humanistic study of these masterpieces a better understanding of himself.

*All students majoring in English are required to take the B.A. degree.*

The minimum requirement for a major in English is thirty (30) semester hours beyond the Basic Studies requirement, including the following required courses: English 235 or 236 (Survey of English Literature; *whichever was not taken as a part of Basic Studies*), English 247 or 248 (Survey of American Literature), English 369 (Shakespeare), one course (3 hours) in a major author exclusive of Shakespeare [English 502 (Chaucer), or English 503 (Milton), or English 510 (Special Authors Seminar)], and one course (3 hours) in a period of English or American Literature [English 320 (Literature of the Augustan Age), English 590 (Studies in Old English), English 350 (Victorian Literature), English 390 (Seventeenth-Century Poetry),

English 560 (Currents of Thought in Early Renaissance), English 440 (American Romanticism, 1820-1865), English 450 (American Realism and Naturalism to 1914)]. The student should select the remaining courses (fifteen (15) semester hours) required for the major in consultation with his adviser. Of these fifteen (15) hours, nine (9) must be at the 300 or 400 level. The student may include among his electives one advanced course (300-400 level) in literature taken in the Foreign Languages Department and Philosophy 360, (Philosophy and Modern Literature). A student desiring secondary teacher certification in English must include English 420 (Modern English Grammar) as part of the thirty (30) hours requirement, and must take English 375 (Methods of Teaching English in the Secondary School) in addition to the thirty (30) hour minimum.

The minimum requirement for a minor in English is eighteen (18) semester hours beyond English 101-102. At least nine (9) hours must be taken in courses at the three hundred (300) level or above.

A minor in English will not meet certification requirements for the Collegiate Professional Certificate.

Students seeking teacher certification in secondary education should take the following courses: Health 200 (Elements of Health Education), History 233 or 234 (United States History), Psychology 233-234 (Human Growth and Development), Education 360 (Foundations of Curriculum), Secondary Education 370 (Methods and Materials in Teaching in the Secondary School), Education 470 (History and Philosophy of Educational Thought), and Education 480 (Directed Teaching), and English 375 (Methods of Teaching English in the Secondary School).

### Exemption from Freshman English Courses

1. By Advanced Placement Tests in English:  
Students scoring "three" or better on the Advanced Placement Tests in English shall, upon application to the Head of the English Department, be exempt from taking English 101 and 102 and shall receive credit for them. In no other cases will exemption from English 102 be granted.
2. By taking and passing the Exemption Test:  
Any student believing himself qualified for exemption from English 101 because of high competence in expository composition may take the Departmental Exemption test, given

weekly during Summer Orientation and during registration week in both the fall and spring semesters, by registering in the office of the Head of the English Department. New students entering in a summer term may delay taking English 101 until fall if they wish to take the Exemption Test.

Students interested in programs in the Department of English should consult with the Head of the Department in Keezell 306.

### Four-Year Program (B.A. Degree) for a Major in English (128 Credits)

#### FRESHMAN YEAR

<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Comm. 200. Oral Communication .....	0	3
Eng. 101-102. Reading and Composition .....	3	3
Foreign Language .....	3-4	3-4
Hist. 255-256. History of Civilization .....	3	3
Math. 103. Mathematics: A Cultural Approach (or another Basic Studies Mathematics Course) .....	3	0
Basic Studies Natural Science .....	4	4
Basic Studies Physical Education .....	1	1
	17-18	17-18

#### SOPHOMORE YEAR

Eng. 235 or 236. Survey of English Literature .....	3	or	3
Foreign Language (if needed) or electives .....	3		3
Phil. 240. Introduction to Philosophy .....	3		0
Electives .....	3(6)	or	3(6)
Basic Studies Art 200 or Mus. 200 .....	0		3
Basic Studies Physical Education .....	0		1
Basic Studies Social Science .....	3		3
	15		16

At the end of his sophomore year the student majoring in English should consult with his English adviser to plan a course of study.

#### JUNIOR YEAR

English Electives .....	9	9
Other Electives .....	8	6
	17	15

#### SENIOR YEAR

English Electives .....	6	3
Other Electives .....	9	13
	15	16

**Four-Year Program (B.A. Degree) for a Major in English**  
**Qualifying for the Secondary Collegiate Professional Certificate**  
**(128 Credits)**

FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Comm. 200. Oral Communication .....		0	3
Eng. 101-102. Reading and Composition .....		3	3
Foreign Language .....	3-4		3-4
Hist. 255-256. History of Civilization .....		3	3
Math. 103 Mathematics: A Cultural Approach (or another Basic Studies Mathematics Course) .....		3	0
Basic Studies Natural Science .....		4	4
Basic Studies Physical Education .....		1	1
		<hr/>	<hr/>
		17-18	17-18

SOPHOMORE YEAR

Eng. 235 or 236. Survey of English Literature .....	3	or	3
Foreign Language (if needed) or electives .....	3		3
Hth. 200. Elements of Health Education .....	0		2
Hist. 233 or 234. United States History .....	3		0
Phil. 240. Introduction to Philosophy .....	3		0
Psyc. 233-234. Human Growth and Development .....	3		3
Basic Studies Art 200 or Mus. 200 .....	0		3
Basic Studies Physical Education .....	0		1
Electives .....	2(5)	or	0(3)
	<hr/>		<hr/>
	17		15

At the end of his sophomore year the student majoring in English should consult with his English adviser to plan a course of study.

JUNIOR YEAR

English Electives .....	9	9
Educ. 360. Foundations of Curriculum .....	3	0
Basic Studies Social Science .....	3	3
Other Electives .....	0	5
	<hr/>	<hr/>
	15	17

SENIOR YEAR

Eng. 375. Methods of Teaching English in the Secondary School .....	2	0
English Electives (including Eng. 420. Modern Grammar) ..	9	0
SeEd. 370. Methods and Materials in Teaching in the Secondary School .....	2	0
Educ. 470. History and Philosophy of Educational Thought..	0	3
Educ. 480c. Directed Teaching .....	0	8
Other Electives .....	1	5
	<hr/>	<hr/>
	14	16



## Description of Courses

ENG. 101-102. *Reading and Composition*, 3 credits each semester. Year course.

Reviews the principles of grammar and usage in oral and written English, directs reading and analysis of selected examples of prose, and requires frequent compositions with attention to logical relation and arrangement of ideas, and to readability and interest. Procedures are introduced for the effective use of the library and for the preparation of a research paper. (A student must pass English 101 before he is eligible to take English 102. *Both of these courses are prerequisites for all advanced courses in English.*)

ENG. 230. *Introduction to the Study of Film as a Narrative Art*, 3 credits.

An introduction to film which applies the concepts of literary study to an analysis of film as a form of narrative. After basic preparation in the history, theory, and techniques of moviemaking, the student will study films made by ten great directors from Chaplin to the present (two hours of lecture and one evening film screening weekly).

ENG. 233. *Introduction to Literature: Prose Fiction*, 3 credits.

An introduction to literature through the study of a limited number of carefully selected examples of prose fiction.

ENG. 234. *Introduction to Literature: Poetry and Drama*, 3 credits.

An introduction to literature through the study of a limited number of carefully selected examples of poetry and drama.

ENG. 235. *Survey of English Literature: From Beowulf to the eighteenth century*, 3 credits.

A general survey with readings, lectures, discussions, and reports, presented chronologically.

ENG. 236. *Survey of English Literature: From the eighteenth century to the modern period*, 3 credits.

A general survey with readings, lectures, discussions, and reports, presented chronologically.

ENG. 237. *Introduction to Continental European Literature*, 3 credits.

A study of short stories, novellas, and plays of the eighteenth, nineteenth, and twentieth centuries from France, Germany, Italy, Russia, and Spain.

ENG. 240. *Mythology*, 2 credits.

An examination of classical mythology and traditional myths in relation to English and American Literature.

ENG. 247. *Survey of American Literature: From the beginning to the Civil War*, 3 credits.

A survey presented historically and critically through lectures, outside readings, research papers, and discussions.

ENG. 248. *Survey of American Literature: From the Civil War to the modern period*, 3 credits.

A survey presented historically and critically through lectures, outside readings, research papers, and discussions.

ENG-PSYC. 300. *Exploring Personality Through Literature*, 6 credits.

A six-credit hour survey of personality theory approached through readings in literature and psychology. Students are required to enroll in Eng. 300 and Psyc. 300 simultaneously. *Prerequisites: Psychology 231-232 or 233-234, English 101-102, plus three hours chosen from basic studies requirements in literature.*

ENG. 317-318. *World Literature*, 3 credits each semester.

A study of the major literary masterpieces of the Western World from the time of Homer to the present. Literature is examined in relation to the other arts. Foreign works are read in English translation.

ENG. 320. *Literature of the Augustan Age*, 3 credits.

A study of English literature from 1660 to 1740 with special emphasis upon Dryden, Swift, and Pope. Attention to critical theories, intellectual and cultural movements, and literary forms.

ENG. 322. *Survey of Modern Drama*, 3 credits.

A chronological treatment of masterpieces of drama from Ibsen to the present. Some attention is paid to continental playwrights.

ENG. 330. *Imaginative Writing*, 3 credits.

Intensive exercises in writing lyric poems or short stories. Attention to selected examples of the genres by contemporary authors.

ENG. 331. *Imaginative Writing*, 3 credits.

Intensive exercises in writing lyric poems or short stories. Attention to selected examples of the genres by contemporary authors. This course is a sequel to English 330.

ENG. 340. *Romantic Poetry*, 3 credits.

A study of English Literature from 1770 to 1832, with chief emphasis upon the Pre-Romantic Poets, Wordsworth, Coleridge, Shelley, Keats, and Byron. Attention is given to critical theories, intellectual and cultural movements, and poetic forms.

ENG. 350. *Victorian Literature*, 3 credits.

A conspectus of life during the Victorian Age in England as revealed through its literature, omitting the novel.

ENG. 353. *Magazine Editing and Design*, 3 credits.

A course designed to train students in the art of magazine editing, including the formulation of editorial policy, the selection and editing of manuscripts, the selection and use of art work, a study of basic printing techniques and processes, and the development of general design, format and layout.

ENG. 360. *Studies in Comparative Literature*, 3 credits.

Studies in Greek, Roman, and European writers, including Homer, Virgil, Ovid, Horace, the Bible, Dante, Cervantes, Goethe, with special reference to their influence on literature in English.

ENG. 369. *Shakespeare*, 3 credits.

The best of Shakespeare's comedies, histories, and tragedies, with emphasis on dramatic technique and the Elizabethan stage.

ENG. 372. *English Linguistics*, 3 credits.

A course designed as an introduction to the basic ideas in current English linguistics with special instruction in the "New English" procedures.

ENG. 375. *Methods of Teaching English in the Secondary School*, 2 credits.

Recommended for students in their senior year. Methods and materials for the effective presentation of the content of high school English courses will be studied.

ENG. 390. *Seventeenth-Century Poetry*, 3 credits.

Study of the chief poets of the seventeenth century from Donne to the Restoration.

ENG. 408. *Development of the American Short Story*, 3 credits.

The American short story from its beginning to the present.

ENG. 410. *History and Development of the English Language*, 3 credits.

An introduction to the historical development of the English language from its origins to the twentieth century. Major attention is devoted to the language and usage of major literary figures and eras, including Chaucer, Shakespeare, the King James Bible, seventeenth century prose, modern prose, etc. The course is designed as a supplement to purely literary studies.

ENG. 418. *Twentieth-Century Poetry*, 3 credits.

A study of British and American poetry since 1900.

ENG. 419. *Traditional Grammar*, 3 credits.

A course designed primarily for those who will teach grammar which will cover thoroughly traditional grammar rules, probing their logic, system, and history. The content is grammar rather than teaching methods; a student's knowledge of teaching methods is neither irrelevant nor necessary in his work in the course. Modern adaptations of conventional rules will be examined.

ENG. 420. *Modern English Grammar*, 3 credits.

An introduction to a structural and transformational grammar of English, including phonology, morphology, and syntax. A few of the problems of teaching English at the primary and secondary levels are examined in the light of modern practices. (Required of students desiring secondary teacher certification in English and suggested for those who wish to extend their knowledge of grammar.)

ENG. 422. *Advanced Composition*, 3 credits.

A study of and extensive exercises in techniques of expository writing, with emphasis on rhetorical types of composition, designed to develop in the student sophistication of style.

ENG. 423. *The British Novel to 1920*, 3 credits.

A survey of the evolution of the British novel from the beginning with an examination of major works from Fielding to Conrad.

ENG. 424. *The Modern British and American Novel*, 3 credits.

This course will deal with selected British novelists after 1920 and with American novelists after 1930. Some attention will be given to writers who have emerged during the 50's and 60's. (Formerly English 525.)

ENG. 425. *The American Novel to 1930*, 3 credits.

A study of the development of the American novel with an examination of some of the major works from Hawthorne to Faulkner.

ENG. 430. *Early American Literature*, 3 credits.

A study of the significant genres, writers and literary movements of the seventeenth and eighteenth centuries.

ENG. 440. *American Romanticism, 1820-1865*, 3 credits.

A study of selected works of such major figures as Emerson, Thoreau, Hawthorne, Poe, Melville, Whitman, and others.

ENG. 442. *Southern Literature*, 3 credits.

A study of modern Southern authors, especially those of the twentieth century.

ENG. 450. *American Realism and Naturalism to 1914*, 3 credits.

A study of selected works of such major figures as Dickinson, Twain, Howells, James, Crane, Norris, Dreiser, and others.

ENG. 460. *Seminar in English Literature*, 3 credits.

A review of English literature designed to emphasize relationships of authors and periods studied in elective courses, and to give the student an opportunity, through individual oral and written reports, and class discussion, to study those works and movements with which he is not familiar. (Restricted to senior students majoring in English.)

ENG. 480. *Twentieth-Century British or American Author*, 3 credits.

A study of the major works of a twentieth-century British or American author.

ENG. 490. *Special Studies in English*, 1-3 credits each semester.

Designed to give capable and interested students in English an opportunity to do independent study under faculty supervision. The student may elect work in (1) a literary type, period, or author; (2) creative writing. Enrollment in

English 490 is generally limited to students majoring in English who have a high academic standing. (Permission to enroll in English 490 must be secured from the Head of the Department.)

ENG. 499. *Honors*, 6 credits. Year Course.

ENG. 501. *Growth and Structure of the English Language*, 3 credits.

An introduction to the history of the English language with attention to the changing forms of speech as reflected in morphology, phonology, syntax, and semantics. Reading and research in special phases of historical and descriptive grammar.

ENG. 502. *Chaucer*, 3 credits.

A study of *The Canterbury Tales* and other major works of Chaucer. (Formerly English 310.)

ENG. 503. *Milton*, 3 credits.

The major prose and poetical works of John Milton are studied in the context of his times, with special emphasis on *Paradise Lost*. (Formerly English 426.)

ENG. 510. *Special Authors Seminar*, 3 credits.

An intensive study of a major English or American author or of a selected group of authors.

ENG. 512. *Special Topic Seminar*, 3 credits.

A study of a literary school, movement, genre, or some other significant literary topic.

ENG. 535. *The History of Literary Criticism*, 3 credits.

A survey of the nature, function, and development of literary criticism from Aristotle to Eliot. Major emphasis will be given to English critics.

ENG. 550. *Modern Drama*, 3 credits.

A study of the representative plays of modern and contemporary dramatists, beginning with Ibsen, Shaw and O'Neill. Wide reading in the works of the chief contemporary dramatists will be required.

ENG. 560. *Currents of Thought in Early Renaissance*, 3 credits.

The awareness of history and human possibility from Erasmus's *In Praise of Folly* to Shakespeare's *Richard III*.

ENG. 572. *Contemporary Approaches to English Linguistics*, 3 credits.

A course designed for teachers who desire to familiarize themselves with the basic ideas and procedures in the various approaches to the "New English." Special attention is paid to the utility of these approaches in the classroom.

ENG. 590. *Studies in Old English*, 3 credits.

The Old English language with readings in selected poetry and prose of the period.

# DEPARTMENT

## of Foreign Languages

DR. ELIZABETH B. NEATROUR, *Head of the Department*

*Professors* CONIS and LISLE

*Associate Professors* BARROSO, HAMLET-METZ, KYLER, E. NEATROUR,  
and STEWART

*Assistant Professors* ALIOTTI, COHEN, HOLOVATY, and PERLMAN

The Department of Foreign Languages offers programs designed (1) to teach the student to understand and to speak a language with facility, to develop skill in reading and writing, and to provide an acquaintance with foreign literatures and an appreciation of foreign cultures; (2) to prepare students for the teaching profession, government work, international trade, and research leading to advanced degrees. Majors are offered in French, German, Latin, Russian and Spanish. Minors are offered in all five languages.

The minimum requirement for a major in a modern foreign language is twenty-four (24) semester hours beyond the elementary level. The distribution in modern foreign languages is as follows: Twelve to fifteen (12-15) semester hours in conversation, composition, diction, and grammar; three to six (3-6) semester hours in civilization; six to nine (6-9) semester hours in literature. A student majoring in one foreign language must also earn at least twelve (12) semester hours of credit in a second foreign language.

The minimum requirement for a major in Latin is 24 semester hours beyond the elementary level including: Latin 231-232 (Intermediate Latin); Latin 300 (The Dynamics of Power in the Roman Empire) or Latin 358 (Classical Civilization); Latin 410 (Advanced Syntax and Composition) plus 12 semester credits in 300 or 400 level literature courses. A student majoring in Latin must earn at least 12 semester hours of credit in a second foreign language.

Students seeking teacher certification in secondary education should take the following courses: Health 200 (Elements of Health Education), History 233 or 234 (United States History); Psychology

233-234 (Human Growth and Development); Education 360 (Foundations of Curriculum); Secondary Education 370 (Methods and Materials in Teaching in the Secondary School); Education 470 (History and Philosophy of Educational Thought); Education 480 (Directed Teaching), and Foreign Language 350 (Teaching of Foreign Languages).

A minor in a foreign language will consist of eighteen (18) semester hours in sequence. However, eighteen (18) semester hours of credits will not be sufficient to meet the requirements for the Collegiate Professional Certificate in a foreign language.

A minor in a foreign language for Elementary Education majors consists of eighteen (18) semester hours in one language and three (3) semester hours in "Teaching of Foreign Languages" (FL. 350).

Placement tests are given to those majors presenting two or more years of a foreign language at the secondary school level. Final decision on advanced placement rests with the Department of Foreign Languages.

Students interested in a program offered by the Department of Foreign Languages should consult the Head of the Department, 301-A Keezell Hall.

#### Four-Year Program (B.A. Degree) for a Major in French (128 Credits)

##### FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Fr. 101-102. Elementary French (or Fr. 231-232. Intermediate French or Fr. 300. French Conversation and Advanced Composition and Fr. 308. Introduction to French Civilization) . . . . .	3-4		3-4
Elective in a Second Foreign Language . . . . .	3-4		3-4
Comm. 200. Oral Communication . . . . .	0		3
Eng. 101-102. Reading and Composition . . . . .	3		3
Hist. 255-256. History of Civilization . . . . .	3		3
Math. 103. Mathematics: A Cultural Approach( or another Basic Studies Mathematics course) . . . . .	3		0
Basic Studies Physical Education . . . . .	1		1
		<hr/>	<hr/>
		16-17	16-17

SOPHOMORE YEAR

Fr. 231-232. Intermediate French (or Fr. 300 and Fr. 308 or Fr. 327-328. Survey of French Literature or Fr. 315. Advanced French Diction and Conversation and Fr. 320. Advanced French Grammar) . . . . .	3	3
Elective in a Second Foreign Language . . . . .	3	3
Basic Studies Art 200 or Mus. 200 . . . . .	0	3
Basic Studies Natural Science . . . . .	4	4
Basic Studies Physical Education . . . . .	1	0
Basic Studies Social Science . . . . .	3	3
Electives . . . . .	3	0
	<hr/>	<hr/>
	17	16

JUNIOR YEAR

Fr. 300. French Conversation and Advanced Composition . . . . .	3	0
Fr. 300 or 400 level courses . . . . .	3	3
Phil. 240. Introduction to Philosophy . . . . .	0	3
Electives . . . . .	10	11
	<hr/>	<hr/>
	16	17

SENIOR YEAR

Fr. 300 or 400 level courses . . . . .	6	3
Electives . . . . .	9	12
	<hr/>	<hr/>
	15	15

**Four-Year Program (B.A. Degree) for a Major in French  
Qualifying for the Secondary Collegiate Professional  
Certificate (128 Credits)**

FRESHMAN YEAR

	<i>Credits per Semester:</i>	
	<i>1st</i>	<i>2nd</i>
Fr. 101-102. Elementary French (or Fr. 231-232. Intermediate French or Fr. 300. French Conversation and Advanced Composition and Fr. 308. Introduction to French Civilization) . . . . .	3-4	3-4
Elective in a Second Foreign Language . . . . .	3-4	3-4
Comm. 200. Oral Communication . . . . .	0	3
Eng. 101-102. Reading and Composition . . . . .	3	3
Hist. 255-256. History of Civilization . . . . .	3	3
Basic Studies Mathematics . . . . .	3	0
Basic Studies Physical Education . . . . .	1	1
	<hr/>	<hr/>
	16-17	16-17



SOPHOMORE YEAR

Fr. 231-232. Intermediate French (or Fr. 300 and Fr. 308 or Fr. 327-328. Survey of French Literature or Fr. 315. Advanced French Diction and Conversation and Fr. 320. Advanced French Grammar) . . . . .	3	3
Elective in a Second Foreign Language . . . . .	3	3
Hth. 200. Elements of Health Education . . . . .	2	0
Psyc. 233-234. Human Growth and Development . . . . .	3	3
Basic Studies Art 200 or Mus. 200 . . . . .	0	3
Basic Studies Natural Science . . . . .	4	4
Basic Studies Physical Education . . . . .	1	0
	<hr/>	<hr/>
	16	16

JUNIOR YEAR

Fr. 300. French Conversation and Advanced Composition . . . . .	3	0
Fr. 300 or 400 level courses . . . . .	3	3
Educ. 360. Foundations of Curriculum . . . . .	3	0
SeEd. 370. Methods and Materials in Teaching in the Secondary School . . . . .	0	2
Hist. 233 or 234. United States History . . . . .	0	3
Phil. 240. Introduction to Philosophy . . . . .	3	0
Basic Studies Social Science . . . . .	3	3
Electives . . . . .	3	4
	<hr/>	<hr/>
	18	15

SENIOR YEAR

Fr. 300 or 400 level courses . . . . .	6	3
Educ. 470. History and Philosophy of Educational Thought . . . . .	3	0
Educ. 480. Directed Teaching . . . . .	0	8
FL. 350. Teaching of Foreign Languages . . . . .	3	0
Electives . . . . .	5	3
	<hr/>	<hr/>
	17	14

**Four-Year Program (B.A. Degree) for a Major in German  
(128 Credits)**

FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Ger. 101-102. Elementary German (or Ger. 231-232. Intermediate German) .....	3-4	3-4	3-4
Elective in a Second Foreign Language .....	3-4	3-4	3-4
Comm. 200. Oral Communication .....	0	3	3
Eng. 101-102. Reading and Composition .....	3	3	3
Hist. 255-256. History of Civilization .....	3	3	3
Math. 103. Mathematics: A Cultural Approach (or another Basic Studies Mathematics course) .....	3	0	0
Basic Studies Physical Education .....	1	1	1
		16-17	16-17

SOPHOMORE YEAR

Ger. 231-232. Intermediate German (or Ger. 300. German Conversation and Advanced Composition and Ger. 308. Introduction to German Civilization)	3	3	3
Elective in a Second Foreign Language .....	3	3	3
Basic Studies Art 200 or Mus. 200 .....	0	3	3
Basic Studies Natural Science .....	4	4	4
Basic Studies Physical Education .....	1	0	0
Basic Studies Social Science .....	3	3	3
Electives .....	3	0	0
	17	16	16

JUNIOR YEAR

Ger. 300. German Conversation and Advanced Composition ...	3	0	0
Ger. 300 or 400 level courses .....	3	3	3
Phil. 240. Introduction to Philosophy .....	0	3	3
Electives .....	10	11	11
	16	17	17

SENIOR YEAR

Ger. 300 or 400 level courses .....	6	3	3
Electives .....	9	12	12
	15	15	15

**Four-Year Program (B.A. Degree) for a Major in German  
Qualifying for the Secondary Collegiate Professional  
Certificate (128 Credits)**

FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Ger. 101-102. Elementary German (or Ger. 231-232. Intermediate German) .....	3-4		3-4
Elective in a Second Foreign Language .....	3-4		3-4
Comm. 200. Oral Communication .....	0		3
Eng. 101-102. Reading and Composition .....	3		3
Hist. 255-256. History of Civilization .....	3		3
Basic Studies Mathematics .....	3		0
Basic Studies Physical Education .....	1		1
		<hr/>	<hr/>
		16-17	16-17

SOPHOMORE YEAR

Ger. 231-232. Intermediate German (or Ger. 300. German Conversation and Advanced Composition and Ger. 308. Introduction to German Civilization) .....	3		3
Elective in a Second Foreign Language .....	3		3
Hth. 200. Elements of Health Education .....	2		0
Psyc. 233-234. Human Growth and Development .....	3		3
Basic Studies Art 200 or Mus. 200 .....	0		3
Basic Studies Natural Science .....	4		4
Basic Studies Physical Education .....	1		0
		<hr/>	<hr/>
		16	16

JUNIOR YEAR

Ger. 300. German Conversation and Advanced Composition ...	3		0
Ger. 300 or 400 level courses .....	3		3
Educ. 360. Foundations of Curriculum .....	3		0
SeEd. 370. Methods and Materials in Teaching in the Secondary School .....	0		2
Hist. 233 or 234. United States History .....	0		3
Phil. 240. Introduction to Philosophy .....	3		0
Basic Studies Social Science .....	3		3
Electives .....	3		4
		<hr/>	<hr/>
		18	15

SENIOR YEAR

Ger. 300 or 400 level courses .....	6		3
Educ. 470. History and Philosophy of Educational Thought ...	3		0
Educ. 480. Directed Teaching .....	0		8
FL. 350. Teaching of Foreign Languages .....	3		0
Electives .....	5		3
		<hr/>	<hr/>
		17	14

**Four-Year Program (B.A. Degree) for a Major in Latin**  
(128 Credits)

FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Lat. 101-102. Elementary Latin (or Lat. 231-232. Intermediate Latin) .....	3-4	3-4	3-4
Elective in a Second Foreign Language .....	3-4	3-4	3-4
Comm. 200. Oral Communication .....	0	3	3
Eng. 101-102. Reading and Composition .....	3	3	3
Hist. 255-256. History of Civilization .....	3	3	3
Math. 103. Mathematics: A Cultural Approach (or another Basic Studies Mathematics course) .....	3	0	0
Basic Studies Physical Education .....	1	1	1
	<hr/>	<hr/>	<hr/>
	16-17	16-17	16-17

SOPHOMORE YEAR

Lat. 231-232. Intermediate Latin .....	3	3	3
Elective in a Second Foreign Language .....	3	3	3
Basic Studies Art 200 or Mus. 200 .....	0	3	3
Basic Studies Natural Science .....	4	4	4
Basic Studies Physical Education .....	1	0	0
Basic Studies Social Science .....	3	3	3
Electives .....	3	0	0
	<hr/>	<hr/>	<hr/>
	17	17	16

JUNIOR YEAR

Lat. 300 or 400 level courses .....	6	6	6
Phil. 240. Introduction to Philosophy .....	0	3	3
Electives .....	10	8	8
	<hr/>	<hr/>	<hr/>
	16	16	17

SENIOR YEAR

Lat. 300 or 400 level courses .....	3	3	3
Electives .....	12	12	12
	<hr/>	<hr/>	<hr/>
	15	15	15

**Four-Year Program (B.A. Degree) for a Major in Latin  
Qualifying for the Secondary Collegiate Professional  
Certificate (128 Credits)**

FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Lat. 101-102. Elementary Latin (or Lat. 231-232. Intermediate Latin) .....	3-4	3-4	3-4
Elective in a Second Foreign Language .....	3-4	3-4	3-4
Comm. 200. Oral Communication .....	0	3	3
Eng. 101-102. Reading and Composition .....	3	3	3
Hist. 255-256. History of Civilization .....	3	3	3
Basic Studies Mathematics .....	3	0	0
Basic Studies Physical Education .....	1	1	1
	<hr/>	<hr/>	<hr/>
	16-17	16-17	16-17

SOPHOMORE YEAR

Lat. 231-232. Intermediate Latin .....	3	3	3
Elective in a Second Foreign Language .....	3	3	3
Hth. 200. Elements of Health Education .....	2	0	0
Psyc. 233-234. Human Growth and Development .....	3	3	3
Basic Studies Art 200 or Mus. 200 .....	0	3	3
Basic Studies Natural Science .....	4	4	4
Basic Studies Physical Education .....	1	0	0
	<hr/>	<hr/>	<hr/>
	16	16	16

JUNIOR YEAR

Lat. 300 or 400 level courses .....	6	6	6
Educ. 360. Foundations of Curriculum .....	3	0	0
SeEd. 370. Methods and Materials in Teaching in the Secondary School .....	0	2	2
Hist. 233 or 234. United States History .....	0	3	3
Phil. 240. Introduction to Philosophy .....	3	0	0
Basic Studies Social Science .....	3	3	3
Electives .....	3	0	0
	<hr/>	<hr/>	<hr/>
	18	14	14

SENIOR YEAR

Lat. 300 or 400 level courses .....	3	3	3
Educ. 470. History and Philosophy of Educational Thought ....	3	0	0
Educ. 480. Directed Teaching .....	0	8	8
FL. 350. Teaching of Foreign Languages .....	3	0	0
Electives .....	8	4	4
	<hr/>	<hr/>	<hr/>
	17	15	15

Four-Year Program (B.A. Degree) for a Major in Russian  
(128 Credits)

FRESHMAN YEAR

	<i>Credits per Semester:</i>	
	<i>1st</i>	<i>2nd</i>
Rus. 101-102. Elementary Russian (or Rus. 231-232. Intermediate Russian or Rus. 300. Russian Conversation and Composition and Rus. 308. Introduction to Russian Civilization) .....	3-4	3-4
Elective in a Second Foreign Language .....	3-4	3-4
Comm. 200. Oral Communication .....	0	3
Eng. 101-102. Reading and Composition .....	3	3
Hist. 255-256. History of Civilization .....	3	3
Math. 103. Mathematics: A Cultural Approach (or another Basic Studies Mathematics course) .....	3	0
Basic Studies Physical Education .....	1	1
	<hr/>	<hr/>
	16-17	16-17

SOPHOMORE YEAR

Rus. 231-232. Intermediate Russian (or Rus. 300 and Rus. 308, or Rus. 315. Russian Phonetics) .....	3	3
Elective in a Second Foreign Language .....	3	3
Basic Studies Art 200 or Mus. 200 .....	0	3
Basic Studies Natural Science .....	4	4
Basic Studies Physical Education .....	1	0
Basic Studies Social Science .....	3	3
Electives .....	3	0
	<hr/>	<hr/>
	17	16

JUNIOR YEAR

Rus. 300. Russian Conversation and Composition .....	3	0
Rus. 300 or 400 level courses .....	3	3
Phil. 240. Introduction to Philosophy .....	0	3
Electives .....	10	11
	<hr/>	<hr/>
	16-17	16-17

SENIOR YEAR

Rus. 300 or 400 level courses .....	6	3
Electives .....	9	12
	<hr/>	<hr/>
	15	15

**Four-Year Program (B.A. Degree) for a Major in Russian  
Qualifying for the Secondary Collegiate Professional Certificate  
(128 Credits)**

FRESHMAN YEAR

	<i>Credits per Semester:</i>	
	<i>1st</i>	<i>2nd</i>
Rus. 101-102. Elementary Russian (or Rus. 231-232. Intermediate Russian or Rus. 300. Russian Conversation and Composition and Rus. 308. Introduction to Russian Civilization) .....	3-4	3-4
Elective in a Second Foreign Language .....	3-4	3-4
Comm. 200. Oral Communication .....	0	3
Eng. 101-102. Reading and Composition .....	3	3
Hist. 255-256. History of Civilization .....	3	3
Basic Studies Mathematics .....	3	0
Basic Studies Physical Education .....	1	1
	<hr/>	<hr/>
	16-17	16-17

SOPHOMORE YEAR

Rus. 231-232. Intermediate Russian (or Rus. 300 and Rus. 308, or Rus. 315. Russian Phonetics) .....	3	3
Elective in a Second Foreign Language .....	3	3
Hth. 200. Elements of Health Education .....	2	0
Psyc. 233-234. Human Growth and Development .....	3	3
Basic Studies Art 200 or Mus. 200 .....	0	3
Basic Studies Natural Science .....	4	4
Basic Studies Physical Education .....	1	0
	<hr/>	<hr/>
	16	16

JUNIOR YEAR

Rus. 300. Russian Conversation and Composition .....	3	0
Rus. 300 or 400 level courses .....	3	3
Educ. 360. Foundations of Curriculum .....	3	0
SeEd. 370. Methods and Materials in Teaching in the Secondary School .....	0	2
Hist. 233 or 234. United States History .....	0	3
Phil. 240. Introduction to Philosophy .....	3	0
Basic Studies Social Science .....	3	3
Electives .....	3	4
	<hr/>	<hr/>
	18	15

SENIOR YEAR

Rus. 300 or 400 level courses .....	6	3
Educ. 470. History and Philosophy of Educational Thought ...	3	0
Educ. 480. Directed Teaching .....	0	8
FL. 350. Teaching of Foreign Languages .....	3	0
Electives .....	5	3
	<hr/>	<hr/>
	17	14

**Four-Year Program (B.A. Degree) for a Major in Spanish  
(128 Credits)**

FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Span. 101-102. Elementary Spanish (or Span. 231-232. Intermediate Spanish or Span. 300. Spanish Conversation and Advanced Composition and Span. 308. Hispanic Civilization) .....	3-4		3-4
Elective in a Second Foreign Language .....	3-4		3-4
Comm. 200. Oral Communication .....	0		3
Eng. 101-102. Reading and Composition .....	3		3
Hist. 255-256. History of Civilization .....	3		3
Math. 103. Mathematics: A Cultural Approach (or another Basic Studies Mathematics course) .....	3		0
Basic Studies Physical Education .....	1		1
	<hr/>		<hr/>
	16-17		16-17

SOPHOMORE YEAR

Span. 231-232. Intermediate Spanish (or Span. 300 and Span. 308 or Span. 310. Survey of Spanish Literature and Span. 315. Advanced Diction and Conversation) .....	3		3
Elective in a Second Foreign Language .....	3		3
Basic Studies Art 200 or Mus. 200 .....	0		3
Basic Studies Natural Science .....	4		4
Basic Studies Physical Education .....	1		0
Basic Studies Social Science .....	3		3
Electives .....	3		0
	<hr/>		<hr/>
	17		16

JUNIOR YEAR

Span. 300. Spanish Conversation and Advanced Composition ..	3		0
Span. 300 or 400 level courses .....	3		3
Phil. 240. Introduction to Philosophy .....	0		3
Electives .....	10		11
	<hr/>		<hr/>
	16		17

SENIOR YEAR

Span. 300 or 400 level courses .....	6		3
Electives .....	9		12
	<hr/>		<hr/>
	15		15



**Four-Year Program (B.A. Degree) for a Major in Spanish  
Qualifying for the Secondary Collegiate Professional  
Certificate (128 Credits)**

FRESHMAN YEAR

	<i>Credits per Semester:</i>	
	<i>1st</i>	<i>2nd</i>
Span. 101-102. Elementary Spanish (or Span. 231-232. Intermediate Spanish or Span. 300. Spanish Conversation and Advanced Composition and Span. 308. Hispanic Civilization) .....	3-4	3-4
Elective in a Second Foreign Language .....	3-4	3-4
Comm. 200. Oral Communication .....	0	3
Eng. 101-102. Reading and Composition .....	3	3
Hist. 255-256. History of Civilization .....	3	3
Basic Studies Mathematics .....	3	0
Basic Studies Physical Education .....	1	1
	16-17	16-17

SOPHOMORE YEAR

Span. 231-232. Intermediate Spanish (or Span. 300 and Span. 308 or Span. 310. Survey of Spanish Literature and Span. 315. Advanced Diction and Conversation) .....	3	3
Elective in a Second Foreign Language .....	3	3
Hth. 200. Elements of Health Education .....	2	0
Psyc. 233-234. Human Growth and Development .....	3	3
Basic Studies Art 200 or Mus. 200 .....	0	3
Basic Studies Natural Science .....	4	4
Basic Studies Physical Education .....	1	0
	16	16

JUNIOR YEAR

Span. 300. Spanish Conversation and Advanced Composition ..	3	0
Span. 300 or 400 level courses .....	3	3
Educ. 360. Foundations of Curriculum .....	3	0
SeEd. 370. Methods and Materials in Teaching in the Secondary School .....	0	2
History 233 or 234. United States History .....	0	3
Phil. 240. Introduction to Philosophy .....	3	0
Basic Studies Social Science .....	3	3
Electives .....	3	4
	18	15

## SENIOR YEAR

Span. 300 or 400 level courses .....	6	3
Educ. 470. History and Philosophy of Educational Thought ....	3	0
Educ. 480. Directed Teaching .....	0	8
FL. 350. Teaching of Foreign Languages .....	3	0
Electives .....	5	3
	17	14

### Description of Courses

#### DEPARTMENTAL COURSES

FL. 309. *Civilization: Travel-Study*, 1-3 credits.

This course is designed to augment a student's knowledge of a particular civilization through a directed program of travel-study. Arrangements must be made with the faculty member designated by the Head of the Department. Permission by the Head of the Department is required prior to enrollment in the program.

FL. 350. *Teaching of Foreign Languages*, 3 credits.

Prospective modern foreign language and Latin teachers will become acquainted with the materials (records, tapes, books, films, etc.) available in the field. Problems in the teaching and administration of foreign language programs on the elementary and secondary level will be analyzed. Techniques in the use of a foreign-language laboratory, audio-visual aids, selection of textbooks, the application of linguistics, and cultural instruction will be discussed. Observations and instructional films. This course is part of the major-minor requirements for students seeking teacher certification.

FL. 490. *Special Studies in Foreign Languages*, 1-3 credits each semester.

This course is designed to give superior students an opportunity to do independent study under faculty supervision. Work may be done in all languages offered in the department. Permission to enroll must be secured from the Head of the Department.

FL. 499. *Honors*, 6 credits.

#### LITERATURE COURSES IN TRANSLATION

GER. 366. *Recent and Contemporary German Literature in Translation*, 3 credits.

This course traces German literature since the Twenties: expressionism, aestheticism and the literature of ideological commitment; literature in exile, "inner emigration" and German writing since 1945. Readings from such writers as Thomas Mann, Brecht, Musil, Borchert, Boll, Durrenmatt, Frisch and Grass. A knowledge of German is not required. All lectures and readings are in English. This course may be taken to fulfill basic studies requirements in literature (3 credits) but does not count toward certification in German. *Prerequisite: None.* Open to all students.

Rus. 365-366. *Russian Literature in Translation*, 3 credits each semester.

This survey course will treat Russian literature up to 1880 during the first semester and from 1880 to the present during the second semester. A knowledge of Russian is not required. All lectures and readings are in English. Either semester may be taken to fulfill basic studies requirements in literature (3 credits), but the course does not count toward certification in Russian. *Prerequisite: None.* Open to all students.

## French

FR. 101-102. *Elementary French* (4,1), 4 credits each semester.

A rapid college course of one continuous year for students who offer no entrance credit in the language. A study of the fundamentals of the French language through written and oral grammar drills, conversation, reading, dictation and composition. Extensive practice in pronunciation, dictation and development of aural comprehension through two half-hour sessions a week in the language laboratory.

FR. 105-106. *Elementary French Reading*, 3 credits each semester.

An introductory course for students who intend to acquire only a reading knowledge of French. A systematic study of the fundamentals of grammar. Intensive reading of simple passages for content and meaning. This course is not part of the requirements for a major or minor in French, nor is it a prerequisite for French 231-232.

FR. 205-206. *Intermediate French Reading*, 3 credits each semester.

Brief grammar review. Increased emphasis on vocabulary building and reading for meaning rather than mere translation. Selections from the fields of the humanities, social and natural sciences according to individual needs. Completion of this course fulfills the foreign language requirements for the B.A. degree. This course is not part of the requirements for a major or minor in French. *Prerequisites: Fr. 105-106 or equivalent.*

FR. 231-232. *Intermediate French*, 3 credits each semester.

A thorough grammar review, composition, dictation, and conversation. Skills in reading and writing are developed through easy readings of French literature. *Prerequisite: One year of college French or equivalent.*

FR. 300. *French Conversation and Composition*, 3 credits.

Intensive training in the use and comprehension of modern everyday French with emphasis upon conversation and composition to give the student confidence in expressing himself in simple idiomatic French. *Prerequisite: Fr. 232 or equivalent.*

FR. 308. *Introduction to French Civilization*, 3 credits.

A study of French life and culture and the outstanding contributions of France to world civilization. Instruction is in French. *Prerequisite: Fr. 232 or equivalent.*

FR. 315. *French Phonetics*, 3 credits.

Intensive drill on French sounds, study of intonation in the reading of poetry and prose. Instruction is in French. *Prerequisite: Fr. 232 or equivalent.*

FR. 320. *Advanced French Grammar*, 3 credits.

Advanced course in grammar and syntax with extensive practice in composition. Instruction is in French. *Prerequisite: Fr. 300 or equivalent.*

FR. 327-328. *Survey of French Literature*, 3 credits each semester.

A thorough analysis of selected passages from important authors of French Literature, giving the student a sufficient background for his understanding of the evolution of French literary thought. The first semester extends from the Middle Ages through the Classical Period. The second semester treats French literature from the 18th Century to the present. Instruction is in French. *Prerequisite: Fr. 300 or equivalent.*

FR. 405. *The French Romantic Movement*, 3 credits.

Follows the main current of French literature during the first half of the Nineteenth Century with special stress upon Victor Hugo, Alphonse de Lamartine, Alfred de Vigny, Alfred de Musset, and others. Instruction is in French. *Prerequisite: Three years of college French or equivalent.*

FR. 406. *The French Realistic Movement*, 3 credits.

Follows the main current of French literature during the second half of the Nineteenth Century with special stress upon the works of Honore de Balzac, Stendhal, Gustave Flaubert, Emile Zola, and others. Instruction is in French. *Prerequisite: Three years of college French or equivalent.*

FR. 420. *The French Theater*, 3 credits.

A study of the evolution of the dramatic genre from the Classical period to the 20th Century and its importance in French literature and civilization as shown in the plays of Corneille, Racine, Moliere, Voltaire, Diderot, Marivaux, Beaumarchais, Hugo, Musset, de Vigny, Claudel and Sartre. Instruction is in French. *Prerequisite: Three years of college French or equivalent.*

FR. 425. *French Literature of the Twentieth Century*, 3 credits.

Such Modern French writers as Jules Romains, Georges Duhamel, Andre Maurois, J. Paul Sartre, Albert Camus and others will be studied. Instruction is in French. *Prerequisite: Three years of college French or equivalent.*

FR. 450. *Stylistics and Advanced Composition*, 3 credits.

A study of various styles through analysis of broadly representative writings. Development and acquisition of correct idiomatic style in written French. *Prerequisite: Fr. 320 or equivalent.* Instruction is in French.

## German

GER. 101-102. *Elementary German* (4, 1), 4 credits each semester.

An introductory course designed to enable students to master the fundamentals of grammar; ample practice in reading, speaking, and writing German. Simple conversations on everyday topics. Extensive practice in pronunciation will be done in the language laboratory in two half-hour sessions a week.

GER. 105-106. *Elementary German Reading*, 3 credits each semester.

An introductory course for students who intend to acquire only a reading knowledge of German. A systematic study of the fundamentals of grammar. Intensive reading of simple passages for content and meaning. This course cannot be counted toward a major or minor in German, nor is it a prerequisite for German 231-232.

GER. 205-206. *Intermediate German Reading*, 3 credits each semester.

Brief grammar review. Increased emphasis on vocabulary building and reading for meaning rather than mere translation. Selections from the fields of the humanities, social and natural sciences according to individual needs. Completion of this course fulfills the foreign language requirements for the B.A. degree. This course cannot be counted toward a major or minor in German. *Prerequisites: German 105-106 or equivalent.*

GER. 231-232. *Intermediate German*, 3 credits each semester.

Brief grammar review. Skills in reading and writing German are developed. Exercises in simple composition; conversations based on everyday topics. Outside readings. *Prerequisite: One year of college German or equivalent.*

GER. 300. *German Conversation and Composition*, 3 credits.

Intensive training in the use and comprehension of everyday German. Emphasis upon conversation, intonation and sounds. Compositions based on topics used in conversational practice and parallel readings of contemporary interest. *Prerequisite: German 232 or equivalent.*

GER. 305-306. *Scientific German*, 3 credits each semester.

An introductory language course for juniors and seniors majoring in the sciences and mathematics to enable them to read texts in their specialty. German grammar, vocabulary and syntax will be presented with the main objective being reading, comprehension and facile translation of technical materials. Instruction in this course will be in English and no language prerequisites are needed.

GER. 308. *Introduction to German Civilization*, 3 credits.

A comprehensive study of the history and the cultural contributions of the German-speaking people of western Europe. Lectures, discussions, oral and written reports. Instruction is in German. *Prerequisite: German 232 or equivalent.*

GER. 320. *Advanced German Grammar*, 3 credits.

Advanced course in German grammar and syntax with extensive practice in composition. Instruction is in German. *Prerequisite: German 300 or equivalent.*

GER. 366. *Recent and Contemporary German Literature in Translation*, 3 credits.

This course traces German literature since the Twenties: expressionism, aestheticism and the literature of ideological commitment; literature in exile, "inner emigration" and German writing since 1945. Readings from such writers as Thomas Mann, Brecht, Musil, Borchert, Boll, Durrenmatt, Frisch and Grass. A knowledge of German is not required. All lectures and readings are in English. This course may be taken to fulfill basic studies requirements in literature (3 credits) but does not count toward certification in German. *Prerequisite: None.* Open to all students.

GER. 405. *The Age of German Classicism*, 3 credits.

Readings and interpretation of significant works of Lessing, Schiller, and Goethe. Instruction is in German. *Prerequisite: Three years of college German or equivalent.*

GER. 415. *German Romanticism and Realism*, 3 credits.

A study of romanticism and realism with emphasis on romantic poetry and the realistic novel. Instruction in German. *Prerequisite: Three years of college German or equivalent.*

GER. 426. *Modern German Literature*, 3 credits.

A study of the main literary trends of the Twentieth Century. The works of such writers as Herman Hesse, Thomas Mann, Rainer Maria Rilke, Franz Kafka, Heinrich Boll, and Bertolt Brecht are discussed. Instruction is in German. *Prerequisite: Three years of college German or equivalent.*

GER. 428. *German Drama*, 3 credits.

A study of the drama during the Nineteenth and Twentieth Centuries from Heinrich von Kleist to Fredrich Duren matt. Instruction is in German. *Prerequisite: Three years of college German or equivalent.*

## Latin

LAT. 101-102. *Elementary Latin*, 4 credits each semester.

Based on the structural approach, this course covers the elementary work regularly included in the first two years of high-school Latin. The material also provides an introduction to Roman life and culture. This course is especially recommended for English majors.

LAT. 231-232. *Intermediate Latin*, 3 credits each semester.

An introduction to Latin literature. The further study of Latin grammar and the elements of Latin prosody are also presented. *Prerequisite: One year of college Latin or equivalent.*

LAT. 300. *The Dynamics of Power in the Roman Empire*, 3 credits.

An examination and appraisal of the social, economic, political, and administrative organization of the Roman Empire, this course presents a case-study of the interplay of power-vectors in a given psychological environment. The orientation is toward the area of the social sciences. This course cannot be counted toward certification in Latin, but it may be counted as part of the departmental requirements for a Latin major. *Prerequisite: None.* Open to all students.

LAT. 307. *Roman Comedy*, 3 credits.

One play by Plautus; two by Terence. *Prerequisite: Second year of college Latin or equivalent.*

LAT. 308. *Roman Satire*, 3 credits.

Selected poetry of Horace, Persius, and Juvenal. *Prerequisite: Second year of college Latin or equivalent.*

LAT. 318. *Roman Life in the Early Empire*, 3 credits.

Selections from Petronius, Martial, Pliny, and Suetonius. *Prerequisite: Second year of college Latin or equivalent.*

LAT. 319. *Roman Thinkers*, 3 credits.

Selections from the philosophical works of Cicero, Seneca, and later writers. *Prerequisite: Second year of college Latin or equivalent.*

LAT. 325. *Roman Historians*, 3 credits.

Excerpts from Livy; major attention to Tacitus. *Prerequisite: Second year of college Latin or equivalent.*

LAT. 328. *Roman Epic Poetry*, 3 credits.

Excerpts from Ennius, Lucretius, and Vergil. *Prerequisite: Second year of college Latin or equivalent.*

LAT. 358. *Classical Civilization*, 3 credits.

This course is a survey of the elements of Greek and Roman civilization. It is designed to show the classical heritage of our Western World in the fields of language, religion, philosophy, art, literature, and government. This course cannot count toward certification in Latin, but may be counted as part of the departmental requirement for a Latin major. *Prerequisite: None.* Open to all students.

LAT. 405. *Roman Letter-Writers*, 3 credits.

The personal correspondence of Cicero and of Pliny the Younger. *Prerequisite: Second year of college Latin or equivalent.*

LAT. 410. *Advanced Syntax and Composition*, 3 credits.

A review of the principles of syntax and a study of the refinements of Latin grammar. Exercises in prose composition. This course is especially recommended for students planning to teach Latin. *Prerequisite: Second year of college Latin or equivalent.*

LAT. 415. *Roman Lyric and Elegiac Poetry*, 3 credits.

Selections from Catullus, Propertius, Tibullus, Horace, and Ovid. *Prerequisite: Second year of college Latin or equivalent.*

## Russian

Rus. 101-102. *Elementary Russian* (4, 1), 4 credits each semester.

A study of the fundamentals of the Russian language. Oral practice, hearing and reading comprehension, the grammar necessary for simple spoken and written expression. Extensive practice in pronunciation will be done in the language laboratory in two half-hour sessions a week.

Rus. 231-232. *Intermediate Russian*, 3 credits each semester.

A thorough review of grammar. Vocabulary building, conversation, composition and reading. *Prerequisite: One year of college Russian or equivalent.*

Rus. 300. *Russian Conversation and Composition*, 3 credits.

Intensive training in the use and comprehension of modern everyday Russian with emphasis on conversation, reading, dictation and composition to give the student confidence and fluency in expressing himself in idiomatic Russian. *Prerequisite: Rus. 232 or equivalent.*

Rus. 308. *Introduction to Russian Civilization*, 3 credits.

Reading and discussion of writings on various aspects of Russian civilization. Instruction is in Russian. *Prerequisite: Rus. 232 or equivalent.*

Rus. 315. *Russian Phonetics*, 3 credits.

Intensive drill on Russian sounds and intonation patterns. Continued emphasis upon conversation. Instruction is in Russian. *Prerequisite: Rus. 232 or equivalent.*

Rus. 320. *Advanced Russian Grammar*, 3 credits.

Advanced course in grammar and syntax with extensive practice in composition. Instruction is in Russian. *Prerequisite: Rus. 300 or equivalent.*

Rus. 365-366. *Russian Literature in Translation*, 3 credits each semester.

This survey course will treat Russian literature up to 1880 during the first semester and from 1880 to the present during the second semester. A knowledge of Russian is not required. All lectures and readings are in English. Either semester may be taken to fulfill basic studies requirements in literature (3 credits), but the course does not count toward certification in Russian. *Prerequisite: None.* Open to all students.

Rus. 405. *Russian Literature of Nineteenth Century*, 3 credits.

Reading and analysis of poetry, prose, and drama by such writers as Pushkin, Lermontov, Gogol, Turgenev, Tolstoy, Dostoevsky, and Chekhov. Instruction is in Russian. *Prerequisite: Rus. 300.*



RUS. 426. *Russian Literature of the Twentieth Century*, 3 credits.

Reading and analysis of poetry, prose, and drama by writers from the Symbolists up to the present. Instruction is in Russian. *Prerequisite: Rus. 300.*

## SEE RUSSIAN STUDIES PROGRAM IN THE SCHOOL OF ARTS AND SCIENCES

### Spanish

SPAN. 101-102. *Elementary Spanish* (4, 1), 4 credits each semester.

This course is a study of the fundamentals of Spanish language through conversation, reading and composition. Extensive practice in pronunciation, dictation, and development of aural comprehension through two half-hour sessions in the language laboratory.

SPAN. 231-232. *Intermediate Spanish*, 3 credits each semester.

This course develops fundamental skills through grammar review, extensive reading, conversation and composition. *Prerequisite: One year of college Spanish or equivalent.*

SPAN. 300. *Spanish Conversation and Composition*, 3 credits.

This course is designed to give students confidence and fluency in the use of the language. Original compositions and parallel reading will be discussed entirely in Spanish. Extemporaneous dialogues and skits will be used as the basis for conversation. *Prerequisite: Span. 232 or equivalent.*

SPAN. 307. *Spanish Civilization*, 3 credits.

A study of the geographical, historical and cultural development of Spain from medieval times to the present. Instruction is in Spanish. *Prerequisite: Span. 232 or equivalent.*

SPAN. 308. *Latin American Civilization*, 3 credits.

A study of the geographical, historical, and cultural development of Latin America from medieval times to the present. Instruction is in Spanish. *Prerequisite: Span. 232 or equivalent.*

SPAN. 310. *Survey of Spanish Literature*, 3 credits.

A study of Spanish literature from the Middle Ages to the present. Lectures, readings, recitations, discussions and individual reports. Instruction is in Spanish. *Prerequisite: Span. 300.*

SPAN. 315. *Spanish Phonetics*, 3 credits.

Intensive drill in Spanish sounds with practice in intonation and pronunciation in the reading of poetry and prose. *Prerequisite: Span. 232 or equivalent.*

SPAN. 320. *Advanced Spanish Grammar*, 3 credits.

The grammatical structure of Spanish with special emphasis on syntax and stylistics. Practice in composition based on the Spanish of standard contemporary authors and practical usage. *Prerequisite: Span. 300 or equivalent.*

SPAN. 327-328. *Survey of Spanish American Literature*, 3 credits.

The first semester gives an overall view of the outstanding literary figures from pre-Columbian times to the present with emphasis on the essay, poetry, short story, and early novels. The second semester is a comprehensive study of recent Latin American plays and novels. Either or both semesters may be taken for credit. This course is conducted in Spanish. *Prerequisite: Span. 300.*

SPAN. 405. *Spanish Novel of the Nineteenth and Twentieth Centuries*, 3 credits.

The development of the Spanish novel from the "costumbristas" in the 19th century through the realism of Galdos and from the writers of the Generation of 1898 to the present. *Prerequisite: Three years of college Spanish or equivalent.*

SPAN. 406. *Spanish Drama of the Nineteenth and Twentieth Centuries*, 3 credits.

Readings and discussion of representative works of Spanish drama from the Neo-Classic and Romantic periods to the present day. *Prerequisite: Three years of college Spanish or equivalent.*

SPAN. 415. *The Spanish-American Novel*, 3 credits.

Reading and analysis of representative works of Spanish-American novelists of the Nineteenth and Twentieth Centuries. *Prerequisite: Three years of college Spanish or equivalent.*

SPAN. 425. *Prose of the Golden Age*, 3 credits.

This course is a study of the chivalric, sentimental, pastoral and picaresque genres of prose literature and of their development through the Golden Age, culminating in Cervantes. The course is conducted in Spanish. *Prerequisite: Three years of college Spanish or equivalent.*

SPAN. 426. *Drama of the Golden Age*, 3 credits.

This course is a study of the "comedia" of the Golden Age including works of Lope de Vega, Calderon de la Barca, Tirso de Molina and Ruiz de Alarcon. The course is conducted in Spanish. *Prerequisite: Three years of college Spanish or equivalent.*

SPAN. 450. *Stylistics and Advanced Composition*, 3 credits.

A study of various styles through analysis of broadly representative writings. Development and acquisition of correct idiomatic style in written Spanish. *Prerequisite: Span. 320 or equivalent.* Instruction is in Spanish.

# DEPARTMENT

## of Geology

MR. WILBUR T. HARNSBERGER, *Head of the Department*

*Professor* SHERWOOD

*Associate Professors* FARMER and HARNSBERGER

*Assistant Professors* CAMPBELL and ROBERTS

The Department of Geology offers programs of study which lead to careers in teaching earth science in the secondary schools, to careers as geologists in industry and in government and to further study in graduate school. A program of thorough preparation in theoretical and applied geology is designed to offer the geology major maximum flexibility in selecting undergraduate courses. The Department of Geology also provides courses to meet the basic studies requirements in the natural sciences as well as electives for all students.

The minimum requirement for an undergraduate major in geology is thirty-two (32) semester hours of geology courses selected by the student and his departmental advisor. In addition, the major is required to complete sixteen (16) semester hours in related sciences (biology, chemistry and physics) approved by his advisor. Mathematics 105 (Finite Mathematics) and either Mathematics 106 (Finite Mathematics) or Mathematics 220 (Elementary Statistics) are required. Mathematics through calculus, mathematical statistics and computer science and two years of German, French or Russian are strongly recommended for majors who contemplate graduate study in geology or related environmental sciences.

Requirement for a minor in geology is a minimum of eighteen (18) semester hours of geology approved by the student's advisor.

Earth science teacher certification in secondary education requires twenty-four (24) semester hours of courses in the earth sciences. Two of the courses must be taken from among Geology 300 (Introduction to Oceanography), Geology 385 (Surface Processes and Landforms) or Geography 210 (Physical Geography), Physics 220 (Astronomy), and Geography 415 (Climatology). Other courses in geology constituting the minor, eighteen (18) semester hours, completes the subject matter requirement for certification. In the professional education area

students should take the following courses: Psychology 233-234 (Human Growth and Development), Education 360 (Foundations of Curriculum), Secondary Education 376 (Methods and Materials for Teaching in the Secondary School—Science), Education 470 (History and Philosophy of Educational Thought), Education 480 (Directed Teaching), and Science 490G (Seminar for Science Teachers). It is also necessary to complete Health 200 (Elements of Health Education) and History 233 or 234 (United States History).

Students majoring in other fields may earn certification in earth science by completing the preceding requirements. For students planning to teach in secondary schools dual certification may be desirable.

Students interested in a program offered by the Department of Geology should consult the Head of the Department, 207A Burruss Hall.

**The B.S., degree with a major in Geology requires a minimum of 128 credits distributed as follows:**

- 41 semester hours in Basic Studies (see Basic Studies section in catalog — pgs. 69-70)
- 3 semester hours in Mathematics (degree requirement)
- 32 semester hours in Geology (selected with approval of advisor)
- 16 semester hours supporting sciences (from Biology, Chemistry or Physics)
- 36 semester hours electives

**The B.A., degree with a major in Geology requires a minimum of 128 credits distributed as follows:**

- 41 semester hours in Basic Studies (see Basic Studies section in catalog — pgs. 69-70)
- 3 semester hours in Mathematics (Department requirement)
- 32 semester hours in Geology (selected with approval of advisor)
- 16 semester hours supporting sciences (from Biology, Chemistry or Physics)
- 6-14 semester hours in a Foreign Language
- 3 semester hours in Philosophy
- 19-27 semester hours electives

**The B.S., or B.A., degree with a major in Geology qualifying for the Secondary Collegiate Professional Certificate in Earth Science requires a minimum of 128 credits distributed as follows:**

- 41 semester hours in Basic Studies (see Basic Studies section in catalog — pgs. 69-70)
- 3 semester hours in Mathematics (degree or Department requirement)
- 32 semester hours in Geology to include Geology 300, Geology 385 (selected with approval of advisor)
- 16 semester hours supporting sciences (from Biology, Chemistry or Physics)

- 6-14 semester hours in a Foreign Language (B.A., degree requirement only)
- 3 semester hours in Philosophy (B.A. degree requirement only)
- 21 semester hours in the professional education area
- 2 semester hours in Health
- 3 semester hours in U.S. History
- 0-10 semester hours electives

## Description of Courses

GEOL. 100. *The Earth and Man* (3, 2), 4 credits.

A broad study of the earth will be interwoven with man's activities as a geologic agent. Specific topics will include the structure of the earth, mineral resources, oceans, rivers, earthquakes and volcanoes. The long-term implications of man's interaction with the earth will be explored. (This course is recommended for non-science majors as partial fulfillment of the basic studies requirement in natural science.)

GEOL. 120. *Physical Geology* (3, 2), 4 credits.

An introduction to earth processes and resources through a study of the physical agents affecting them. Topics include rocks, minerals and landforms. New developments in sea-floor spreading, continental drift, astrogeology, earthquake prediction and environmental applications will be considered. Basic studies. (Recommended for all students in a science curriculum.)

GEOL. 130. *Evolution of the Earth* (3, 2), 4 credits.

An introduction to the history of the earth from its origin to the present. Physical events and the evolution of life are emphasized through a study of fossils. (This course may be used by any student to fulfill a portion of the science requirement in basic studies or as an elective.)

GEOL. 235. *Earth Materials—Minerals* (2, 4), 4 credits.

An introduction to the common minerals of the earth's crust. The origin, classification, and distribution of common minerals are discussed, with emphasis on hand specimen identification. *Prerequisite: Four credits in Geol.*

GEOL. 236. *Earth Materials—Rocks* (2, 4), 4 credits.

An introduction to the common rocks of the earth's crust. The origin, classification, and distribution of common rock types are discussed, with emphasis on hand specimen identification. *Prerequisite: Geol. 235.*

GEOL. 300. *Introduction to Oceanography*, 3 credits.

A general survey of oceanography intended for students desiring an introductory background in marine science. Study will include the characteristics of seawater and the environmental processes in oceans and estuaries. The geology of the ocean basins and the sea as a source of food and minerals and the ultimate recipient of global pollution will also be discussed. (This course may be used by any student as an elective.)

GEOL. 310. *Gem Minerals* (1, 2), 2 credits.

The occurrence and mineralogy of gem minerals and rocks suitable for lapidary. Emphasis is placed on the physical properties of minerals and rocks with reference to lapidary technique. Special attention is given to gem minerals and rocks of the State of Virginia. (May not be used to satisfy undergraduate geology requirements.) *Prerequisite: Permission of the instructor.*

GEOL. 330. *Environmental Geology and the Limitations of the Earth*, 2 credits.

Man's physical environment and the limitations of a finite earth are emphasized. A general treatment of the various environmental parameters important to man is followed by consideration of more specific topics. Included are catastrophic geological events and the limitations and implications of mineral production and use. (May not be used to satisfy undergraduate geology requirements.) (Open as an elective to all Madison students.)

GEOL. 349. *Earth's Economic Resources* (2, 2), 3 credits.

Classification, origin, distribution and mining of mineral resources. Special emphasis on the uses of important nonmetallic and metallic mineral resources. Modern methods of exploration in discovering ore bodies are described. *Prerequisite: Geol. 120 or equivalent.*

GEOL. 355. *Introduction to Geochemistry* (2, 2), 3 credits.

A course designed to acquaint the advanced undergraduate student with the chemical theory and reactions which are fundamental to many of the processes at work on and near the surface of the earth. *Prerequisites: Chem. 101-102 or permission of the instructor.*

GEOL. 365. *Structural Geology* (2, 2), 3 credits.

Major structures of the earth's crust. The causes and results of mountain building processes. Interpretation of geologic maps. *Prerequisite: Geol. 235.*

GEOL. 385. *Surface Processes and Landforms* (2, 2), 3 credits.

The description, classification, analysis, origin, and evolution of land forms. The physical and chemical processes that have formed the present landscape. Advanced interpretation of topographic maps. (This course was offered formerly as Geology 285.) *Prerequisite: Four credits in Geol.*

GEOL. 399. *Field Geology*, 3 credits.

A two-week concentrated field trip to selected areas in the Appalachians, Coastal Plain and craton to begin after the end of the spring semester. To be lead by members of the Geology faculty. Trip report required. *Prerequisite: Permission of the instructor.*

GEOL. 450. *Geology Seminar*, 1 credit.

An in-depth study of a particular problem in geology, e.g., plate tectonics, astrogeology, low-temperature geochemistry, etc. Scientific literature will be reviewed and discussed. *Prerequisite: Permission of the instructor.*

GEOL. 478. *Stratigraphy* (2, 2), 3 credits.

The principles of stratigraphy and sedimentation. Sedimentary rock classification, physical and biostratigraphic methods of correlation, and regional distribution of sedimentary rock types and ages are considered. (This course was offered formerly as Geology 278.) *Prerequisite: Geol. 130.*

GEOL. 485. *Sedimentation* (2, 3), 3 credits.

Principles of sedimentation, analysis and interpretation of sedimentary processes and environments. Laboratory experiments in the properties of sedimentary particles. *Prerequisite: Geol. 236 or permission of the instructor.*

GEOL. 497-498. *Problems in Geology*, 1-3 credits each semester.

An undergraduate research course in one of the fields of geology. (Open, with permission of a departmental instructor, to advanced students who have adequate preparation.)

GEOL. 499. *Honors*, 6 credits. Year Course.

GEOL. 501. *Workshop in Geology* (Summer only), 2 credits.

An investigation of laboratory techniques in rock and mineral identification, geologic and topographic map reading and field investigations of crustal structures. (May not be used to satisfy undergraduate geology requirements.)

GEOL. 535. *Paleobiology* (1, 4), 3 credits.

Principles of study and systematics of the organisms preserved in the geologic record. Protista through vertebrates. (Open to biology majors and graduate students.) *Prerequisite: One year of biology or geology.*

GEOL. 540. *Paleoecology*, 2 credits.

An introduction to the evolution of the earth's past environments. Methods of study and interpretation of ancient environments. Biological and geological approaches to paleoecology. *Prerequisite: Geol. 535 or permission of the instructor.*

# DEPARTMENT of History

DR. RAYMOND C. DINGLEDINE, JR., *Head of the Department*

*Professors* DINGLEDINE, MCFARLAND, and WOOD

*Associate Professors* BLAND, GEROME, HENDERSON, MARSHALL, C. SMITH,  
and YOON

*Assistant Professors* C. BOYD, D. BOYD, CONGDON, C. HALLMAN, LEM-  
BRIGHT, LOE, RILEY, and SEXTON

The Department of History offers a program designed for students whose primary academic interest is in history as a humanity or a social science. The program provides a broad background for careers in business and government as well as thorough preparation for teaching and the liberal professions.

The Department offers both a major and a minor in History. The major is available only to those students meeting the requirements for the Bachelor of Arts degree: three (3) semester hours of Philosophy and completion of the second year of a Foreign Language.

The minimum requirement for a major in History is thirty-two (32) semester hours of history, including History 233-234 (United States History) and History 255-256 (History of Civilization), or their equivalent, and History 495 (History Seminar). At least nine (9) of the remaining eighteen (18) hours in history must be in courses at the 400 or 500 level.

The minimum requirement for a minor in History is twenty-four (24) semester hours of history, including History 233-234 (United States History) and History 255-256 (History of Civilization), or their equivalent. The remaining twelve (12) credits may be obtained from elective hours in history.

Six (6) hours of History of Civilization, History 255 (History of Civilization to 1650) and History 256 (History of Civilization since 1650), are a Basic Studies requirement for all students (See pgs. 69-70).

Students seeking teacher certification in secondary education should take the following courses: Economics 220 (Survey of Eco-



nomics) or Economics 230 (Principles of Economics), Health 200 (Elements of Health Education), Psychology 233-234 (Human Growth and Development), Education 360 (Foundations of Curriculum), Secondary Education 375 (Methods and Materials in Teaching in the Secondary School—Social Studies), Education 470 (History and Philosophy of Educational Thought), and Education 480 (Directed Teaching).

The Virginia teacher certification requirement of a course in American History may be met by either History 233 (United States History to 1877); or History 234 (United States History since 1877).

Students interested in a program in the Department of History should consult Dr. Raymond C. Dingleline, 201 Jackson Hall.

### Description of Courses

HIST. 233. *United States to 1877*, 3 credits.

A survey of United States history from 1776 through Reconstruction. Interpretation and analysis are stressed.

HIST. 234. *United States since 1877*, 3 credits.

A survey of United States history from Reconstruction to the present. Interpretation and analysis are stressed.

HIST. 255. *History of Civilization to 1650*, 3 credits.

A survey of important historical developments from prehistoric times to the mid-seventeenth century. Emphasis is given to the rise and decline of great civilizations and to their lasting contributions to mankind.

HIST. 256. *History of Civilization since 1650*, 3 credits.

A survey of important historical developments from the mid-seventeenth century to the present. Emphasis is given to the growth of nationalism, the development of colonialism, and to the events, problems, and conflicts of the present century.

HIST. 348. *Colonial America*, 3 credits.

An interpretive survey of England's mainland colonies from 1558 to 1775.

HIST. 350. *Virginia*, 3 credits.

An interpretive survey of the history of Virginia from its colonial beginnings to the present time.

HIST. 353. *Trans-Mississippi West*, 3 credits.

A study of the United States west of the Mississippi from the early Spanish exploration and settlement through the progressive waves of explorers, trappers, miners, soldiers, and farmers as they encountered the western environment, the Indians, and one another.

HIST. 355. *Afro-American History to 1877*, 3 credits.

A survey of the role of the Negro in the United States from its colonial beginnings through Reconstruction, with attention to the West African background, the slave trade, the Negro in the ante-bellum South and North, and postwar adjustments and developments.

HIST. 356. *Afro-American History since 1877*, 3 credits.

A survey of the role of the Negro in the United States from Reconstruction to the present, with attention to the institution of segregation, the Northern migration, the Negro in America's wars, the Civil Rights Movement, black leadership, and the racial situation today.

HIST. 363. *Africa*, 3 credits.

Emphasis is placed on the social and cultural aspects as well as the emerging role the continent plays in contemporary world history.

HIST. 367. *Latin America*, 3 credits.

A survey of the history of Latin America examining the Pre-Columbian Indian civilizations, the Spanish and Portuguese conquest, the colonial era and its impact, the wars of independence, and selected case studies of the early national period.

HIST. 368. *Contemporary Latin America*, 3 credits.

A study of the political, economic, social, and cultural history of Latin America during the twentieth century. Special attention is given to selected countries which have played a leading role in Latin-American affairs.

HIST. 370. *Modern Middle East*, 3 credits.

A survey of the political evolution of the modern Middle East. Emphasis is placed on the impact of Western imperialism and on the problems of Arab nationalism. Special attention is given to the origins of the Arab-Israeli conflict and to the involvement of the Soviet Union and the United States in the Middle East today.

HIST. 371. *India*, 3 credits.

A general introduction to the history of India from the earliest times to the attainment of national independence following World War II. Particular attention is given to traditional Indian Civilization, its impact on India's Asian neighbors, and its response to the intrusion of Western power, with major emphasis on the rise of British power in India and the subsequent struggle for Indian national independence.

HIST. 373. *East Asia*, 3 credits.

A survey of East Asian history from the beginning to about 1850, with emphasis on the political and cultural developments of China, Korea, Japan, and the mainland Southeast Asia.

HIST. 383. *Early England*, 3 credits.

A survey of English history from the earliest times to the late seventeenth century. Particular attention is given to the rise of Parliament and the growth of limited monarchy.

HIST. 384. *England and the Empire-Commonwealth*, 3 credits.

A survey of English history from the late seventeenth century to the present. Particular attention is given to the growth of British democracy, the industrial revolution, and the rise and fall of the British Empire.

HIST. 385. *Russia to 1855*, 3 credits.

A survey of Russian history from the origins of the Russian state down through the reign of Nicholas I. Attention is given to such topics as the Kievan state, the Muscovite state, the rise of Imperial Russia, and the emergence of Russia as a Western European power.

HIST. 386. *Russia since 1855*, 3 credits.

A survey of Russian history from the reign of Alexander II to the present. Attention is given to such topics as the decline of Imperial Russia, the rise of the revolutionary movement, and the emergence and consolidation of the Soviet state.

HIST. 387. *Germany to 1815*, 3 credits.

A survey of the history of the Germanic-speaking lands of Central Europe from the time of Charlemagne to the end of the French Revolution. Emphasis is given to political, social, economic, and cultural developments in all the German states, with special attention being given to Austria and Prussia.

HIST. 388. *Germany since 1815*, 3 credits.

A survey of the history of Germany during the struggle for unification, the Empire, World War I, Weimar Germany, the Nazi years, and the Post-War II developments. Emphasis is given to political, economic, military, social, and cultural developments, with special attention to Prussia as it develops into the German state.

HIST. 389. *France to 1789*, 3 credits.

A survey of French History from the Capetians to the end of the Old Regime, 987-1789. Particular attention is given to France's medieval heritage, the impact of the Renaissance, the Protestant revolt, the policies of Richelieu, Colbert, and Louis XIV, and the political and intellectual background of the French Revolution.

HIST. 390. *France since 1789*, 3 credits.

A study of the social and political events which determined the course of French History from the Revolution through the Fifth Republic. Particular attention is given to the social, economic, and cultural currents which have contributed to the making of contemporary France.

HIST. 425. *Civil War and Reconstruction*, 3 credits.

A study of the background, development, personalities, and aftermath of the Civil War. Special attention is given to the coming of the War and different explanations of its causes, and to the policies and significance of Reconstruction, with varying interpretations thereof.

HIST. 430. *The United States and the Contemporary World*, 3 credits.

A study of the changes in United States diplomacy from 1941 to the present. Primary emphasis is on the development of the Cold War, the relations with newly independent nations, and the attempts to maintain security in an uncertain world.

HIST. 439. *Selected Topics in American History*, 3 credits.

Selected topics are studied in depth. This course may be repeated. See *Schedule of Classes* for current topic.

HIST. 450. *Modern China*, 3 credits.

China since 1840, with particular attention given to China's response to the West, the disintegration of Imperial China, the development of Chinese nationalism, the origin and nature of Chinese Communism, and China under Mao.

HIST. 460. *Modern Japan*, 3 credits.

An examination of the development of Japanese history from around the time when Commodore Perry forced the gates of feudal Japan in 1854 to the present. Special consideration is given to the collapse of isolation, the end of the Shogunate, the creation of a modern state, the years of party government, the rise of militarism, the Pacific War, the Occupation, and the New Japan.

HIST. 476. *Ancient History*, 3 credits.

A survey of the rise and fall of ancient civilizations with concentration on the contributions of Greece and Rome to the Western Civilization.

HIST. 477. *Medieval Europe*, 3 credits.

Attention is focused on Europe in the Middle Ages, with a concentration on social and intellectual aspects and on the development of parliamentary institutions.

HIST. 478. *Renaissance and Reformation*, 3 credits.

Attention is focused on cultural, intellectual, political, and social outgrowth of High Medieval civilization as an introduction to the history of Modern Europe. Special consideration is given to the Italian Renaissance of the fine arts, to the fragmentation of Western Christendom, to the intellectual impact of Luther and Calvin on Western thought, and to the political and social structure of Tudor despotism in England.

HIST. 483. *The Old Regime and the French Revolution, 1648-1815*, 3 credits.

A study of the unfolding of European civilization from the Baroque through the Napoleonic era. Particular attention is given to an analysis of the Old Regime society and its institutions, the causes of popular revolts, the Enlightenment, the beginnings of industrialism and urbanism, and the impact of the French Revolution upon Europe.

HIST. 485. *Nineteenth Century European Civilization, 1815-1914*, 3 credits.

An interpretive study of European history from the Congress of Vienna to the outbreak of the First World War. Particular attention is given to the intellectual climate of the period, with emphasis on liberalism, nationalism, socialism, and nihilism.

HIST. 486. *Europe since 1914*, 3 credits.

An interpretive study of European history from the First World War to the Cold War, with special emphasis on the revolutions of 1917-19, the rise of totalitarianism, the origins of the Second World War, and the continuing crisis of values.

HIST. 489. *Selected Topics in World History*, 3 credits.

Selected topics are studied in depth. This course may be repeated. See *Schedule of Classes for current topic*.

HIST. 490. *Special Studies in History*, 3 credits each semester.

Designed to give capable students in History an opportunity to do independent study under faculty supervision. (Offered only with consent of the Head of the Department.)

HIST. 491. *Travel Studies Seminar*, 3 credits.

Designed to encourage the student to augment his regular academic program through independent investigation including organized travel-study. Consent of the Head of the Department necessary; prearrangements must be made with a designated faculty member who will direct the study with preparatory instructions and final requirements.

HIST. 495. *History Seminar*, 2 credits.

A course for senior history majors in research methodology and the nature and philosophy of history, with emphasis on American historiography and problems of interpretation. *Required of History Majors*.

HIST. 499. *Honors*, 6 credits. Year Course.

HIST. 520. *United States History, 1763-1800*, 3 credits.

An interpretive study of the political, economic, social, and cultural history of the United States from the French and Indian War through the Federalist period. *Prerequisite: Hist. 233 or equivalent*.

HIST. 525. *United States History, 1800-1850*, 3 credits.

An interpretive study of the political, economic, social, and cultural history of the United States from the election of Jefferson to the Compromise of 1850. *Prerequisite: Hist. 233 or equivalent.*

HIST. 530. *United States History, 1877-1919*, 3 credits.

An interpretive study of United States History from Reconstruction through World War I. Special attention is given to the nation's emergence as an industrial and urban society and as a world power, and to third party and reform movements of the late nineteenth and early twentieth centuries. *Prerequisite: Hist. 234 or equivalent.*

HIST. 531. *Recent United States History*, 3 credits.

An interpretive study of the United States since World War I, emphasizing the changing roles of the national government in domestic affairs and of the United States in its world relations. *Prerequisite: Hist. 234 or equivalent.*

HIST. 545. *Latin America and the United States*, 3 credits.

An examination of the diplomatic relations between Latin America and the United States from the era of the Latin-American revolutions for independence to the present. Emphasis is placed on the Monroe Doctrine and its extensions, and the development of the Pan-American system. *Prerequisites: Hist. 233-234 or equivalent.*

HIST. 546. *Mexico, Central America, and the Caribbean*, 3 credits.

A regional study of the history of Central America and Caribbean nations with special emphasis given to Mexico from the Revolution of 1910 to the present. *Prerequisite: Hist. 234 or equivalent.*

HIST. 547. *South America*, 3 credits.

Historic development of the continent with special attention to selected nations since the early national period of the nineteenth century.

HIST. 559. *Modern France*, 3 credits.

Topical studies in French history from the fall of Napoleon I to the present. The July monarchy, the second empire, the revolutions of 1830, 1848, 1870, 1945 and 1958, and the four republics are given special emphasis. The roles of the Franco-Prussian war, the two world wars of the twentieth century and colonialism in French history are also stressed. *Prerequisite: Hist. 256 or equivalent.*

HIST. 562. *Modern Germany, 1918-Present*, 3 credits.

An advanced lecture, reading, discussion course on 20th century Germany. Readings and discussion center around the aftermath of World War I, Weimar Germany, the rise of Nazi Germany, the Third Reich, World War II, and the founding of West and East Germany in the postwar period. *Prerequisite: Hist. 256 or equivalent.*

HIST. 565. *Twentieth Century Britain*, 3 credits.

An examination of the major themes of British history in the twentieth century. The course includes material on political, social, economic, diplomatic, and imperial topics from the pre-World War I decade down through the post-World War II decade. *Prerequisite: Hist. 256 or equivalent.*

HIST. 575. *Soviet Russia*, 3 credits.

Modernization of Russia and the Soviet Union from the 1917 Revolution to the present with an emphasis on significant political, economic, social, and cultural developments. A study in comparative history; the Soviet experience examined in the context of 20th century global achievements. *Prerequisite: Hist. 256 or equivalent.*

HIST. 580. *West Africa*, 3 credits.

An introduction to the part of Africa from which the blacks of America trace their ancestry. The area covered includes the basins of Lake Chad and the Senegal, Niger, Gambia, Volta, Sanaga, Ogooue, Congo, and Cuanza rivers. The whole sweep of history from neolithic times through the independence movements of the fifth and sixth decades of the twentieth century is examined. This course is designed especially for those teaching Black History or Black Studies in secondary schools. *Prerequisites: Hist. 255-256 or equivalent or permission of Head of Department.*

HIST. 585. *Southeast Asia*, 3 credits.

A history of mainland Southeast Asia from Burma to Vietnam, Indonesia, and the Philippines, with emphasis on the influence of Indian and Chinese civilizations, the impact of European colonial rule, the rise of nationalism, the gaining of independence, and the postwar political developments. *Prerequisites: Hist. 255-256 or equivalent.*

# DEPARTMENT

## of Mathematics

DR. WILLIAM M. SANDERS, *Head of the Department*

*Professors* FISHER, HANSON, and SANDERS

*Associate Professors* J. BOWE, MARRAH, McLEAN, and MULLENEX

*Assistant Professors* AUSTIN, A. BOWE, KEMPTON, LAZORACK, LENKERD,  
LEPERA, LYONS, SMITH, SPRESSER, TAYLOR, and ZIEGENFUS

*Lecturer* BARLOW

The Mathematics Department offers programs of study which lead to careers in teaching mathematics in the secondary schools and in junior colleges, to careers as mathematicians in industry and in government, and to further study in graduate school. The Department also recognizes its responsibility in providing courses for the nonmathematician who needs to make effective use of mathematics in his chosen career.

The minimum requirement for a major in mathematics is thirty (30) semester hours in mathematics courses numbered above 220. The following courses are required of all majors: Mathematics 235-236 (Analytical Geometry and Calculus) and Mathematics 360 (Linear Algebra). Candidates for the Collegiate Professional Teaching Certificate must also include Mathematics 361 (Algebraic Structures), Mathematics 376 (Probability), and Mathematics 475 (Fundamental Concepts of Geometry) or Mathematics 520 (Foundations of Euclidean Geometry). All others must include Mathematics 237 (Analytic Geometry and Calculus III), Mathematics 510 (Advanced Calculus I), and Mathematics 530 (Abstract Algebra).

The minimum requirement for a major using the option in computational mathematics and computer science includes all the general requirements for a major augmented with selected courses having a strong computer component.

The minimum requirement for a minor in mathematics is twenty-four (24) semester hours including Mathematics 235-236 (Analytic Geometry and Calculus). No more than six (6) semester hours from



the selections in the department numbered below 200 may be used toward the minor. Each student minoring in mathematics must obtain prior approval of mathematics courses to be counted in the minor from the Head of the Department or his designate.

Students seeking teacher certification in secondary education should take the following courses: Health 200 (Elements of Health Education), History 233 or 234 (United States History), Psychology 233-234 (Human Growth and Development), Education 360 (Foundations of Curriculum), Secondary Education 370 (Methods and Materials in Teaching in the Secondary School), Education 470 (History and Philosophy of Educational Thought), and Education 480 (Directed Teaching).

Students interested in the program offered by the Department of Mathematics should consult Dr. W. M. Sanders, 106 Burruss Hall.

#### Four-Year Program (B.S. Degree) for a Major in Mathematics (128 Credits)

##### FRESHMAN YEAR

	<i>Credits per Semester:</i>	
	<i>1st</i>	<i>2nd</i>
Eng. 101-102. Reading and Composition .....	3	3
Math. 135, 235. Elementary Functions; Analytic Geometry and Calculus or Math. 235-236. Analytic Geometry and Calculus .....	3-5	5
Basic Studies Art 200 or Mus. 200 .....	0	3
Basic Studies Natural Science .....	4	0
Basic Studies Physical Education .....	1-0	1
Electives .....	5	5
	16-17	17

##### SOPHOMORE YEAR

Comm. 200. Oral Communication .....	0	3
Hist. 255-256. History of Civilization .....	3	3
Math. 360, 361. Linear Algebra; Algebraic Structures .....	3	3
Basic Studies Literature .....	3	0
Basic Studies Natural Science .....	4	0
B.S. Degree Requirement (Natural Science or Social Science) ...	0	4-3
Basic Studies Physical Education .....	1	0-1
Electives .....	2	3-4
	16	16-17

JUNIOR YEAR

Mathematics Electives .....	6	6
Basic Studies Social Science .....	3	3
Electives .....	7	7
	<hr/>	<hr/>
	16	16

SENIOR YEAR

Mathematics Electives .....	3	3
Electives .....	13	13
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	16	16

Option: Computational Mathematics and Computer Science

JUNIOR YEAR

	<i>Credits per Semester:</i>	
	<i>1st</i>	<i>2nd</i>
Math. 338, 389. Mathematical Iteration; Linear Computational Mathematics .....	3	3
Mathematics Electives .....	3	3
Basic Studies Social Science .....	3	3
Electives .....	7	7
	<hr/>	<hr/>
	16	16

SENIOR YEAR

Mathematics Electives .....	3	3
Electives .....	13	13
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	16	16

Four-Year Program (B.A. Degree) for a Major in Mathematics  
(128 Credits)

FRESHMAN YEAR

	<i>Credits per Semester:</i>	
	<i>1st</i>	<i>2nd</i>
Eng. 101-102. Reading and Composition .....	3	3
Foreign Language .....	3-4	3-4
Math. 135, 235. Elementary Functions; Analytic Geometry and Calculus or Math. 235-236. Analytic Geometry and Calculus .....	3-5	5
Electives .....	7-5	5
	<hr/>	<hr/>
	16-17	16-17

SOPHOMORE YEAR

Foreign Language (if needed) or electives .....	3	3
Hist. 255-256. History of Civilization .....	3	3
Math. 360, 361. Linear Algebra; Algebraic Structures .....	3	3
Basic Studies Art 200 or Mus. 200 .....	0	3
Basic Studies Literature .....	3	0
Basic Studies Natural Science .....	4	4
Basic Studies Physical Education .....	1	1
	17	17

JUNIOR YEAR

Comm. 200. Oral Communication .....	3	0
Mathematics Electives .....	6	6
Phil. 240. Introduction to Philosophy .....	0	3
Basic Studies Physical Education .....	1	0
Basic Studies Social Science .....	3	3
Electives .....	3	4
	16	16

SENIOR YEAR

Mathematics Electives .....	6	6
Electives .....	10	10
	16	16

**Four-Year Program (B.S. Degree) for a Major in Mathematics  
Qualifying for the Secondary Collegiate Professional  
Certificate (128 Credits)**

FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Comm. 200. Oral Communication .....	0	3	
Eng. 101-102. Reading and Composition .....	3	3	
Hist. 255-256. History of Civilization .....	3	3	
Math. 135, 235. Elementary Functions; Analytic Geometry and Calculus or Math. 235-236. Analytic Geometry and Calculus .....	3-5		5
Basic Studies Art 200 or Mus. 200 .....	3	0	
Electives .....	3	3	
		15-17	17

SOPHOMORE YEAR

Hist. 233 or 234. United States History .....	0	3
Math. 360, 361. Linear Algebra; Algebraic Structures .....	3	3
Psyc. 233-234. Human Growth and Development .....	3	3
Basic Studies Literature .....	3	0
Basic Studies Natural Science .....	4	4
Basic Studies Physical Education .....	1	1
Electives .....	2	3
	<hr/>	<hr/>
	16	17

JUNIOR YEAR

Educ. 360. Foundations of Curriculum .....	3	0
SeEd. 370. Methods and Materials in Teaching in the Secondary School .....	0	3
Hth. 200. Elements of Health Education .....	2	0
Math. 425. Teaching of Secondary Mathematics .....	0	2
Math. 475. Fundamental Concepts of Geometry .....	0	3
Mathematics Elective .....	3	0
Basic Studies Physical Education .....	0	1
Basic Studies Social Science .....	3	3
Electives .....	6	5
	<hr/>	<hr/>
	17	17

SENIOR YEAR

Educ. 470. History and Philosophy of Educational Thought ....	3	0
Educ. 480. Directed Teaching .....	8	0
Math. 376. Probability .....	0	3
Mathematics Electives .....	3	3
Electives .....	2	10
	<hr/>	<hr/>
	16	16

Description of Courses

MATH. 101. *Introduction to Computing*, 1 credit.

An introduction to computing using FORTRAN applicable to the IBM 1130 Digital Computer.

MATH. 103-104. *Mathematics: A Cultural Approach*, 3 credits each semester.

An introductory course designed to give the student an appreciation of the beauty, extent, vitality, and practicality of mathematics. Stresses mathematics as one of many elements in the culture of a civilization. (Recommended especially for students in the fine arts and the humanities and open to students in other curricula.)

MATH. 105-106. *Finite Mathematics*, 3 credits each semester.

An introduction to logic and sets with application to partitions, counting and elementary probability. Matrices and determinants with application to linear programming, game theory, and behavioral sciences. (Recommended for students in the social, behavioral, and biological sciences, business administration, and related areas.)

MATH. 107-108. *Fundamentals of Mathematics*, 3 credits each semester.

Designed for prospective elementary school teachers. A development of basic concepts of elementary mathematics, including sets, logic, and binary operations; the natural numbers and their properties; deductive reasoning and the nature of proof; the integers, rational numbers, real numbers and their properties; relations, functions, and graphs.

MATH. 125-126. *Introduction to College Mathematics*, 3 credits each semester.

A modern integrated treatment of topics from college algebra and trigonometry with particular emphasis on the study of functions and relations; an introduction to analytic geometry. *Prerequisites: One entrance unit in algebra and one entrance unit in plane geometry.*

MATH. 135. *Elementary Functions*, 3 credits.

A study of algebraic, exponential, logarithmic and trigonometric functions. (A student may not have credit for both Mathematics 126 and Mathematics 135. For freshmen who wish to enroll in Mathematics 235 in the second semester.)

MATH. 205. *Introductory Analysis I*, 3 credits.

Topics from differential calculus with applications to the social, behavioral, or life sciences and business or management. *Prerequisite: Six hours of college level mathematics and consent of the instructor.* Not open to majors in mathematics, physics, or chemistry.

MATH. 206. *Introductory Analysis II*, 3 credits.

Topics from integral calculus with applications to the social, behavioral, or life sciences and business or management. *Prerequisite: Math. 205, Introductory Analysis I.* Not open to majors in mathematics, physics, or chemistry.

MATH. 208. *Intuitive Foundations of Geometry*, 2 credits.

An intuitive study of space, plane, and line as sets of points. (Required for elementary education majors. May not be used to satisfy other mathematics requirements.)

MATH. 220. *Elementary Statistics*, 3 credits.

An introduction to the basic concepts of statistics, including a brief treatment of descriptive statistics; probability; empirical and theoretical frequency distributions; problems of sampling; estimation and testing of hypotheses; regression and correlation. *Prerequisite: Math. 105 or Math. 135.*

MATH. 235-236. *Analytic Geometry and Calculus*, 5 credits each semester.

A course integrating the subject matter of analytic geometry and differential and integral calculus. *Prerequisites: Math. 125-126 or Math. 135 or equivalent.*

MATH. 237. *Analytic Geometry and Calculus III*, 3 credits.

A continuation of Mathematics 235-236, including sequences and infinite series. *Prerequisites: Math. 235-236.*

MATH. 238. *Digital Computer Programming*, 3 credits.

Digital computer development, flow charting, programming and solving of selected problems using FORTRAN IV language. Programs written by students will be processed on the IBM 1130 Computer on campus. *Prerequisite: Math. 235.*

MATH. 310. *Elementary Theory of Numbers*, 3 credits.

Topics in elementary number theory, including properties of integers and prime numbers, divisibility of numbers, congruence, residues, and selected topics.

MATH. 338. *Mathematical Iteration*, 3 credits.

An introduction to iteration, summability, recursive formulae, iteration for systems of equations, iteration for roots of algebraic equations, iteration for roots of transcendental equations, interpolation designs, and matrix inversion by iteration. *Prerequisite: Math. 238.*

MATH. 341. *Mathematical Models — Optimization*, 3 credits.

Mathematical modeling with applications to business, ecology, psychology, sociology, and political science. *Prerequisite: 6 credits of mathematics.*

MATH. 360. *Linear Algebra*, 3 credits.

Introduction to logic, sets, and functions, vector spaces, matrices, solution of systems of linear equations.

MATH. 361. *Algebraic Structures*, 3 credits.

Continuation of Mathematics 360 treating abstract groups, rings, fields and polynomial rings.

MATH. 375. *The Real Number System*, 3 credits.

A development of the real number system through a systematic approach to the natural numbers, integers, and rational and irrational numbers.

MATH. 376. *Probability*, 3 credits.

Probability spaces, random variables, discrete and continuous distributions with applications. *Prerequisite: Math 236.*

MATH. 389. *Linear Computational Mathematics*, 3 credits.

An introduction to linear programming, linear systems, and linear analysis. *Prerequisites: Math. 238 and Math. 360.*

MATH. 425. *Teaching of Secondary Mathematics*, 2 credits.

A seminar for prospective mathematics teachers.

MATH. 467-468. *Selected Topics in Mathematics*, 1-3 credits each semester.

Topics in advanced mathematics which are of special interest to the student but not covered in the regularly offered courses. (*Offered only with consent of the Head of the Department.*)

MATH. 475. *Fundamental Concepts of Geometry*, 3 credits.

Origin and development of geometry, axiomatic systems, mathematical proof, and special topics from incidence geometry.

MATH. 477. *Statistics*, 3 credits.

Sampling distributions; point and interval estimation; tests of hypotheses; and design of experiments. *Prerequisite: Math. 376.*

MATH. 485-486. *Differential Equations*, 3 credits each semester.

A study of standard types of elementary ordinary differential equations, linear equations, systems of linear equations, series solutions, numerical methods, stability, elementary partial differential equations, boundary value problems, applications, and selected other topics. *Prerequisite: Math. 237.*

MATH. 488. *Vector Analysis*, 3 credits.

Vector algebra, differentiation and integration of vector functions, and applications of physics. *Prerequisites: Math. 235-236.*

MATH. 492. *Senior Seminar in Mathematics*, 1 credit.

A seminar for senior mathematics majors. *Prerequisites: Senior standing and permission of the Head of the Department.*

MATH. 497-498. *Independent Study*, 1-3 credits each semester.

This course is designed to give students of superior ability and initiative an opportunity to do independent study in mathematics under faculty supervision. (*Offered only with consent of the Head of the Department.*)

MATH. 499. *Honors*, 6 credits. Year Course.

MATH. 506. *Mathematical Statistics*, 3 credits.

Sampling distributions; point and interval estimation; tests of hypothesis; regression and correlation; design and analysis of experiments.

MATH. 510. *Advanced Calculus I*, 3 credits.

A rigorous treatment of fundamental concepts of the calculus, further topics from the calculus of functions of one variable, and calculus of real functions of finitely many real variables. *Prerequisite: At least two semesters of calculus.*

MATH. 511. *Advanced Calculus II*, 3 credits.

Continuation of Mathematics 510.

MATH. 515. *History of Mathematics*, 3 credits.

A study of sources and growth of mathematical ideas and principles from earliest times to the present, with emphasis on the influence of mathematics on the development of civilization.

MATH. 520. *Foundations of Euclidean Geometry*, 3 credits.

A study of the structure and content of Euclidean geometry from an advanced standpoint.

MATH. 525. *Numerical Analysis*, 3 credits.

Error analysis, interpolating functions, roots of equations by successive approximations, iterative methods of solving simultaneous linear equations, and programming. *Prerequisite: Math. 237 (or consent of the instructor).*

MATH. 530. *Abstract Algebra*, 3 credits.

A study of groups, rings, integral domains, and fields.

MATH. 535. *Topology I*, 3 credits.

Introduction to general and point set topology.

MATH. 550. *Theory of Numbers*, 3 credits.

Topics in number theory including divisibility properties, integral solutions of equations, congruences, prime numbers, arithmetic functions, and number theoretic functions.

MATH. 560. *Complex Variables I*, 3 credits.

Classical theory of functions of a complex variable. *Prerequisite or corequisite: Math. 510 or equivalent.*



# DEPARTMENT

## of Music

DR. GORDON L. OHLSSON, *Head of the Department*

*Professors* LYON, OHLSSON, PERKINS, and WEST

*Associate Professors* ININGER, KURTZ, and WRIGHT

*Assistant Professors* CROSS, HARRIS, KNIEBUSCH, LANCE, MCPHERSON,  
B. SMITH, TYNES, D. WATKINS, and L. WATKINS

*Instructors* CHRISTMAN, CYPRET, and INGLES

The Department of Music is organized for three purposes: (1) to prepare students to teach vocal and instrumental music in public and private schools; (2) to provide an adequate specialization for students who wish to pursue music as a major in a liberal arts program; and (3) to provide for all students basic music study and opportunities for further musical growth. An important additional aim of the entire Music Department, including faculty and students, is to provide the campus community and the Harrisonburg area with cultural benefits through music performances presented throughout the year. These performances include faculty and student recitals, concerts by all of the musical ensembles within the department, and oratorio presentations.

In support of these purposes the department offers programs leading to the degrees of Bachelor of Music Education and Bachelor of Arts with a major in Music. In addition there are several non-specialized music courses which students from any department may elect; these students from other departments may also take private music lessons for college credit.

Students seeking teacher certification should take the following courses: Health 200 (Elements of Health Education), History 233 or 234 (United States History); and Psychology 233-234 (Human Growth and Development), Education 360 (Foundations of Curriculum), Secondary Education 370 (Methods and Materials in Teaching in the Secondary School), Music Education 376 (Music for Youth), Music Education 380 (Music in the Elementary School), Education 470 (History and Philosophy of Educational Thought), Education 480 (Di-

rected Teaching). Music Education 481 (Seminar for Student Teachers) is recommended. 4-year program sheets are available from the Music Department Office.

### Admission Requirements

It is assumed that a student choosing to major in music and music education will have sufficient musical talent to indicate promise in his field and that he will have had the necessary background and experience in the performance medium which he elects for his major.

All new students are advised to arrange to be on the campus on either January 4 or March 1, preceding enrollment, for an audition and for testing. An auditioning committee from the Music faculty will thus be able to determine the level of ability of each student. The administered test will be used primarily as a theory placement vehicle and its results will indicate the level at which each student should be placed. Students should be prepared to perform two selections of varying style, period and tempo which demonstrate their highest level of attainment. In addition to the January and March campus audition days, auditions will be conducted in selected areas across the state. Information regarding these auditions will be available from high school music teachers and counsellors. In cases where students find it impossible to appear for either audition, a tape may be submitted. Further information may be procured by writing to the Head of the Music Department.

### Departmental Reviews and Juries

Realizing that entering music students have had varied musical experiences, the departmental philosophy affords students the opportunity to develop their musical abilities through private study in their performance areas. As a measurement of individual progress and potential, juries are held at the close of each semester for all students. In addition to this, departmental reviews are required of first-year music students (including transfer students) at the close of the first and second semesters of study and again at the close of the second year of study.

The departmental review includes a private jury performance before music department faculty of prepared literature displaying the student's present level of musicianship. In addition to this, evaluations of the student's achievement in music theory, ear training, sight singing

and keyboard proficiency are examined and correlated with the performance evaluation. From this, recommendations are made in reference to the student's future potential as a major in music. Copies of these recommendations are given to the student's academic advisor.

### **Recital Performance Policy**

The performance policy is as follows: All students pursuing the degree of Bachelor of Music Education are required to present a full recital or half recital (at the discretion of the major applied teacher) in partial fulfillment of the requirements for that degree.

### **Recital Attendance Requirement**

Attendance at recitals and concerts is a vital part of the education of a musician. Its importance lies in allowing the student to hear a variety of literature and to observe performing techniques from the student to the professional level. Students are encouraged to attend the numerous musical events which are available both on the Madison College campus and in the surrounding area.

As a requirement for graduation, each music major must attend a minimum of 15 recitals per semester for 6 semesters, or the equivalent. Credit will be given only for music department sponsored events in which the student does not participate. The student is expected to attend all faculty recitals and is encouraged to hear concerts in other applied areas as well as his own.

Attendance at Studio, Seminar, and Departmental Recitals is an integral part of the student's applied music study and is not part of the Recital Attendance Requirement.

### **Bachelor of Music Education**

The Bachelor of Music Education degree qualifies the student for certification to teach vocal or instrumental music in the public schools of Virginia and most other states. Students may also gain music skills required for church music, for private music teaching, and for work in a phase of the music industry.

The Bachelor of Music Education degree requires a minimum of sixty-two (62) semester hours in music courses specified as follows:

(1) Music 141-142 (Theory Writing Techniques I); Music 143-144 (Aural Perception I); Music 241-242 (Theory Writing Techniques

II); Music 243-244 (Aural Perception II); Music 327-328 (Conducting); Music 347-348 (Form and Analysis); Music 365-366 (Music History) to total twenty-eight (28) semester hours. Each student is advised to elect, with the guidance of his academic adviser, one or more additional courses from the Music offerings to meet his special needs and interests.

(2) Music Education 105 (Instrumental Music—Percussion); Music Education 107-108 (Instrumental Music—Strings); Music Education 207 (Instrumental Music—Brass) and Music Education 307 (Instrumental Music—Woodwind) or Music Education 305-306 (Instrumental Music—Brass and Woodwind); Music 376 (Music for Youth) and Music Education 380 (Music in the Elementary School) total eleven (11) semester hours.

(3) Electives in performance areas, ensembles, and applied music to total a minimum of twenty-three (23) hours:

Ensembles: a minimum of 4 credits or continuous participation in major ensembles is required in the student's proposed teaching field, unless the Head of the Department gives permission otherwise. It is recommended that students earn additional ensemble credits in large and small ensembles in their major area as well as in their related minor area; for instance, a vocal major with instrumental experience may elect band or orchestra, or an instrumental major who has vocal ability may select a choral ensemble.

#### Applied Music credit:

a. Major instrument: a minimum of 12 semester hours, with 15 being recommended. The choices are as follows:

- (1) Choral music majors will select a major from voice, piano, or organ.
- (2) Instrumental majors will select an instrument from the strings, woodwinds, brass or percussion, as offered in the catalog: violin, viola, cello, string bass, trumpet, French horn, trombone, baritone, tuba, flute, clarinet, saxophone, oboe, bassoon, percussion.
- (3) Piano majors who plan to teach vocal music must take voice (7 semester hours) as their minor applied area. Those who plan to teach instrumental music must take one year of vocal study (2 credit hours, minimum), plus study on one or more instruments to total at least seven hours.

b. Minor instruments: 7 semester hours minimum, to be selected with the guidance of the academic adviser, in accordance with the following stipulations:

- (1) An instrumental major must take a minimum of one year's vocal study, to be class or private instruction depending on recommendation of the student's advisor, and the availability of instructors.
- (2) Vocal majors are required to take keyboard as their minor instrument.

All Music majors and minors are expected to elect Music 200, *Music in General Culture*, to satisfy the Humanities Basic Studies requirement. A special section is provided for Music majors.

All Bachelor of Music Education candidates are required to comply with the recital performance policy and the recital attendance policy described on page 198.

#### Piano Proficiency Requirement

All students will be required to pass a piano proficiency examination prior to student teaching. The proficiency examinations cover keyboard skills in transposing, sight reading, improvisation, playing by ear, and harmonization. As a two-semester course, proficiencies are passed at the end of each semester. All incoming students will be assigned to a class piano section as determined by their major performance instrument (instrumental, vocal, or keyboard), their previous keyboard background, and their current theory class assignment.

The purpose of the class piano program is to provide a foundation in skills and musical learnings basic to the needs of the music educator. This course interrelates to music courses in theory and ear-training and allows students to make valuable transfers in skills to other performance mediums. Materials used are compatible to both traditional and contemporary composition and harmonic practices. Included is solo and ensemble keyboard literature of the baroque, classic, romantic and contemporary music periods.

#### Bachelor of Arts

The program leading to the B.A. degree with a major in Music requires a broad background in music as well as the general academic disciplines and foreign languages. The emphasis is on those music

disciplines which may serve as the basis for graduate study in the area of musicology, music literature and theory. A minimum of eight (8) credits in applied music is required, all to be taken in one area of musical performance. A student who elects to take applied music in excess of eight (8) hours may choose a second area of musical performance. There is no graduation recital requirement for performers pursuing the Bachelor of Arts Degree. The minimum requirement for a major in Music is forty-two (42) semester hours in music courses specified as follows:

- 1) Music Theory: Music 141-142 (Theory Writing Techniques I); Music 143-144 (Aural Perception I); Music 241-242 (Theory Writing Techniques II); Music 243-244 (Aural Perception II); Music 345-346 (Counterpoint); Music 347-348 (Form and Analysis); Music 455 (Composition) to total twenty-six (26) semester hours.
- 2) History and Literature: Music 365-366 (Music History); and Music 460 (Contemporary Music) to total eight (8) semester hours.
- 3) Applied Music electives: to total eight (8) semester hours.

All Bachelor of Arts candidates are required to comply with the recital attendance requirement described on page 198.

#### Music Minor

The Music minor program requires thirty (30) semester hours in music courses in addition to the Basic Studies requirement of Music 200, *Music in General Culture*. Required are:

- 1) Music 141-142 (Theory Writing Techniques I); Music 143-144 (Aural Perception I); eight (8) hours;
- 2) Music 365-366 (Music History); six (6) hours;
- 3) Two or more semester hours from the following:  
Music 345-346 (Counterpoint); Music 347-348 (Form and Analysis); Music 460 (Contemporary Music);
- 4) Fifteen credit hours of musical performance, including 10 hours minimum of applied music, 1 hour of conducting and a maximum of 4 credits in ensemble experience. A student may elect to substitute Teaching of Voice or Piano for 1 semester hour of applied music.

This minor in Music does not qualify a student to teach music in the public schools of Virginia.

### Music Concentration for Education Majors

For students majoring in Education who desire a concentration program in Music, the following courses totaling twenty-four (24) semester hours, are recommended: Music 200 (Music in General Culture); Music Education 375 (Music for Children); Music 141-142 (Theory Writing Techniques I); Music 143-144 (Aural Perception I); Music 327 (Choral Conducting); 9 credits in musical performance, including ensemble, applied music, and/or Conducting 328. A maximum of 4 credits in ensembles may count in this number, and 5 or more credits of the 9 must be in applied music.

The Music Department is a full member of the National Association of Schools of Music.

### Description of Courses

Mus. 141-142. *Theory Writing Techniques I*, 3 credits each semester.

Music scale construction, rhythm, and interval work, melody writing, and a study of triads, inversions, primary and secondary chords, embellishments, modulation to closely related keys, and musical form. To be taken concurrently with Music 143-144.

Mus. 143-144. *Aural Perception I* (0, 2), 1 credit each semester.

A programmed self-instruction course (tape recorded) in music reading in unison and part, dictation, analytical listening, and keyboard harmony. Supervised laboratories scheduled in coordination with the taped material. To be taken concurrently with Music 141-142.

Mus. 200. *Music in General Culture*, 3 credits.

This course aims to increase the variety and depth of the student's interest in music and related cultural activities. It seeks to stress the relation of music as an art to our daily lives and music's place in society, to promote an understanding of the spirit of the art which will lead to the emotional and aesthetic development of the individual, and enable him to enjoy intelligent listening.

Mus. 241-242. *Theory Writing Techniques II*, 3 credits each semester.

Continuation of Music 142; advanced writing and analysis in chromatic and contemporary harmonic techniques. To be taken concurrently with Music 243-244. *Prerequisite: Final grade of "C" or higher in Music 142.*

Mus. 243-244. *Aural Perception II* (0, 2), 1 credit each semester.

Continuation of Music 144; a programmed self-instruction course (tape recorded) in music reading in unison, and parts, dictation, analytical listening, and keyboard harmony. Supervised laboratories scheduled in coordination with the taped material. To be taken concurrently with Music 241-242. *Prerequisite: Final grade of "C" or higher in Music 144.*

Mus. 310. *Language Diction*, 2 credits.

A single semester course limited to pronunciation. The course is designed for voice majors who have little or no background in foreign languages but who need knowledge of pronunciation for the study and performance of vocal and choral literature. Study will emphasize French, German, and Italian, and will involve practice in the language laboratory.

Mus. 327-328. *Conducting*, 1 credit.

To acquaint and prepare prospective music teachers with techniques and practices in conducting bands, orchestras, choral groups, and in leading assembly and community groups in singing. (*Vocal, 1st semester; instrumental, 2nd semester.*)

Mus. 340. *Choral Arranging*, 2 credits.

Study and practice of arranging music for chorus, with special emphasis on characteristics of high school choral groups. *Prerequisites: Mus. 141-142 and Mus. 241-242.*

Mus. 345-346. *Counterpoint*, 2 credits.

Tonal counterpoint. Two, three and four voice forms, florid counterpoint. Elementary imitative techniques. Form analysis. *Prerequisites: Mus. 242, Mus. 345 is prerequisite to Mus. 346.*

Mus. 347-348. *Form and Analysis*, 2 credits.

A review of the small structural elements—the section, phrase, periods, irregular phrases, binary, and ternary form. The study of larger song forms, the sonata form, rondo and fugue. Harmonic analysis of classic, romantic, and modern composition. (*Mus. 347 is prerequisite to Mus. 348.*)

Mus. 355-356. *Orchestration*, 2 credits.

Arranging for ensembles, bands and orchestras. (*Mus. 355 is prerequisite to Mus. 356.*)

Mus. 365-366. *Music History*, 3 credits.

The development of western music from Gregorian chant to the present. *Prerequisites: Mus. 200, Mus. 241-242. Mus. 365 is not prerequisite to Mus. 366.*

Mus. 455-456. *Composition*, 2 credits.

This course is designed to pursue original composition with an emphasis on individual development. Twentieth century styles and trends are studied through a variety of examples. *Prerequisites: Mus. 241-242 or the approval of the instructor.*



Mus. 460. *Contemporary Music*, 1 credit.

A survey, through directed listening, of the trends found in twentieth-century music, stressing appreciative rather than technical aspects.

Mus. 475-476. *The Teaching of Piano*, 1 credit.

Techniques and materials for the teaching of piano, individually, especially elementary and intermediate piano solo and ensemble literature for children, are stressed the first semester.

Intermediate and more advanced materials for the teaching of piano, individually, are emphasized the second semester.

Mus. 477-478. *The Teaching of Voice*, 1 credit.

Materials and techniques for the teaching of voice. This includes a survey of languages, vocal literature, interpretation, teaching of voice in classes, accompaniments and the art of playing them.

Mus. 490. *Special Studies in Music*, 1-3 credits each semester.

This course is designed to give superior music students an opportunity to do independent study under faculty supervision. This study may be in the area of music literature or music education. Permission to enroll must be secured from the Head of the Department.

Mus. 499. *Honors*, 6 credits. Year Course.

Mus. 502. *Instrumental Materials and Techniques* (Summer), 3 credits.

A study of the problems, materials and techniques of teaching instrumental music in the high school, with emphasis on orchestra.

Mus. 510. *Choral Materials and Techniques* (Summer), 3 credits.

A study of the problems, materials and techniques of teaching choral music in high school.

Mus. 526. *Advanced Conducting (Choral and Instrumental)* (Summer), 3 credits.

Refinement of baton technique. Score reading. Specific problems selected from standard works. Practical experience with choral and instrumental groups. *Prerequisites: Mus. 327-328 or equivalent.*

Mus. 527. *Instrumental Techniques* (Summer), 2 credits.

This course is designed for instrumental music teachers who need further help with one specific instrument or group of instruments. Members of the group will work together and separately, each on his special concentration.

Mus. 541. *Modern Harmony and Composition* (Summer), 3 credits.

A study of the harmonic contrapuntal and other stylistic devices of the twentieth-century composer and their application in creative writing by the student who wishes to acquire a technique in the contemporary idiom. Composition in both small and large forms depending upon the talent and background of the

student. This course is not only for the talented composition student but also for the teacher and performer who desires an increased understanding of our contemporary music.

Mus. 542. *Modern Harmony and Composition* (Summer), 3 credits.

A sequel to Music 541. One course may be taken without the other and either may be elected first.

Mus. 561. *Music of the Baroque and Classical Periods* (Summer), 3 credits.

The study of vocal, instrumental and organ music of the Baroque Period beginning with the late Renaissance composers Monteverdi, G. Gabrielli and Sweelinck and culminating in Bach and Handel; the Mannheim School; the Viennese composers; Gluck, Haydn, Mozart, Beethoven.

Mus. 562. *Music of the Romantic Period* (Summer), 3 credits.

A study of the Romantic movement in music with reference to its historical background and parallel movement in literature and art. The music of Schubert, Weber, Berlioz, Mendelssohn, Liszt, Chopin, Wagner, Brahms and their contemporaries. Post-romanticism: Elgar, MacDowell, R. Strauss, Sibelius, and others.

Mus. 563. *Twentieth-Century Music* (Summer), 3 credits.

A survey of the trends found in twentieth-century music. Impressionism; "New Music" from Satie to Schoenberg, Bartok, and Hindemith. The music of contemporary American composers.

MuEd. 105. *Instrumental Music (Percussion)*, 1 credit.

Class instruction in playing the percussion instruments, band marching, parading, and the training of drum majors. Methods and materials for class teaching.

MuEd. 107-108. *Instrumental Music (Strings)*, 1 credit.

Class instruction in playing the string instruments. Study of the violin as the basic instrument followed by the viola, cello and bass. Methods and materials for string class teaching.

MuEd. 207. *Instrumental Music (Brass)*, 1 credit.

Class instruction in playing the brass instruments. Methods and materials for class teaching.

MuEd. 305-306. *Instrumental Music (Brass and Woodwind)*, 1 credit.

This is a course in the playing of brass woodwind instruments and is open only to majors in instrumental music. Work will progress rapidly and will include materials and techniques of teaching.

MuEd. 307. *Instrumental Music (Woodwind)*, 1 credit.

Class instruction in playing woodwind instruments. Methods and materials for class teaching.

MuEd. 375. *Music for Children* (3, 2), 3 credits. Elementary Education Majors only.

A study of the musical responses and needs of elementary school children and of appropriate musical experiences within the elementary classroom, K-6. Course includes study of elementary music textbooks, appropriate listening experiences, use of the keyboard, the recorder, autoharp, and classroom rhythm instruments. Attention is given to basic piano skill development and to music theory necessary for teaching elementary classroom music.

MuEd. 376. *Music for Youth*, 3 credits.

The place of music in the cultural education of adolescents; relationships of school and community music; the teaching of choral music, of instrumental music, and of general and specialized music offerings. The use of standardized music tests; the place of public music performances. Administration of music; housing and equipment for music offerings.

MuEd. 380. *Music in the Elementary School*, 3 credits. Music Majors only.

The general music program in the elementary school is presented for future music specialists, K-6. This course presents a synthesis of current philosophy, learning theories, and educational practices for teaching elementary school music. Materials cover adaptations of Orff and Kodaly, listening to music, the vocal music program, and use of the recorder, autoharp, and tonal and percussion classroom instruments. Emphasis is placed on the developmental characteristics of children on each grade level, with implications for the music specialist. Course includes observations of music classes on each level, K-6, and some student team-teaching of music classes. Preparation for organizing music curricula and daily lesson plans included. *Prerequisites: Psyc. 233-234.*

MuEd. 470. *Instrumental Music Administration* (Third 8 Weeks Only), 2 credits.

A course in which practical experience is a major essential. Two areas of band administration will be stressed: (1) Marching band principles and techniques, including marching, the drum major, the percussion section, and planning band shows, (2) Instrument care and repair. Each student will perform standard first-level maintenance and repair operations.

MuEd. 471. *Musical Show Production* (Third 8 Weeks Only), 2 credits.

The technical aspects of staging musicals, operettas, and opera: consideration of lighting, makeup, and scenery, as well as coaching concepts and techniques related to dramatic as well as to musical problems in individual and ensemble performance.

MuEd. 481. *Seminar for Student Teachers*, 1 credit upon completion of two eight-week sessions, preferably 1 prior to and 1 following Education 480, Student Teaching.

The course is designed to strengthen the Student Teaching experience by (Session I, prior to Education 480) familiarizing students with procedures, material, curricula, and facilities in the schools in which they will receive their

Student Teaching experiences; and (Session 2, following Education 480), giving students the opportunity to relate theoretical learning to the actual teaching experiences, through comparisons of teaching experiences, and a full evaluation of the Student Teaching experiences presented by each student. The seminar is directed by Dr. Lyon and Mr. Tynes, Student Teacher Supervisors for the Music Department.

MuEd. 501. *Summer Workshop* (Summer), 1 credit.

Teachers who attend the Virginia Music Workshop and Camp at Massanetta Springs and who devote a minimum of 30 hours to classes, study, and observation may earn one semester hour of graduate credit at Madison College. This credit may be used for certificate renewal or may apply toward the master's degree. No more than six hours may be considered toward the advanced degree and these may be a combination of credit from this workshop and the Music Education 571-574 summer programs. Since Music Education 501 and 571-574 involve the Virginia Music Camp activities, these courses may be taken concurrently.

MuEd. 571. *Topics in Choral Techniques and Literature* (Summer), 2 credits.

An opportunity for the student to select a topic of special interest in the field of choral music. Available only in the summer session.

MuEd. 572. *Topics in Instrumental Techniques and Literature* (Summer), 2 credits.

An opportunity for the student to select a topic of special interest in the field of instrumental music. Available only in the summer session.

MuEd. 573. *Topics in Pedagogy of Music Theory and Literature* (Summer), 2 credits.

An opportunity for the student to select a topic of special interest in the field of teaching theory and music literature. Available only in the summer session.

MuEd. 574. *Topics in Elementary School Music* (Summer), 2 credits.

An opportunity for the student to select a topic of special interest in the field of elementary music. Available only in the summer session.

Teachers who attend the Virginia Music Workshop and Camp at Massanetta Springs through Madison College may earn a total of six semester hours of graduate credit by participating for three summers. In addition to the week of camp activities the student will spend the following week on the Madison College Campus in individual research and in seminars under the daily supervision of members of the graduate faculty of the Music Department. A student must select a different area of research interest in each of three summer sessions from the four courses, Music Education 571, 572, 573, and 574. It will be advisable for each student to have determined his area of interest and possible research topics prior to camp registration.

## Applied Music Instruction

Students may begin the private study of music or continue at their present level of achievement. All who desire private lessons should confer with the Head of the Music Department before registering.

The following should guide students in their choice of a major area:

1. It is desirable that all students have at least an elementary knowledge of the piano.
2. They should have a reliable fundamental technique which will enable them to achieve adequately at least the minimum requirements given for the various major areas.
3. They should be acquainted with elementary standard technical studies and with preparatory-level literature in the major area.

All students in the music program and students in elementary education with a concentration in music must pass a short examination in their principal and minor areas of applied music each semester; this examination to be given by a jury of the music faculty. The jury will be concerned more with musical understanding and quality of performance rather than mere difficulty of the music.

Courses in music performance follow. Substitute in place of "applied music" the area in which you register for instruction: piano, voice, organ, etc. Requirements shown are *Minimum requirements for graduation*; students may progress as quickly and as far as their interests and ability permit.

MuAp. 100-101. *Class Piano*, 1 credit each semester.

For the beginning pianist (instrumental or vocal majors). This course is designed for all functional uses of the piano in teaching situations. Keyboard skills include sightreading, transposition, harmonization, improvisation, playing by ear, and improvising vocal/instrumental solo accompaniments. The facilities of the electronic piano laboratory provide for individual and small or large group ensemble instruction and playing.

MuAp. 102-103. *Class Piano*, 1 credit each semester.

An advanced approach to development of keyboard skills and functional piano for those with previous piano experience. Placement in these sections is determined by audition. Included in practice in all skills covered in 100-101; however, a more advanced level of proficiency is expected. The facilities of the electronic piano laboratory provide for individual and small and large group instruction and ensemble playing.

Applied music numbers below pertain to all vocal, keyboard and instrumental private lessons.

MUAP. 115-116 (first year); 215-216 (second year); 315-316 (third year); 415-416 (fourth year). One half-hour lesson a week. Five hours minimum practice per week. One credit each semester.

MUAP. 125-126 (first year); 225-226 (second year); 325-326 (third year); 425-426 (fourth year). Two half-hour lessons a week. Ten hours minimum practice per week. Two credits each semester.

MUAP. 135-136 (first year); 235-236 (second year); 335-336 (third year); 435-436 (fourth year). Two half-hour lessons a week. Fourteen hours minimum practice per week. Three credits each semester.

MUAP. 511 (first year); 512 (second year); 513 (third year); 514 (fourth year). One half-hour lesson a week. Five hours minimum practice per week. One credit each semester.

### PIANO

*B.M.Ed. Program, minimum requirements:* Scales, arpeggios and other technical studies to meet individual needs of student. Works from Baroque, Classical, Romantic and Contemporary eras. Sightreading of simple classics and accompaniments. Participating in piano performance classes, seminars and departmental recitals. Graduation recital to include works from at least three of the above mentioned eras.

### VOICE

*B.M.Ed. Program, minimum requirements:* Building of sound vocal technique with the use of appropriate material for various stages of development. Representative standard vocal literature of all periods and styles—Lieder, Oratorio and Opera—to be studied in English and in the original language. The literature studied is necessarily dependent upon the level of technical and music development.

### ORGAN

It is recommended that students who register for organ have a comprehensive piano background to the level of Bach two- and three-part Inventions and works of medium difficulty from the Classic and Romantic Periods. The program of study will include manual and pedal exercises from the Gleason: *Method of Organ Playing* and organ literature of all periods will be assigned in accordance with the individual stage of technical and musical development.

## VIOLIN

*B.M.Ed. Program, minimum requirements:* Scales and arpeggios, major and minor, in three octaves from Hrimaly and Carl Flesch; double stop scales. Technical studies based on Sevvick, Dounis, and etudes of Kreutzer, Fiorillo, Dont Opus 37, Mazas, and Rode. Concertos of Nardini, Viotti, Bach, Mozart, and romantic composers. Sonatas of the old Italian masters, and of Bach, Handel, Mozart, and Beethoven. Representative sonatas and recital pieces from romantic and contemporary eras. Chamber music study.

## WOODWIND, BRASS and PERCUSSION

*B.M.Ed. Program, minimum requirements:* Students may register for instruction in Flute, Oboe, Clarinet, Saxophone, Bassoon, Trumpet, French Horn, Baritone, Trombone, Tuba, and Percussion. Embouchure and tone development; techniques applicable to the instrument; scales and arpeggios major and minor; standard technical studies. Sonatas, concerti and repertoire pieces of medium difficulty. Ability to participate in the performance of ensemble.

## MUSIC ENSEMBLES

All music majors are required to participate in a music ensemble throughout their four years of study. Students not majoring in music may register for the following courses, with or without credit, but they should consult with the director of the organization before registering.

BAND 109 (first year); 209 (second year); 309 (third year); 409 (fourth year). 3 periods a week; 1 credit a year. (Year Course).

The Marching and Concert Band is open to all interested participants. Admission is by audition. A wide variety of music is utilized for sight-reading and performance to acquaint the student with the different kinds of band literature. The Band will concentrate on marching activities during the first semester and on concert repertoire in the second semester. Interested students contact Mr. Harris in the Music Department.

CHAMBER MUSIC 109 (first year); 209 (second year); 309 (third year); 409 (fourth year). 3 periods a week; 1 credit a year. (Year Course.)

Chamber music study is required of all string majors and is to be considered an integral part of their applied music course. Trios and quarters of Haydn, Mozart, Beethoven, Mendelssohn, Schubert, Tschaiikowsky, Dvorak. Quintets of Mozart, Schumann, Brahms, Franck and others. Contemporary works. Other chamber music combinations may be formed as need arises.

CHORUS (mixed) 109 (first year); 209 (second year); 309 (third year); 409 (fourth year). 3 periods a week; 1 credit a year. (Year Course.)

The purpose of the organization is to acquaint students with a variety of choral music, including much that is suitable for use with school groups, and through the singing of this to develop choral techniques and general musicianship. Students may participate in this ensemble without audition. However, the director of the Chorus reserves the right to determine its membership.

COLLEGE CHORALE 109 (first year); 209 (second year); 309 (third year); 409 (fourth year). 3 periods a week; 1 credit a year. (Year Course.)

This highly selected, 60-voice mixed choir performs repertoire from the Renaissance to the contemporary era, both sacred and secular. There is opportunity to perform on and off campus, including an annual Spring Tour. For audition information contact Mr. David Watkins (DM-214). Three rehearsals per week.

CONCERT CHOIR (women) 109 (first year); 209 (second year); 309 (third year); 409 (fourth year). 3 periods a week; 1 credit a year. (Year Course.)

This 45-voice women's choir performs a wide variety of literature, sacred and secular, from the Renaissance to the present. Performances are on and off the campus; including an annual Spring Tour. For audition information contact Mr. David Watkins (DM-214). Three rehearsals per week.

ORCHESTRA 109 (first year); 209 (second year); 309 (third year); 409 (fourth year). 3 periods a week; 1 credit a year. (Year Course.)

The Madison College-Community Orchestra is a participating member of the American League of Symphony Orchestras. As much as possible, the structure is set to follow that of professional and semi-professional orchestras throughout the United States. The Orchestra membership draws from both college and community resources and performs two concerts per semester. Membership is determined by audition only and is open to non-music majors; two rehearsals per week. Interested students should contact Dr. Ben E. Wright, Music Department.

THE MADISON SINGERS 109 (first year); 209 (second year); 309 (third year); 409 (fourth year). 3 periods a week; 1 credit a year. (Year Course.)

The Madison Singers, a group of 16 to 20 members, is a highly specialized vocal organization. Membership is by audition. The repertoire is widely varied from early madrigals to jazz. Students interested in this ensemble should contact Dr. Ohlsson.

COLLEGE JAZZ ENSEMBLE 109 (first year); 209 (second year); 309 (third year); 409 (fourth year). 3 periods a week; 1 credit a year. (Year Course.)

An instrumental ensemble, containing sub-groups, performing the standard and contemporary repertoire of American Music with emphasis on the jazz idiom. For audition information, contact Dr. George A. West, Room DM-206. Open to all Madison College students who have sufficient ability to play the repertoire.



WIND ENSEMBLES 109 (first year); 209 (second year); 309 (third year); 409 (fourth year). 3 periods a week; 1 credit a year. (Year Course.)

The Wind Ensembles, consisting of Woodwind Quintets and other smaller and larger combinations, are limited to specially selected personnel through auditions. Concerts and other performances are prepared from a variety of literature from the Classical Period to the present. Interested students should contact Dr. S. James Kurtz.

STRING ENSEMBLE 109 (first year); 209 (second year); 309 (third year); 409 (fourth year). 3 periods a week; 1 credit a year. (Year Course.)

The String Ensemble is open to any string player by audition. The performance of string literature not otherwise available in a full orchestra is the primary function of this ensemble. Clinics and public school performances are provided by this group as well as opportunities to perform with selected wind performers in small ensembles. String majors are encouraged to participate. More information is available by contacting Dr. Ben E. Wright, Music Department.

# DEPARTMENT

## of Philosophy and Religion

DR. WILLIAM E. CALLAHAN, *Head of the Department*

*Professors* CALLAHAN, SWEIGART, and THOMAS

*Associate Professor* O'MEARA

*Assistant Professor* WILES

Two majors and two minors are offered by the Philosophy and Religion Department: a major in philosophy and a combined major in philosophy and religion. Minors are offered in both philosophy and religion. Both major programs lead to the Bachelor of Arts degree.

The majors and minors in philosophy and in philosophy and religion are designed to meet the needs of the following: (1) those who wish to derive the broadest liberal education through the study of either philosophy or religion, but have no professional interest in the fields; (2) those who desire a broadly conceived liberal education preparatory to graduate study in a field other than either philosophy or religion; (3) those who, by reason of professional interest in either philosophy or religion, plan to do graduate work in these fields.

The courses offered in philosophy and religion are designed primarily to provide the student with sound principles and critical thinking, to help him acquire knowledge of the development and problems of philosophic and religious thought, and to lead him to formulate an intelligent view of the meaning and value of life in terms of his own experience.

The study of these fields provides the broadest understanding possible of a truly liberal education, and places little emphasis on the vocational utility of such a study. However, students have found a philosophical background useful for all careers including such diverse ones as business, teaching, medicine, theology, government, and home-making.

A major program in philosophy consists of a minimum of thirty (30) hours in philosophy including the following required courses: Philosophy 240 (Introduction to Philosophy), Philosophy 250 (Intro-

ductory Logic), Philosophy 340 (Ancient and Medieval Philosophy), Philosophy 341 (Modern Philosophy), Philosophy 420 (Studies in Major Philosophers) or Philosophy 460 (Advanced Problems in Philosophy).

Each major in philosophy will be required to pass a comprehensive examination prepared by the department. (In lieu of the departmental examination, a student may elect to take the Graduate Record Examination Advanced Test in philosophy, at his own expense.)

A major program in philosophy and religion consists of a minimum of thirty-six (36) hours approved by the Department Head. A philosophy and religion major is required to have seven courses in philosophy and five courses in religion including the following: Philosophy 240 (Introduction to Philosophy), Philosophy 250 (Introductory Logic), Philosophy 340 (Ancient and Medieval Philosophy), Philosophy 350 (Philosophy of Religion), and three 400-level electives; Religion 305 (Introduction to the Literature and Religion of the Old Testament) or Religion 306 (Introduction to the Literature and Religion of the New Testament), Religion 330 (Introduction to the Study of Religion), Religion 440 (Major Religious Thinkers) or Religion 460 (Issues in Religious Thought), and two electives.

Each person taking the joint philosophy and religion major will be required to take a comprehensive examination prepared by the department.

Requirement for minor in philosophy: a minimum of eighteen (18) semester hours in philosophy, including Philosophy 240 (Introduction to Philosophy), Philosophy 250 (Introductory Logic), Philosophy 340 (Ancient and Medieval Philosophy) or Philosophy 341 (Modern Philosophy); and three electives which may include Religion 370 (Religions of the World), approved by the Head of the Department.

Requirement for minor in religion: a minimum of eighteen (18) semester hours in religion, including Religion 305 (Introduction to the Literature and Religion of the Old Testament) or Religion 306 (Introduction to the Literature and Religion of the New Testament), Religion 330 (Introduction to the Study of Religion), Religion 370 (Religions of the World); and three electives, which may include Philosophy 350 (Philosophy of Religion), approved by the Head of the Department.

The courses taken for a specific semester or year may vary according to students' desires and available offerings by the department. Generally speaking, majors in either program should take Introduction to Philosophy (Philosophy 240) and Introductory Logic (Philosophy 250) the first year. In addition, Basic Studies and degree requirements (See pgs. 69-70; 83-84) should form the core of the first two years of a student's program. Specific student programs should be worked out in consultation with the Head of the Department or the student's faculty advisor.

## Description of Courses

### Philosophy

PHIL. 240. *Introduction to Philosophy*, 3 credits.

This course seeks to acquaint students with both the history and the characteristic problems of philosophical inquiry. Special attention is given to the nature of philosophical statements as such, in their historical origin, and to the nature of the questions they seek to answer. Important concepts in the development of Western thought are examined in their bearings on ethics, religion, and science. *This course is a prerequisite for all courses in philosophy, other than Logic and Professional-Ethics courses, except by permission of the instructor.*

PHIL. 250. *Introductory Logic*, 3 credits.

A critical examination of the formal principles of sound reasoning. *No prerequisite.*

PHIL. 330. *Ethics*, 3 credits.

The nature of ethical discourse, and an examination of selected ethical problems posed in philosophical literature from Plato to the present.

PHIL. 340. *Ancient and Medieval Philosophy*, 3 credits.

An examination of the writings of major philosophers from Thales to Aquinas.

PHIL. 341. *Modern Philosophy*, 3 credits.

An examination of the basic philosophic tendencies in the period from the Renaissance through the nineteenth century. Emphasis will be placed on the major philosophers from Descartes to Nietzsche.

PHIL. 344. *Existentialism*, 3 credits.

An examination of existentialism and its major spokesmen, including such authors as Kierkegaard, Nietzsche, Sartre, Camus, Marcel and Heidegger.

PHIL. 350. *Philosophy of Religion*, 3 credits.

A systematic examination of the foundations of religious discourse, with extensive reading in the contemporary literature of philosophical theology and particular emphasis on the impact of contemporary thought on religious knowledge.

PHIL. 360. *Philosophy and Modern Literature*, 3 credits.

In this course, philosophical problems are arrived at inductively through a detailed study of contemporary literary works. Authors treated include Ionesco, Camus, Sartre, Marcel, Huxley, Eliot, Barth, and others. *May be counted toward a major in English.*

PHIL. 370. *American Philosophy*, 3 credits.

A study of the main philosophical ideas in America, especially pragmatism, with particular emphasis being given to Peirce, James, Royce, Dewey, and Whitehead.

PHIL. 380. *Social Philosophy*, 3 credits.

A study of the major social and political philosophies both classical and contemporary.

PHIL. 390. *Philosophy of Science*, 3 credits.

An intensive examination of the basic philosophical problems raised by scientific inquiry in the natural and social sciences. Consideration will be given to fundamental concepts and problems in the sciences and their relation to society.

PHIL. 410. *Symbolic Logic*, 3 credits.

The study and application of the principles and techniques of modern deductive logic to natural language. Also, examination of the properties of formal systems and of the logical implications and paradoxes of language. *Prerequisite: Philosophy 250 or permission of the instructor.*

PHIL. 420. *Studies in Major Philosophers*, 3 credits.

Reading and discussion of the chief writings of one or two of the major persons in the history of philosophy, such as: Plato, Aristotle, Aquinas, Descartes, Hume, Kant, Kierkegaard, and Wittgenstein.

PHIL. 430. *Analytic Philosophy*, 3 credits.

An examination of the origins and development of contemporary philosophical analysis, with special attention given to the nature and uses of language.

PHIL. 440. *Professional Ethics*, 3 credits.

An analysis and discussion of significant, contemporary ethical issues and problems existing throughout the various fields of professional work.

PHIL. 450. *Theory of Knowledge*, 3 credits.

An extensive examination of theories of knowledge; philosophical problems concerning knowledge and belief.

PHIL. 460. *Advanced Problems in Philosophy*, 3 credits.

An advanced study of some of the major issues encountered in the mainstream of philosophic thought.

PHIL. 490. *Special Studies in Philosophy*, 3 credits.

Designed to give able students an opportunity to do independent study in philosophy under faculty supervision. *Prerequisite: permission of department.*

PHIL. 499. *Honors*, 6 credits. Year Course.

## Religion

All courses in religion are offered on an elective and non-sectarian basis.

REL. 305. *Introduction to the Literature and Religion of the Old Testament*, 3 credits.

A study of the foundation of the Judaeo-Christian tradition through an examination of selected writings of the Old Testament in their historical setting. Emphasis is placed on the student's direct familiarity with the text of the Bible.

REL. 306. *Introduction to the Literature and Religion of the New Testament*, 3 credits.

A study of the faith of the New Testament community as reflected in its literature (including the Gospels, Acts and Letters of Paul). Attention is given to the development of tradition and problems of interpretation.

REL. 320. *Life and Teachings of Jesus*, 3 credits.

A study of the life and teachings of Jesus of Nazareth with a view to understanding their significance for the first century and for the twentieth century.

REL. 330. *Introduction to the Study of Religion*, 3 credits.

The exploration of several religious perspectives and ways of thinking about religious themes. Topics may include revelation, mysticism, myth, ritual, forms of theism, and religious experience.

REL. 340. *Religion in America*, 3 credits.

A descriptive approach to the study of religion, its role in contemporary American society and its function for contemporary man. Special attention is given to major forms of religion in America.

REL. 350. *Advanced Biblical Studies*, 3 credits.

An intensive study of selected Biblical books or themes, with emphasis upon both the original significance of the material and its contemporary relevance. *Prerequisite: Rel. 305 or Rel. 306.*

REL. 360. *History of the Christian Church*, 3 credits.

A survey of the development of the Church with primary emphasis upon the people, ideas, doctrines, and major crisis points around which the development took place.

REL. 370. *Religions of the World*, 3 credits.

An investigation of the world's major religions which will give attention to their origin, history, mythology, and doctrines.

REL. 380. *Advanced Studies in Non-Christian Religions*, 3 credits.

Detailed investigation of one or more of the world's non-Christian religions, such as Judaism, Hinduism, Buddhism, Taoism, Islam, or others as announced. *Prerequisite: Rel. 370 or permission of instructor.*

REL. 440. *Major Religious Thinkers*, 3 credits.

Examination of the works of one or more important people in western religious thought, such as Karl Barth, Rudolph Bultmann, H. Richard Niebuhr, Karl Rahner, A. Joshua Heschell or others.

REL. 460. *Issues in Religious Thought*, 3 credits.

Reading and discussion of issues that have had significant import or are matters of present religious concern. Particular topics will vary but may include such items as changing patterns of religious thought, the possibility of faith in a secular age, and morality and religion.

REL. 490. *Special Studies in Religion*, 3 credits.

Designed to give able students an opportunity to do independent study in religion under faculty supervision. *Prerequisite: permission of department.*

REL. 499. *Honors*, 6 credits. Year Course.

# DEPARTMENT

## of Physics

DR. ROBERT E. KRIBEL, *Head of the Department*

*Professors MEYERS and WELLS*

*Associate Professors KRIBEL, K. MOORE, STAIB, and TAYLOR*

*Assistant Professors CONWAY and J. GORDON*

The basic objectives of the Department of Physics are to provide programs of study leading to the major in physics or minor in physics for students preparing to teach, pursue graduate work, or enter government, medical physics, or industrial work. The Department of Physics also provides courses to meet certain basic studies needs and courses which serve other departments.

The minimum requirement for an undergraduate major in physics is thirty-two (32) semester hours of courses numbered 230 and above and must include Physics 231-232 (General Physics), Physics 337 (Atomic Physics), Physics 341 (Mechanics) and Physics 445 (Electricity and Magnetism). Physics 220 (Astronomy) and/or Physics 135 (General Physics) will not count toward the major but are recommended in the freshman year.

The minimum requirement for a minor in physics is eighteen (18) hours including Physics 231-232 (General Physics). The remainder of the eighteen (18) semester hours may be selected from courses numbered 230 and above.

In order to meet physics course prerequisites, students anticipating a major or minor in physics should elect Mathematics 235-236 (Analytic Geometry and Calculus).

Students seeking teacher certification in secondary education should take the following courses: Health 200 (Elements of Health Education), History 233-234 (United States History), Psychology 233-234 (Human Growth and Development), Education 360 (Foundations of Curriculum), Secondary Education 376 (Methods and Materials for Teaching in the Secondary School—Science), Education 470 (History



and Philosophy of Educational Thought), Education 480 (Directed Teaching), and Science 490P (Seminar for Science Teachers).

Students interested in a physics major or minor should consult the Head of the Department, 6 Burruss Hall.

### Suggested Programs

#### MAJOR IN PHYSICS

##### FRESHMAN YEAR

Chem. 101-102  
Eng. 101-102  
Math 135, 235  
Art. 200 or Mus. 200  
Physical Education  
Electives

##### JUNIOR YEAR

Phys. 337  
Phys. 341  
Literature  
Social Science  
Electives

##### SOPHOMORE YEAR

Comm. 200  
Hist. 255-256  
Math. 236  
Phys. 231-232  
Physical Education  
Electives

##### SENIOR YEAR

Phys. 445  
Electives

#### MAJOR IN PHYSICS WITH CERTIFICATION TO TEACH

##### FRESHMAN YEAR

Chem. 101-102  
Eng. 101-102  
Math. 135, 235  
Art 200 or Mus. 200  
Physical Education  
Electives

##### JUNIOR YEAR

Educ. 360  
SeEd. 376  
Hth. 200  
Hist. 233 or 234  
Phys. 337  
Phys. 341  
Sci. 490P  
Social Science  
Electives

##### SOPHOMORE YEAR

Comm. 200  
Hist. 255-256  
Math. 236  
Phys. 231-232  
Psyc. 233-234  
Literature  
Physical Education

##### SENIOR YEAR

Educ. 470  
Educ. 480  
Phys. 445  
Electives

## MAJOR IN PHYSICS WITH MEDICAL PHYSICS OPTION

### FRESHMAN YEAR

Chem. 101-102  
Comm. 200  
Eng. 101-102  
Hist. 255  
Math. 135  
Math. 235  
Art 200 or Mus. 200  
Physical Education

### SOPHOMORE YEAR

Bio. 270  
Bio. 290  
Hist. 256  
Math. 236  
Math. 238  
Phys. 231  
Phys. 232  
Literature  
Physical Education

### JUNIOR YEAR

Bio. 360  
Chem. 237  
Chem. 238  
Phys. 230  
Phys. 337  
Phys. 338  
Phys. 344  
Electives

### SENIOR YEAR

Hth. 314  
Phys. 341  
Phys. 444  
Phys. 445  
Phys. 447  
Social Studies  
Electives

## Description of Courses

PHYS. 109. *Introductory Physics* (3, 2), 4 credits.

A course centered around a descriptive treatment of major concepts in physics. Topics relevant to contemporary life are selected from the areas of astronomy and physics. This course is especially recommended as a partial fulfillment of the basic studies requirement in the various non-science fields.

PHYS. 110. *Principles of Physics*, (3, 2), 4 credits.

A one-semester course with emphasis on primary physical principles: laws of motion, wave phenomena, thermal properties of matter, electricity and magnetism, light, and physics of the atom.

\*PHYS. 130. *General Physics (Non-Calculus)* (3, 2), 4 credits.

A laboratory course with emphasis on the fundamental laws of mechanics, electricity, magnetism, and an introduction to modern physics, radiation and heat.

\*PHYS. 135. *General Physics (Non-Calculus)* (3, 2), 4 credits.

A laboratory course with emphasis on wave motion, optics, and the thermal properties of matter.

\*Students wishing a full year non-calculus general physics course should elect both Physics 130 and Physics 135 in either order.

PHYS. 210. *Physics for Medical Technology* (3, 2), 4 credits.

A one semester introductory course for medical and X-ray technology students designed to acquaint the student with basic physical concepts of force, energy, electricity and radiation. Emphasis is placed on basic concepts of electricity and magnetism, X-ray production, atomic energy and radiation safety in the medical field. Open with permission of the instructor.

PHYS. 220. *Astronomy* (1, 2), 3 credits.

A descriptive course covering the solar system, the constellations of our galaxy and the extragalactic systems. Classes are replaced occasionally by evening observation periods. Use is also made of the Spitz planetarium.

PHYS. 230. *Health Physics* (3, 2), 4 credits.

A one-semester course in the study of radiation hazard, dose limitations, dose calculations; shielding requirements to include X-ray shielding, radiation measurements, contamination problems, decontamination procedures and survey instruments. This course emphasizes the techniques and procedures of radiation safety and contamination control with less emphasis on atomic and nuclear structure. *Prerequisites: Basic Studies in Mathematics and one semester of physics, biology, or chemistry.*

PHYS. 231-232. *General Physics (Calculus)* (3, 3), 4 credits each semester. Year Course.

A basic course in general physics. Provides the background necessary for advanced work in physics and for an understanding of allied subjects. Experiments and elementary problems in the fields of mechanics, heat, sound, electricity, optics, and modern physics are included. *Corequisite: Math. 235.*

PHYS. 241-242. *Electronics I-Electronics II* (3, 2), 4 credits each semester.

Lecture-demonstrations dealing with the thermionic vacuum tube and its applications like the rectifier, amplifier, oscillator, modulator, and the cathode ray oscilloscope. The student will use test instruments and perform practical operating experiments in the laboratory for radio broadcasting and reception of AM, FM and TV, antennas, microwaves, lecher wires, slotted lines, and transmission lines. During the second semester emphasis is placed on solid state devices and circuitry including diodes, photocells, transistors, and thermistors. Emphasis is placed upon laboratory experiments. *Prerequisites: Phys. 130-135 or Phys. 231-232.*

PHYS. 250. *Optics* (3, 2), 4 credits.

Lecture-demonstrations dealing with geometric and physical optics, including reflection and refraction, interference, diffraction, polarization, photoelectricity, electro-optics, magneto-optics, electromagnetic spectrum, coherent light, and microwave optics. Emphasis is placed upon laboratory experiments using precision optical instruments. *Prerequisites: Phys. 130-135 or Phys. 231-232.*

PHYS. 337. *Atomic Physics* (3, 3), 4 credits.

An introduction to contemporary physics. Topics will include special relativity, black body radiation, photo effect, electron waves, Compton scattering, X-rays, angular momentum and introductory Schrodinger wave mechanics. The

laboratory will consist of a limited number of related experiments to be completed with precision and thoroughness. *Prerequisites: Phys. 231-232.*

PHYS. 338. *Nuclear Physics* (3, 2), 4 credits.

An introduction to natural and artificial radioactivity, mass spectroscopy, fundamental particles, nuclear reactions and radiation, elementary theories of the nucleus, and nuclear reactors. The laboratory will emphasize instrumentation used in radiation detection utilizing a multichannel pulse analyzer and a 4 curie plutonium beryllium neutron source. *Prerequisites: Phys. 231-232.*

PHYS. 341-342. *Mechanics*, 3 credits.

Application of the fundamental laws of mechanics to particles and rigid bodies. Topics include statics, dynamics, central forces, oscillatory motion, and generalized coordinates. *Prerequisites: Phys. 231-232.*

PHYS. 344. *Dosimetry and Instrumentation* (3, 2), 4 credits.

A detailed study of radiation detection fundamentals, survey and laboratory instruments, counting methodology, statistics or counting and principles of radiation dosimetry. *Prerequisite: Phys. 230.*

PHYS. 430. *Thermodynamics*, 3 credits.

A study of theory and experiments in the field of heat and thermodynamics. Topics include equations of state, first and second laws of thermodynamics, properties of ideal gases, transport phenomena, and properties of solids. *Prerequisites: Phys. 231-232.*

PHYS. 444. *Radiation Hazards and Analysis*, 3 credits.

A detailed study of radiation hazards and analysis of radiation accidents that have occurred. Students will be presented with situations to analyze the radiation hazards and techniques of hazard control and containment. *Prerequisites: Phys. 230, Phys. 344.*

PHYS. 445. *Electricity and Magnetism* (3, 3), 4 credits.

A study of the electrostatic field, the magnetic field, direct and alternating currents, and electromagnetic waves. *Prerequisites: Phys. 231-232 and consent of instructor.*

PHYS. 447. *Medical Electronics* (3, 2), 4 credits.

Physics principles and practice relating to advanced equipment employed in hospitals, physicians' offices, and the medical field, to diagnose and treat patients. Lecture-demonstrations, laboratory experiments, and field trips to local hospitals will augment instruction. *Prerequisites: Phys. 231-232.*

PHYS. 470-471. *Selected Topics in Theoretical and Experimental Physics*, 2 credits each semester.

A study in depth of specific areas of physics selected according to student needs and interests and staff availability. *Prerequisites: Phys. 231-232 plus 16 additional hours of physics.*

PHYS. 497-498. *Problems in Physics*, 1-3 credits each semester.

A conference course in which the subject matter and experimental work are selected to meet the needs and interests of each individual student. (Open with permission of the Head of the Department.)

PHYS. 499. *Honors*, 6 credits. Year Course.

PHYS. 505. *Matter and Energy* (Summer), 3 credits.

The course is intended to give graduate students planning to teach in the elementary school an understanding of one of the major physical science problems facing mankind. Emphasis is placed on matter and energy as unifying concepts in the physical sciences. (This course was offered formerly as Physical Science 520.)

PHYS. 510. *Theoretical Physics*, 3 credits.

Mathematical development of theories and problems in mechanics, thermodynamics, wave motion, electricity, magnetism, optics, and modern physics. (This course is especially designed to provide necessary flexibility for students of varying backgrounds and levels of preparation who may wish to enter the graduate program.)

PHYS. 520. *Classical Mechanics*, 3 credits.

Classical mechanics through Lagrangian and Hamiltonian formulation of Newton's laws; particle and rigid body motion; variational principle. Topics also include small oscillations, canonical transformations, and relativistic mechanics.

PHYS. 530. *Experimental Nuclear Physics* (2, 3), 3 credits.

Topics will include abundance and composition of nuclei, nuclear forces, natural radioactivity, decay series, interactions of radiations with matter, transmutations and artificial radioactivity. Studies of the detection and measurement of radiations will be made in the laboratory. Properties of the neutron will be examined using a  $^4\text{Ci Bu-Be}$  isotope neutron source.

PHYS. 540. *Solid State Physics*, 3 credits.

Forces between atoms: crystal structure; lattice vibrations and thermal properties of solids; free electron theory of metals; band theory of solids; semiconductors dielectrics.

# DEPARTMENT

## of Political Science and Geography

DR. RUSSELL F. FARNEN, JR., *Head of the Department*

*Professors* CLINE, FARNEN, B. FOX, A. HALL, H. MYERS, and NELSON

*Assistant Professors* ENEDY, MECHTENSIMER, MORTIMER, PAUL, and  
WALL

*Lecturer* SULLIVAN

The Department of Political Science and Geography offers programs designed for students interested in political processes, institutions, and theory and in regional and systematic geography. These programs offer a broad background for careers in government and teaching and provide the basis for graduate study.

This department offers a major in Political Science, a major in Geography, and minors in these two subjects. In addition, the department offers a concentration in Para-Legal studies and a concentration in Public Administration. Furthermore, the department administers a program in Pre-Law, an inter-departmental program in Russian and Sino-Soviet Studies, and a General Social Science major, descriptions of which are found elsewhere in this catalog.

The major and minor programs in Political Science and Geography meet the Collegiate Professional Certification requirements for teaching these subjects in Virginia's secondary schools. Students seeking such certification with specific endorsement to teach either Political Science (Government) or Geography should take the following courses: Economics 220 or 230 (Survey of Economics or Principles of Economics), Health 200 (Elements of Health Education), History 233 or 234 (United States History), Psychology 233-234 (Human Growth and Development), Education 360 (Foundations of Curriculum), Secondary Education 375 (Methods and Materials in Teaching in the Secondary School—Social Studies), Education 470 (History and Philosophy of Educational Thought), and Education 480 (Directed Teaching).

## Major in Political Science

The minimum requirement for a major in Political Science is thirty (30) semester hours — PoSc. 225 (United States Government), PoSc. 230 (International Relations), PoSc. 300 (Political Analysis) or a Political Theory course (PoSc. 310, 315, 320, 330), PoSc. 305 (Political Research Methods), and PoSc. 306 (Applied Political Research). For the remainder of the thirty (30) semester hours the student may choose from among the various Political Science courses offered and Soci. 360 (Social Movements). A student may, upon the advice of his advisor, concentrate his course work in the American government or international areas, or pursue a general pattern of courses. Copies of the B.A. and B.S. programs in Political Science are available in the office of the department, Harrison, Room A-103.

## Major in Geography

The minimum requirement for a major in Geography is thirty (30) semester hours. The following courses are required for the major: Geog. 120 (Introduction to Geography), Geog. 210 (Physical Geography), Geog. 215 (Map Reading and Interpretation), Geog. 236 (Anglo-America), and Geog. 315 (Field Studies in Geography). The remainder of the thirty hours will consist of electives in Geography. Copies of the B.A. and B.S. programs in Geography are available in the office of the department, Harrison, Room A-103.

## Basic Studies and Degree Requirements

The specific requirements and options for the basic studies program are fully described in this catalog on pages 69 to 70. Students in the B.S. degree program are expected to complete English 101-102 (6 Hrs.), Communication 200 (3 Hrs.), Art 200 or Music 200 (3 Hrs.), Literature (3 Hrs.), Mathematics (3 Hrs.), Physical Education (3 Hrs.), Natural Science (8 Hrs.), History 255-256 (6 Hrs.), and Social Science (6 Hrs.), for a total of 41 semester hours. Students in the B.S. degree program, in addition to completing the Basic Studies Requirement, as detailed above, will also complete another mathematics course (3 Hrs.), and either four (4) hours in Natural Science or three (3) hours in Social Science. Students in the B.A. degree program, in addition to completing the Basic Studies Requirement, as detailed above, will also complete a Philosophy Course (3 Hrs.) and a Foreign Language course (6-14 Hrs.) as described on page 68 in the catalog.

## Minors

A student may minor in Geography or Political Science. Eighteen (18) semester hours are required for a minor.

## Pre-Law Program

Students who plan to apply to law school may select their major from a wide range of fields, depending upon their interests. The scope of the law is broad and offers room for individuals of varied educational and intellectual backgrounds. The student's total program should provide him with a broad informational and cultural preparation and should help him in developing his reasoning ability.

Certain courses are of value as preparation for legal study. These include courses in communication, including composition, language, and speech, which enable one to express himself well; in the liberal arts, including work in the humanities and social studies, which help one appreciate and perform effectively in his culture and society; in logic, mathematics, and the natural sciences, which develop skills of fact discrimination, analysis, and synthesis; and in accounting.

Pre-law advisors are available to counsel interested students. These advisors are Mr. John A. Paul and Dr. Paul C. Cline.

## Russian and Sino-Soviet Studies

The interdepartmental dual-track program in Russian and Sino-Soviet Studies accommodates two classes of students. The Russian Studies Program is primarily designed for those who plan to do graduate work in this area. The Sino-Soviet Studies Program is designed for those who plan to teach one of the social sciences or history in secondary schools. Both groups of students would be permitted to enroll in either alternative.

The minimum requirements for a major in Russian Studies leading to a B.A. degree is thirty (30) hours; for a major in Sino-Soviet Studies leading to a B.A. or B.S. degree, forty-two (42) hours.

A student may minor in Russian Studies by taking eighteen (18) hours in this area or in Sino-Soviet Studies by taking twenty-four (24) hours.

A complete description of the Russian and Sino-Soviet Studies programs may be found in the first section of the School of Arts and



Sciences in this catalog. Further information may be obtained by contacting Dr. Chong-Kun Yoon, History Department.

### Major in General Social Science

A description of the program for a major in General Social Science is given in the first section of the School of Arts and Sciences in this catalog. For information on this program contact Dr. Arthur R. Hall, Harrison A-125.

### Concentration in Para-Legal Studies

This interdisciplinary program is designed for students who plan to work in law related activities. Students who are majoring in political science, pre-law, business administration, office management, legal secretarial studies, or other related fields may want to acquire skills, knowledge, and experience which will equip them to work in a law office, insurance company, bank, or corporation in a professional capacity requiring some legal training. Students preparing for law school may also want to complete the law related courses in this program, if not the entire legal assistant curriculum. All students choosing this concentration will complete the following requirements as well as the Basic Studies and degree requirements.

Required courses (18 hours): BuAd. 495-496 (Business Law), PoSc. 210 (Introduction to Law and Jurisprudence), PoSc. 495 (Internship in Political Science, Public Administration, or Law), PoSc. 390 (Judicial Process), PoSc. 405 (Administrative Law).

Electives in the core curriculum (at least 6 hours to be selected by the student in consultation with an advisor from among the following): BuAd. 241-242 (Elementary Accounting), BuAd. 310 (Real Estate), BuAd. 316 (Legal Environment of Business), BuAd. 377-378 (Federal Income Tax), BuAd. 489 (Personnel Administration), BEOA. 320 (Office Management), Econ. 324 (Private Enterprise and Public Policy), PoSc. 325 (Constitutional Law), PoSc. 326 (Civil Rights), PoSc. 303 (Environmental Law).

NOTE: The program suggested above may be subject to modification should the State of Virginia and/or the State Bar implement certification requirements for legal assistant and para-legal training programs. It is suggested that students consult one of the program advisors, Dr. Russell Farnen, Dr. Henry Myers, or Mr. John Paul

through the Political Science and Geography Department, Harrison, Room A-103.

### Concentration in Public Administration

This interdisciplinary program is designed for students who are preparing for public service careers in government at various levels, either directly upon graduation or after further graduate training in the field. There is an increasing demand for such specialists since state and local government posts are among the fastest growing positions in the 1970's.

Students who major in Political Science while obtaining a concentration in Public Administration will complete the following requirements, in addition to the Basic Studies and degree requirements: A minimum of 24 credit hours in the interdisciplinary core curriculum and a minimum of 30 credit hours in political science courses. For those students pursuing a major in business administration or economics who desire to complete a concentration in public administration, it is recommended that they take a minimum of 24 credit hours (12 required hours and 12 elective hours) in the core curriculum courses, in addition to completing PoSc. 265, 366, 405, 420, 495; which are also recommended. Business administration and economic majors who have taken elective or required courses listed in the core curriculum as part of their major should select appropriate courses from among these five public administration courses in consultation with their advisors.

Core Curriculum (a minimum of 24 hours as follows: BuAd. 241-244 (Elementary and Managerial Accounting), BuAd. 301 (Computer Applications), Econ. 375 (Public Finance).

Electives in the Core Curriculum (at least 12 hours to be selected by the student in consultation with an advisor from among the following); BuAd. 486 (Behavioral Science and the Business Organization), Econ. 324 (Private Enterprise and the Public Policy), Econ. 325 (Economics of Regulated Industries), Geog. 410 (Urban Geography), Geog. 475 (Introduction to Political Geography), Hist. 234 (United States History [1877 to present]), Phil. 440 (Professional Ethics), Psyc. 215 (Principles of Industrial Psychology), Psyc. 216 (Psychology in Business and Industry), Soci. 265 (Sociology of the Community), Soci. 470 (Urban Sociology), Comm. 329 (Business and Professional Speaking).

Political Science Specialty (a minimum of 30 hours to be taken from below as follows):

Required courses: PoSc. 225 (U.S. Government), PoSc. 230 (International Relations), PoSc. 265 (Public Administration), PoSc. 300 (Political Analysis) or one of the theory courses offered by the Political Science Department (310, 315, 320, 330), PoSc. 305 (Political Research Methods), PoSc. 306 (Applied Political Research), PoSc. 366 (Public Personnel Administration), PoSc. 405 (Administrative Law), PoSc. 420 (Public Management), PoSc. 495 (Internship in Political Science, Public Administration, or Law).

For further information and advisement regarding the public administration concentration, it is suggested that students contact Dr. Russell Farnen or Mr. Vernon Mechtensimer through the Political Science and Geography Department office, Harrison, Room A-103.

### Additional Information

Brochures are available describing the programs in Political Science, Geography, Para-legal Studies, Pre-Law, Public Administration, Russian and Sino-Soviet Studies, and General Social Science.

### Geography

GEOG. 120. *Introduction to Geography*, 3 credits.

A study of the geography of the major cultural regions of the world, giving attention to important individual countries within each cultural region. Pertinent background material on systematic physical and cultural geography is presented at appropriate places in the course.

GEOG. 210. *Physical Geography*, 3 credits.

The physical aspects of man's environment: World distributions of land forms, weather and climate, natural vegetation, soils, and minerals; and the inter-relationships between these factors. Also considered are earth-sun relationships and map projections.

GEOG. 215. *Map Reading and Interpretation*, 3 credits.

An introduction to a wide variety of maps used by the educator, layman, and public official with critical analysis of various cartographic techniques used to represent and present information.

GEOG. 236. *Geography of Anglo-America*, 3 credits.

A geographic study of the regional similarities and differences in United States and Canada. Special attention is given to changes taking place in urban and rural areas.

GEOG. 315. *Field Studies in Geography*, 3 credits.

To expose the student, by field work in Geography, to the operational techniques of observation, interviewing, and collection of data necessary for problem solving in Geography.

GEOG. 335. *Geography of Africa*, 3 credits.

The physical environment, natural resources and human geographical patterns of Africa.

GEOG. 337. *Geography of Latin America*, 3 credits.

Analysis of physical and cultural environment, resource base, and economic development of Latin America. Attention focused on assets and liabilities and geographic foundations of political stability.

GEOG. 345. *Economic Geography*, 3 credits.

A systematic economic-geographic survey of primary, secondary, and tertiary production. Emphasis will be placed on mining, manufacturing, trade and agriculture.

GEOG. 346. *Geography of Europe*, 3 credits.

Geographic assessment of regional and national characteristics of the European nations.

GEOG. 348. *Geography of U.S.S.R.*, 3 credits.

Deals with the natural environment of the Soviet Union and the regional distribution of its basic resources and economic activities.

GEOG. 349. *Geography of East Asia*, 3 credits.

An analysis of the physical and cultural environments of China, Japan, Korea, Mongolia, and the countries of Southeast Asia, and an evaluation of the resources available for economic development.

GEOG. 378. *Geography of the Northern Lands*, 3 credits.

A regional study of the lands north of the Arctic Circle, including Canada, Alaska, Greenland, Scandinavia, and Siberia. Both the physical environment and the cultural and social characteristics will be considered and examined. Some attention will be given to the Antarctic on a comparative basis.

GEOG. 410. *Urban Geography*, 3 credits.

Study of the city in its geographic setting giving perspective of modern urban problems origin and growth of cities and influence of location on city functions. Looks at the internal structure of the cities and the influence of the internal structure on its population groups.

GEOG. 415. *Climatology*, 3 credits.

The systematic study of the atmosphere with emphasis upon such phenomena as temperature, pressure, humidity, air masses and fronts; the occurrence of these phenomena on a global basis; and a detailed survey of the world-wide distribution of climate types.

Geog. 475. *Introduction to Political Geography*, 3 credits.

The study of the state as a feature of the earth's surface, its territory, population, organization, resources. Geographical aspects of conflicts between states. Law of the sea, foreign trade, political geography of rivers. Territorial behavior.

Geog. 490. *Special Studies in Geography*, 1-3 credits each semester.

Designed to give capable students in Geography an opportunity to do independent study under faculty supervision. (Admission only by recommendation of the instructor and permission of the Head of the Department.)

Geog. 499. *Honors*, 6 credits. Year Course.

Geog. 550. *Geography of Contemporary Problem Areas*, 3 credits.

Study of the physical, economic, historical and cultural background of selected regions and nations from a contemporary perspective. Presents an analysis for understanding present day conditions, and the social significance of the events occurring in these areas. In addition to the extensive use of maps in the course, pertinent outside readings will be required.

Geog. 580. *Cultural Geography*, 3 credits.

A study of aspects of culture in this geographic setting: language, religion, political organization, patterns of livelihood, settlements, population growth and movement. The interaction of man and his geographic environment will be stressed.

Geog. 590. *The Tropical World*, 3 credits.

Study of the areas of the world bordering on the Equator, including Central Africa, Southeastern Asia, Central and Northern Latin America and the Pacific. Students will study the physical environment in relationship with the cultural and social characteristics that together make these areas part of the present world political struggle.

## Political Science

PoSc. 110. *Introduction to Political Science*, 3 credits.

Introduction to concepts, organization, and terminology of government. Basic introductory material for the study of political science, including national, state, and local government, international relations, comparative government, constitutional law, and political theory.

PoSc. 210. *Introduction to Law and Jurisprudence*, 3 credits.

A study of the sources, functions, and processes of the American legal system.

PoSc. 225. *United States Government*, 3 credits.

A basic course in the American political system, having for its fundamental purpose the development of responsible citizenship. Detailed coverage will be made of the origin, structure, functions, and current trends of national government. Some comparison is made of the structure and ideologies of American and foreign governments.

PoSc. 226. *State and Local Government*, 3 credits.

A study of state and local government in the United States, with particular focus on Virginia. Emphasis is placed on an understanding of the framework, functions, and problems of state and local (rural and urban) governments, and the responsibilities of the individual citizen.

PoSc. 230. *International Relations*, 3 credits.

A survey of the field of international relations, including consideration of the elements of national power, foreign policy, diplomacy, propaganda, foreign aid, war, international law, and international organization.

PoSc. 240. *Soviet Political System*, 3 credits.

A study of the Soviet Union emphasizing the Communist Party, the governmental structure, and the nature of politics. Also included are aspects of historical background, Communist theory, Soviet foreign policy and other related areas.

PoSc. 250. *Sex and Politics*, 3 credits.

A study of the impact of sex on political power and influence in society, including the legacy of political theory and a survey of political movements, as well as the analysis of political socialization, political behavior as reflected in voting and leadership patterns, and participation in political decision-making bodies.

PoSc. 265. *Public Administration*, 3 credits.

An introductory survey to the principles, functions, and processes of public administration with specific emphasis on the political aspects and environment of bureaucracies, and the how and why of policy-making within an administrative system. Organizational structure, personnel, budgeting, public relations and government values, traditions, and objectives are analyzed. [Not open to students who have previously completed PoSc. 365 (Public Administration).]

PoSc. 300. *Political Analysis*, 3 credits.

A brief introduction to the scientific method as applied to the social sciences, and principal behavioral approaches currently used in political research, such as systems analysis, functional analysis, and decision-making analysis. (Junior standing or permission of instructor and 3 courses in Political Science required.)

PoSc. 303. *Political, Economic, and Social Problems of Environmental Law*, 3 credits.

A background history of environmental protection efforts, followed by a study of modern legal resources and the political and economic problems resulting from environmental regulation; the ultimate effect on the home and the individual.

PoSc. 305. *Political Research Methods*, 3 credits.

Introduction to quantitative research methods and statistical techniques useful for the political and social scientist such as the experimental method, significance tests, content analysis, correlation, scaling, and regression analysis. (Junior standing or permission of instructor and 3 courses in Political Science required.)

PoSc. 306. *Applied Political Research*, 2-3 credits.

Application of research methods introduced in PoSc. 300 and/or 305 to political problem solving. Research project to demonstrate student's capacity to define a research problem, state hypotheses, construct a model and choose appropriate methods to test hypotheses, such as questionnaire design and sampling methods, and write up of results. The seminar method will be used. *Prerequisite*: PoSc. 305.

PoSc. 308. *Current Problems in Political Science*, 2-3 credits.

A study of selected problems in the field of Political Science. Criteria for the selection of the problems will be currency and importance. Course may be repeated once.

PoSc. 310. *Political Theory*, 3 credits.

Emphasis upon selected political thinkers from Machiavelli to Marx with some attention given to prior theorists such as Plato and Aristotle. Among the concepts to be considered are the state, natural law, and sovereignty.

PoSc. 315. *Contemporary Political Thought*, 3 credits.

Ideologies and their impact since 1848. Course will deal with such phenomena as nationalism, Social Darwinism, collectivist theory and practice, development of democratic ideas, and the totalitarianisms of the 20th century. Focus will be an attempt to explain political and social behavior.

PoSc. 320. *Marxist-Leninist Theory*, 3 credits.

A study of Communist theory as set forth by Marx, Engels, and Lenin with an analysis of how this theory has been interpreted, with emphasis on the Soviet Union and Communist China. The international implications of Marxist theory and the Communist-Socialist relationship in theory will also be dealt with.

PoSc. 325. *Constitutional Law*, 3 credits.

A study of the legal aspects of the American democratic system. The development of the Constitution will be explored and case studies used to portray important events and changes.

PoSc. 326. *Civil Rights*, 3 credits.

An examination of the judicial interpretation of civil rights in America with emphasis upon freedom of speech, due process of law, racial discrimination and procedural protections in criminal cases.

PoSc. 330. *American Political Thought*, 2 credits.

A study of the development and significance of political ideas that have influenced American society and government.

PoSc. 332. *Chinese Government and Politics*, 3 credits.

A study of the internal political process and institutions of mainland China. It includes the ideology of Chinese Communism; major political developments since 1949; current trends and problems; the role and functioning of the Party, the Government, the Army, and other leading bodies in the political process.

PoSc. 334. *Chinese Foreign Policy*, 3 credits.

Development, motivation, and characteristics of Peking's foreign relations; study in depth of the Sino-Soviet conflict, United States relations with China, the question of United Nations membership, Chinese military and arms control policies, relations with Taiwan, policies and strategies in Asia and the Third World.

PoSc. 338. *Soviet Foreign Policy*, 3 credits.

An analysis of the historical, ideological, internal and strategic factors which influence the formulation of Soviet foreign policy. Special emphasis is placed on Soviet objectives in the West and in Asia, as well as her role in the U.N.

PoSc. 345. *Comparative Political Systems*, 3 credits.

Comparative analysis of European constitutions, political systems, and governmental processes with major emphasis on the United Kingdom, France, and West Germany, and certain non-western systems.

PoSc. 350. *Governments of Latin America*, 3 credits.

A comparative study of constitutions, governmental institutions, political parties and dynamics, and political issues and trends in most of the states of Central and South America.

PoSc. 360. *Urban Politics*, 3 credits.

A study of the functions and role of local government in urban America with emphasis on the social, economic, and governmental problems of cities and metropolitan areas.

PoSc. 362. *Political Socialization and Behavior*, 3 credits.

An analysis of how pre-adults are inducted into their roles in the political system, the consequences of this process for different political systems including the United States, the growth of divergent political behavior patterns, and the research methods used to determine how the young citizen acquires political attitudes, knowledge, and orientations.

PoSc. 366. (also BuAd., 366) *Public Personnel Administration*, 3 credits.

A survey of basic principles and functions of personnel administration in the public service, including a discussion of the roles of personnel management, recruitment, placement, wage and salary administration, training, retirement, and other personnel functions.

PoSc. 369. *Political Parties and Elections*, 3 credits.

A study of national political parties and elections. Attention is given to the origin and evolution of the major and important minor parties, the nomination and election process, the presidential campaign, the role and practical working of political parties, the influence of public opinion and pressure groups, and the responsibilities of the individual voter.



PoSc. 370. *United States Foreign Policy*, 3 credits.

An investigation of the processes for making foreign policy, the underlying premises influencing specific policies, and the substance of American foreign policy.

PoSc. 380. *The National Executive*, 3 credits.

A study of the present state of the law and the practice of the institution of the American Presidency focusing on the sources, bases and character of the power required by the President for effective executive action. Relationships of the Presidency to foreign affairs, the Congress, the public, the party structure, and the administrative establishment will also be considered. *Prerequisite: PoSc. 225 or permission of instructor.*

PoSc. 385. *The Legislative Process*, 3 credits.

Study of the legislative process will concentrate on the operation of Congress with regard to such matters as its rules and procedure; its relationships to the Presidency, to the bureaucracy, to pressure groups, and to the courts; and a discussion of its current problems. *Prerequisite: PoSc. 225 or permission of instructor.*

PoSc. 390. *The Judicial Process*, 3 credits.

A study of the judicial process will include an examination of judicial decision-making, the organization and jurisdiction of courts, a review of civil and criminal procedures, judicial review, selection and discipline of judges, and the courts' relationship to the executive and legislative branches.

PoSc. 395. *International Law and Organization*, 3 credits.

An introduction to the principles of international law with emphasis on contemporary developments and the limitation of violence in international conflict. A study in depth of the United Nations, its performance and capacities, with lesser attention to other features of international organization.

PoSc. 405. (also BuAd. 405) *Administrative Law*, 3 credits.

Study of the role and nature of administrative law, including procedural requirements and judicial review of administrative actions, and liability of the government and its officials.

PoSc. 420. (also BuAd. 420.) *Public Management*, 3 credits.

Study of the management of public agencies from the executive viewpoint. Management's control and directives for operation of public agencies will be explored, including establishment of goals, policies, organizational structure, and output of services. Case studies will be examined to illustrate administrative behavior and managerial operations in local, regional, state and federal agencies.

PoSc. 430. *Communism in World Affairs*, 3 credits.

A sequence of studies focusing on Communist countries other than the Soviet Union and China, e.g. Eastern European states, Cuba, North Korea; relationships among members of the Communist bloc; Communist policies, strategies, and problems in non-Communist areas. Guest speakers, seminar reports, etc. will contribute to a variety of approaches.

PoSc. 490. *Special Studies in Political Science*, 1-3 credits each semester.

Designed to give capable students in Political Science an opportunity to do independent study under faculty supervision. (Admission only by recommendation of the instructor and permission of the Head of the Department.)

PoSc. 495. *Internship in Political Science, Public Administration, or Law*, 3-6 credits.

Provides students with practical experience (approximately 135 total contact hours) in a legal, political, or public agency. Periodic seminars and student report required. *Prerequisites: Junior or senior standing plus nine hours of Political Science or permission of instructor and department head.*

PoSc. 499. *Honors*, 6 credits. Year Course.

PoSc. 529. *Problems of International Relations*, 3 credits.

An analytical study of international problems dealing with such topics as the United Nations, regionalism, political conflict, international law, nationalism, balance of power, and arms control. Problems may be determined by the exigencies of the contemporary international scene.

PoSc. 540. *Problems of American National Government*, 3 credits.

An intensive survey of national government in the U.S. with primary emphasis on the current problems facing the U.S. Government. Problems to be examined will include those involving the presidency, Congress and the Federal court system.

PoSc. 550. *Problems in State and Local Government*, 3 credits.

Study of the major problems faced by local and state governments. The problems will include political leadership, operation of the courts, police power, fiscal problems, metropolitan areas and others.

# DEPARTMENT

## of Sociology

DR. ROBERT V. GUTHRIE, *Head of the Department*

*Professor* SMITH

*Associate Professors* COUNCIL and STONE

*Assistant Professors* BRADFIELD, STEELE, TURNER, and WHITMER

*Instructors* BEAMER, BOHACHE, MYERS, SHIFFLETT, and WILLARD

The Department of Sociology offers programs for students interested in the study of society and social life. The programs offer a broad general background for careers in government, industry and education and provides the basis for advanced graduate training.

The Department of Sociology offers a major program in Sociology and administers an interdepartmental program in Social Work for those students who seek to enter social service as a career. In addition the Department offers a minor in Sociology and in Anthropology. Students are advised to satisfy the Basic Studies requirements (See pgs. 69-70) in the first years of their college career.

### Sociology

A major in Sociology is available to those students meeting the requirements for a Bachelor of Arts degree or a Bachelor of Science degree.

The minimum requirement for a major in Sociology is thirty (30) semester hours and must include Sociology 139 (Introduction to Sociology); Sociology 300 (Contemporary Sociological Theory); Sociology 310 (Development of Sociological Thought); and Sociology 491 (Sociological Research Methods).

A student may minor in Sociology by completing a minimum of eighteen (18) semester hours. Sociology 139 (Introduction to Sociology) and Sociology 250 (Social Problems); Sociology 300 (Sociological Theory) or Sociology 310 (Development of Sociological Thought) are required.

The major and minor programs with the addition of the following courses meet the Collegiate Professional Certificate requirements for teaching Sociology in the secondary schools.

Students seeking teacher certification in secondary education should take the following courses: Health 200 (Elements of Health Education), History 233 or 234 (United States History), Psychology 233-234 (Human Growth and Development), Education 360 (Foundations of Curriculum), Secondary Education 375 (Methods and Materials in Teaching in the Secondary School—Social Studies), Education 470 (History and Philosophy of Educational Thought), Education 480 (Directed Teaching) and a basic course in Economics. For information regarding certification requirements, the student should consult his advisor.

### Social Work

The interdepartmental major in Social Work leading to the Bachelor of Science degree is designed to prepare graduates of this program for admission to graduate professional schools of social work and for positions in a broad spectrum of social service agencies. The minimum requirement for a major in Social Work is forty-eight (48) semester hours of approved courses.

The core courses in the Social Work curriculum *required* of all majors are: Social Work 287 (Introduction to Social Work); Social Work 290 (Interventionist Methods and Skills); Social Work 330 (Social Casework); Social Work 335 (Policy Development in Human Services); Social Work 350 (Social Group Work); or Social Work 368 (Community Organization). All students are required to successfully complete Social Work Field Placement prior to graduation. Students are encouraged to enroll in Field Placement Social Work 485 (block plan); however, Social Work 480-482 (concurrent plan) can be approved and arranged when individual situations merit such consideration. Students enrolled in Social Work 485 spend eight weeks in an approved social work agency during one semester. Students enrolled in Social Work 480-482 work part-time in an approved social work agency during the entire year.

In addition to the above required courses, Sociology 139 (Introduction to Sociology); Sociology 250 (Social Problems); Sociology 491 (Sociological Research Methods); and Psychology 358 (Abnormal Psychology) are required. A minimum thirteen hours of approved electives

may be selected from the following disciplines and applied toward the major: Anthropology, Economics, Political Science, Psychology, Social Work, Sociology, and Special Education. Students should explore with their faculty advisor areas of individual interest and need in selecting courses which constitute these electives.

### Anthropology

A student may minor in Anthropology by completing a minimum of eighteen (18) semester hours. SoAn. 280 (General Anthropology) and SoAn. 467 (Cultural Anthropology) are required. Students are urged to select SoAn. 284 (Introduction to Folklore), SoAn. 380 (Primitive Societies) and SoAn. 286 (American Folk Culture) in their programs. However, other approved courses for the minor are Soci. 340 (Individual and Social Organization), Soci. 360 (Modern Social Movements), and Geog. 580 (Cultural Geography).

### Description of Courses

#### Anthropology

SoAN. 280. *General Anthropology*, 3 credits.

A survey of general anthropology emphasizing the origin and development of man.

SoAN. 282. *Cultures of Appalachia*, 3 credits.

An overview of Appalachian cultures, patterns of social organization, and problems.

SoAN. 284. *Introduction to Folklore*, 3 credits.

"A survey of primary types of folklore: folk narratives (myths, legends, tales), riddles and proverbs, customs, superstitions and witchcraft, and art with an investigation of the history, problems, and issues of folklore."

SoAN. 286. *American Folk Culture*, 3 credits.

A survey of the material aspects of American folk culture including architecture, folk art and crafts, folk costume and speech.

SoAN. 380. *Primitive Societies*, 3 credits.

A study of the economic, political, religious and kinship organizations in selected primitive societies.

SoAN. 410. *Culture and Personality*, 3 credits.

A comparative study of how individuals and groups come to embody and respond to different cultural and social systems, with emphasis on personality processes in contemporary societies and social classes.

SoAn. 467. *Cultural Anthropology*, 3 credits.

A cross-cultural analysis of pre-literate and literate societies in the contemporary world with consideration of cultural change, ethnocentrism and cultural-relativity. *Prerequisite: SoAn. 280 or 380.*

SoAn. 490. *Special Studies in Anthropology*, 1-3 credits each semester.

This course offers students an opportunity to do independent study under staff supervision. (Admission only by recommendation of the instructor and permission of the Head of the Department.)

SoAn. 494. *Senior Seminar in Anthropology*, 3 credits.

An examination of the complex relationships between theory and practice. Opportunity is provided for students to develop and defend their own theoretical positions in relation to the potential and problems of our society. Limited to seniors majoring in sociology and social work.

## Sociology

Soci. 139. *Introduction to Sociology*, 3 credits.

A general survey of the field of sociology to help the student understand modern complex societies.

Soci. 250. *Social Problems*, 3 credits.

Designed to introduce the student to the nature of social organization. Various social problems may be explored such as crime and delinquency, stratification and poverty and mental illness and family.

Soci. 252. *Population and Human Ecology*, 3 credits.

The rise of population since the industrial revolution and review of the basic demographic principles and the various programs of control and the human interaction with the environment. *Prerequisite: Soci. 139 or permission of the instructor.*

Soci. 254. *Social Stratification*, 3 credits.

A study of the class, caste and power structure of the American society. Stratification studies will be analyzed and compared. *Prerequisite: Soci. 139 or permission of instructor.*

Soci. 265. *Sociology of the Community*, 3 credits.

A survey of community studies with special emphasis on definitions, development and modern community research.

Soci. 300. *Contemporary Sociological Theory*, 3 credits.

An introduction to current schools of sociological theory, systems theory, structural-functional theory, and historical sociology. *Prerequisite: Soci. 139 or permission of the instructor.*

SOCI. 310. *The Development of Sociological Thought*, 3 credits.

A study of major sociological theorists with special emphasis upon those aspects of their work which have shaped modern sociology. *Prerequisite: Soci. 139 or permission of the instructor.*

SOCI. 314. *Sociology of Deviant Behavior*, 3 credits.

An introduction to the sociological analysis of deviant behavior, and the social construction of deviant definitions. *Prerequisites: Soci. 139 or the permission of the instructor.*

SOCI. 320. *Sociology of Religion*, 3 credits.

A sociological analysis of religion: How it influences and is influenced by man's social existence. *Prerequisite: Soci. 139 or permission of the instructor.*

SOCI. 336. *Sociology of Prejudice and Discrimination*, 3 credits.

A study of the causes, consequences, personal and group reactions to prejudice and discrimination using research findings and case studies in various types of majority-minority situations. *Prerequisite: Soci. 139 or permission of the instructor.*

SOCI. 338. *Sociology of the Black American*, 3 credits.

An examination of the social and cultural heritage of Black America with emphasis on the contemporary scene. *Prerequisite: Soci. 139 or the permission of the instructor.*

SOCI. 340. *Individual and Social Organization*, 3 credits.

An introduction to sociological social psychology, examining human development through interaction of social psychological processes, structure and culture. *Prerequisite: Soci. 139 or permission of the instructor.* (Can be counted toward Anthropology minor.)

SOCI. 360. *Modern Social Movements*, 3 credits.

A study of some of the major social movements as agents of social change.

SOCI. 364. *American Sects and Cults*, 3 credits.

Students will examine selected types of sectarian subcultures including communal societies, the Shaker, Hutterites and others. (Can be counted toward Anthropology minor.) *Prerequisite: Soci. 139 or permission of the instructor.*

SOCI. 425. *Criminology*, 3 credits.

A study of the theories of criminal causation; a survey of the types of traditional crime and investigation into white-collar and modern crime in contemporary society.

SOCI. 427. *Juvenile Delinquency*, 3 credits.

A study of youth gangs, deviation and youth culture standards as well as the treatment used. Recent research reports will be emphasized.

Soci. 430. *Penology*, 3 credits.

The history, philosophy, policies and problems of the treatment of violators by the police, courts and correctional institutions.

Soci. 440. *Educational Sociology*, 3 credits.

Analysis of the sociological foundations of education (organization, processes, values, goals, etc.). Emphasis is placed on social climate, groupings, teacher/learner social roles. *Prerequisite: Soci. 139 or permission of the instructor.*

Soci. 470. *Urban Sociology*, 3 credits.

The study of the sociological development of cities and metropolitan areas. *Prerequisite: Soci. 139 or permission of the instructor.*

Soci. 471. *Industrial Sociology*, 3 credits.

This course will stress the role of the individual in the work group including the demands, values and standards of modern industrial plants and the response to same by employees. *Prerequisite: Soci. 139 or permission of the instructor.*

Soci. 473. *The Sociology of Organizations*, 3 credits.

Study of the structure and process of organizations as places of work, education, and recreation as well as agents of or resisters to social change. *Prerequisite: Soci. 139 or permission of the instructor.*

Soci. 476. *The Sociology of the Family*, 3 credits.

The family is studied in its structural aspects. Primary emphasis is upon the husband-wife, parent-child, and in-law relationships. Family behavior is related to occupational structure, religious orientation, educational patterns, and social stratification. *Prerequisite: Soci. 139 or permission of the instructor.*

Soci. 490. *Special Studies in Sociology*, 1-3 credits each semester.

Designed to give capable students in Sociology an opportunity to do independent study under supervision. (Admission only by recommendation of the instructor and permission of the Head of the Department.)

Soci. 491. *Sociological Research Methods*, 3 credits.

A survey of the various research methods, including an introduction to the qualitative and quantitative approaches to studying social phenomena. *Prerequisite: Soci. 139.*

Soci. 493. *Advanced Seminar in Research Methods*, 3 credits.

Critical study of contemporary research findings. Concentration will be in the application and utilization of inferential statistics and the computer in social research. *Prerequisite: Permission of the instructor.*

Soci. 494. *Senior Seminar in Sociology*, 3 credits.

An examination of the complex relationships between theory and practice. Opportunity is provided for students to develop and defend their own theoretical positions in relation to the potential and problems of our society. Limited to seniors majoring in sociology or social work.



## Social Work

SoSW. 287. *Introduction to Social Work*, 3 credits.

An historical overview of the development of the social work profession with emphasis upon the various settings in which social workers practice. The focus will be upon practical experiences designed to enable the student to gain familiarity with the dynamics of the profession.

SoSW. 290. *Interventionist Methods and Skills*, 3 credits.

An overview of the five methods of the social work profession with emphasis upon the integration of methods, advocacy, and the human relations skills needed to adequately utilize any or all methods. *Prerequisite: SoSW. 287 or permission of instructor.*

SoSW. 330. *Social Casework*, 3 credits.

A study of a social work method that emphasizes helping clients identify and understand their personal difficulties to the point of coping and functioning more satisfactorily in their social environment. *Prerequisites: SoSW. 287 and 290.*

SoSW. 335. *Policy Development in Human Services*, 3 credits.

An examination of the social policy making process and structure in the U.S. *Prerequisite: SoSW. 287 or permission of instructor.*

SoSW. 350. *Social Group Work*, 3 credits.

A study using the group approach in meeting human needs. Emphasis will be placed on the role of the group worker. *Prerequisites: SoSW. 287 and SoSW. 290.*

SoSW. 368. *Community Organization*, 3 credits.

This course will offer students an opportunity to study rural and urban communities as a means of understanding social organization at the community level. *Prerequisites: SoSW. 287 and SoSW. 290.*

SoSW. 475. *Poverty and Income Maintenance*, 3 credits.

A study of the condition and impact of poverty and consideration of past, present and future welfare, income maintenance, social and health insurance programs employed to deal with the condition. *Prerequisite: SoSW. 287 or permission of the instructor.*

SoSW. 480. *Social Work Field Placement I (Concurrent Plan)*, 4 credits.

This placement is designed to give students a broad knowledge and field experience within a social work agency. *Prerequisites: SoSW. 330 and either SoSW. 350 or SoSW. 368.*

SoSW. 482. *Social Work Field Placement II (Concurrent Plan)*, 4 credits.

This placement is a continuation of SoSW. 480. *Prerequisites: SoSW. 330, and either SoSW. 350 or SoSW. 368.*

SoSW. 485. *Social Work Field Placement III* (Block Plan), 8 credits.

This course offers students an opportunity to gain a broad knowledge of the basic functions, services, and roles of the agency as related to actual social work practice. Skills related to this placement will be drawn from the methods of casework, group work, community organization, research, and administration. This course or Social Work 480-482 is required of all social work majors. Social Work 485 is a block placement plan. Students electing this option must make advanced arrangements. *Prerequisites: SoSW. 330 and either SoSW. 350 or 368.*

SoSW. 490. *Special Studies in Social Work*, 1-3 credits each semester.

This course is restricted to majors in Social Work. The course provides capable students an opportunity to do independent studies under staff supervision. (Admission by recommendation of the instructor and permission of the Head of the Department.)

SoSW. 494. *Senior Seminar in Social Work*, 3 credits.

An examination of the complex relationships between theory and practice. Opportunity is provided for students to develop and defend their own theoretical positions in relation to the potential and problems of our society. Limited to seniors majoring in sociology and social work.

# SCHOOL OF BUSINESS

DR. BILLY J. HINTON, *Dean*

The goal of the School of Business is to give the graduate a thorough knowledge of business fundamentals and an appreciation of the social, economic, and political environments in which modern man operates.

The School of Business includes the departments of Business Administration-Economics, Business Education-Office Administration, Distributive Education, and Home Economics. The School offers seventeen options in the Departmental and Interdepartmental undergraduate programs leading to the baccalaureate degree. Research and business services are fostered through the Center for Economic Education, The Social Science Research Center, and The Bureau of Business and Economic Research. A wide range of classroom, laboratory, and practicum experiences provide the student with an intelligent direction for life in a complex business oriented society.



# DEPARTMENT

## of Business Administration and Economics

DR. ALGIN B. KING, *Head of the Department*

*Professors* CARRIER, D. HALL, HINTON, KING and MILLS

*Associate Professors* KIPPS, MICKELSEN, PRINCE, VARGHESE and  
WILHELM

*Assistant Professors* HENLEY, MCGOWN, MILLER, G. OLIVAS, RAMSEY  
and SWIFT

*Instructor* BABER

*Lecturer* BRANNER

The Department of Business Administration and Economics has programs leading to the Bachelor of Business Administration degree, the Bachelor of Arts and the Bachelor of Science degrees in Economics.

The Bachelor of Business Administration degree program is designed to prepare students for managerial careers in Business, and, with additional course work offered by the Department of Political Science, for managerial careers in Public Administration.

The B.A. and B.S. degrees in Economics prepare the student for various careers, which require an understanding of the basic economic processes and the economic organizations in an economy.

### CURRICULUM REQUIREMENTS

#### Bachelor of Business Administration

All students majoring in the B.B.A. program must complete the basic studies requirement set forth in the following pages. Basic studies normally are completed during the Freshman and Sophomore years. The only courses in Business Administration that may be taken before the Junior year are Elementary Accounting (6 hrs.) and Principles of Management (3 hrs.).

In addition to the basic studies requirements, all students majoring in the B.B.A. program must complete 33 hours of core requirements as set forth in the following pages. These 33 hour core course requirements are considered to be an essential common body of knowledge, which is requisite for all students majoring in Business Administration, regardless of any additional specialization in one of the sub-discipline areas of Business Administration.

In addition, each student must complete 24 hours of course work elected from one of three majors, Accounting, Management, or Marketing, as set forth in the following pages.

A summary of the *B.B.A. Program Requirements* is shown below:

Basic Studies Requirements .....	41
Additional General Course Requirements .....	6
Core Requirements—B.B.A. ....	33
Major Requirements .....	24
Free Electives .....	24
	<hr/>
Total	128

### Bachelor of Business Administration Degree Program

*Basic Studies Requirements* ..... 41 Hours

<i>Courses</i>	<i>Credit Hours</i>
Art 200 or Music 200, Art in Gen. Culture or Music.....	3
Communication 200, Oral Communication.....	3
Economics 230-235, Prin. of Economics.....	6
English 101-102, Reading & Composition.....	6
History 255-256, History of Civilization.....	6
Literature.....	3
Mathematics 105, Finite Mathematics.....	3
Natural Science.....	8
Physical Education.....	3
	<hr/>
Total	41

Six (6) additional hours consisting of Math. 106 and Psyc. 215 are required of students majoring in Business Administration:

Math. 106 Finite Mathematics .....	3
Psyc. 215 Applied Psychology .....	3
	<hr/>
Total	6

Core Requirements.....33 Hours

<i>Courses</i>	<i>Credit Hours</i>
BuAd. 241-2 Principles of Accounting .....	6
(or)	
BuAd. 241-4 Principles of Accounting (3) & Managerial Accounting .....	(3)
BuAd. 280 Principles of Management .....	3
BuAd. 301 Computer Applications .....	3
BuAd. 303 Quantitative Methods for Business .....	3
BuAd. 316 Legal Environment of Business .....	3
BuAd. 345 Managerial Finance .....	3
BuAd. 380 Principles of Marketing .....	3
BuAd. 390 Business and Economics Statistics .....	3
BuAd. 486 Behavioral Science & the Business Organization .....	3
BuAd. 487 Business Policy .....	3
Total	33

Major Requirements.....24 Hours

ACCOUNTING MAJOR

<i>Courses</i>	<i>Hours</i>
BuAd. 343-344 Intermediate Accounting .....	6
BuAd. 375 Cost Accounting .....	3
BuAd. 377 Federal Income Tax I .....	3
BuAd. 410 Auditing .....	3
BuAd. 445 Advanced Accounting .....	3
BuAd. 496 Business Law II .....	3
Total	21

and one of the following courses:

BuAd. 376 Cost Accounting II .....	3
BuAd. 378 Federal Income Tax II .....	3
BuAd. 415 Automated Accounting .....	3
BuAd. 450 Seminar in Advanced Accounting .....	3
BuAd. 525 Advanced Auditing .....	3
Total	3
Total	24

MANAGEMENT MAJOR

<i>Courses</i>	<i>Hours</i>
BuAd. 480. Production Management .....	3
BuAd. 489. Personnel Management .....	3
BuAd. 491. Business Simulation Analysis .....	3
	—
	9
and any 5 additional courses offered by the Dept. of Bus. Adm./Econ. ....	15
	—
Total	24

MARKETING MAJOR

BuAd. 382. Marketing Research .....	3
BuAd. 386. Transportation & Distribution .....	3
BuAd. 400. Advertising .....	3
BuAd. 485. Marketing Management .....	3
BuAd. 489. Personnel Management .....	3
	—
	15
plus 9 hours of additional courses offered by the Dept. of Bus. Adm./Econ. ....	9
	—
Total	24

**Bachelor of Arts and Bachelor of Science in Economics**

The minimum requirement for a major in economics is thirty-six (36) semester hours in economics. Economics courses required for the major are the following:

Econ. 230-235 Principles of Economics .....	6
Econ. 330-335 Intermediate Economic Theory .....	6
Econ. 470 Stabilization Policies .....	3
Econ. 488 Money and Banking .....	3
BuAd. 390 Business and Economic Statistics .....	3
	—
	21
and any five (5) additional courses offered by the Dept of Bus. Adm./Econ. ....	15
	—
(excluding Econ. 220 (Survey of Economics), Econ. 225 (Contemporary Economics Problems and Issues), and Econ. 240 (The Soviet Economy).	
Total	36

The program is designed to provide the student with an adequate background for advanced work at the graduate level. This program also meets the Collegiate Professional Certificate requirements for teaching Economics in the secondary schools.

## Description of Courses

### Business Administration

BuAd. 241-242. *Elementary Accounting*, 6 credits.

Elementary accounting principles and procedures planned to meet the needs of all accounting majors and others who desire a background in this area. The interpretation of data and the understanding of interrelationships are emphasized. Accounts, procedures, and statements for the single proprietorship, partnership, and corporation are studied. Topics such as internal control procedures, special journals, controlling accounts, inventories, manufacturing, fixed assets, depreciation, and adjusting and closing techniques are included.

BuAd. 241-244. *Managerial Accounting*, 6 credits.

Emphasizes the uses of accounting as a basic tool of management. Includes the fundamental of income statement and balance sheet determination and evaluation, introduction to statement analysis, internal control and budgeting techniques.

BuAd. 270. *Principles of Insurance*, 3 credits.

Designed to aid in understanding fundamentals of insurance with regard to life, fire and casualty, bonding, workmen's compensation and rate systems. Risk management is introduced as a tool of business management.

BuAd. 280. *Principles of Management*, 3 credits.

Designed to provide principles in the areas of business management, decision processes, management functions, business resources and government.

BuAd. 301. *Computer Applications*, 3 credits.

Designed to establish relationships between electronic computer equipment, application, system design, and programming. A strong systems and applications emphasis includes the analysis of computer processing in various media.

BuAd. 303. *Quantitative Methods for Business*, 3 credits.

Designed to acquaint students with decision-making procedures involving marginal analysis, linear and non-linear programming, demand and production functions, input-output, analysis, game theory and decision theory. *Prerequisites: Math. 105 and 106 or equivalent.*

BuAd. 310. *Real Estate*, 3 credits.

Emphasizes industry principles and economic factors influencing the real estate business. Subjects include contracts, deeds, valuation, financing and subdivision development.

BuAd. 316. *Legal Environment of Business*, 3 credits.

The law as a means to social, political, and economic change. The American legal system from the standpoint of its sources and its philosophy, with special emphasis on business relations and the role of government in affecting them.



BuAd. 320. *Safety and Health Management*, 3 credits.

Designed to provide a knowledge of the Occupational Safety and Health Act and other pertinent Federal and State legislation. Topics covered will relate to management's objectives, responsibilities, and organization to properly administer and cost adequate safety and health programs.

BuAd. 343-344. *Intermediate Accounting*, 6 credits.

Topics included in the course are: Financial statements, the accounting process, cash and temporary investments, receivables, inventories, current liabilities, investment in stocks and bonds, funds and miscellaneous investments, plant and equipment, intangibles and special problems in corporation accounting. *Prerequisites: BuAd. 241-242 or BuAd. 241-244.*

BuAd. 345. *Managerial Finance*, 3 credits.

Form of business organizations; corporate structure; financing through securities; sources and management of working capital; administration of income; expansion; combination; reorganization; receivership; and dissolution. *Prerequisite: BuAd. 241 or BuAd. 250.*

BuAd. 366. *Public Personnel Administration*, 3 credits.

For course description, see Political Science 366.

BuAd. 375. *Cost Accounting I*, 3 credits.

An introductory course in cost accounting. It is designed for students who plan careers in accounting or business management and for teachers. The course includes a study of the fundamentals of cost accounting, consideration of cost flow, cost elements, cost classification, cost accounting cycle, voucher system and factory ledger. *Prerequisites: BuAd. 343-344.*

BuAd. 376. *Cost Accounting II*, 3 credits.

Devoted to accounting concepts, analysis, and techniques for proper planning and control of manufacturing operations. The managerial significance of cost behavior and volume-profit relationship is emphasized. *Prerequisite: BuAd. 375.*

BuAd. 377. *Federal Income Tax Accounting I*, 3 credits.

Devoted to a consideration of Federal income taxes. These topics, among others, will be studied; income, exclusions, gain or loss on sales, exchanges, and involuntary conversions, deductions, exemptions, and pay-as-you-go withholdings. An overview is given of social security estate, and the gift taxes levied by the Federal government. *Prerequisites: BuAd. 241-242 or BuAd. 241-244.*

BuAd. 378. *Federal Income Tax Accounting II*, 3 credits.

Devoted to a consideration of income tax problems relating to partnerships, corporations, specially taxed corporations, estates, and trusts. Includes a survey of Federal estate and gift taxes, and a review of IRS Audit procedures. *Prerequisite: BuAd. 377.*

BuAd. 380. *Marketing Fundamentals*, 3 credits.

Deals with fundamentals involved in the marketing process; it is concerned with the functions, institutions and channels of distribution of goods and services from producer to consumer. *Prerequisites: Econ. 230-235.*

BuAd. 382. *Marketing Research*, 3 credits.

Deals with the collection, interpretation, and presentation of marketing information to aid the shaping of marketing objectives, policies and decisions. Includes analytic techniques, methodology and sources of data. *Prerequisite: BuAd. 380.*

BuAd. 386. *Transportation and Distribution*, 3 credits.

A study of the modes of transportation and other functional processes within a physical distribution system. The system's approach to physical distribution is stressed, and elementary quantitative tools of physical distribution management are introduced. *Prerequisite: BuAd. 380.*

BuAd. 387. *Personal Selling and Sales Management*, 3 credits.

Designed to give the student an understanding of many of the aspects of personal selling including preparing for selling, selling techniques, and the role of selling in our society. These activities are also examined from an administrator's point of view through the eyes of the sales manager. *Prerequisite: BuAd. 380.*

BuAd. 390. *Business and Economic Statistics*, 3 credits.

Designed to introduce the student to the probability distributions used in sampling techniques, statistical inference and hypothesis testing; the concepts of confidence limits and correlation analysis; and some of the methods of trend fitting for predictive purpose as employed in Business decisions and Economic research. *Prerequisites: Econ. 230-235.*

BuAd. 400. *Advertising*, 3 credits.

A survey of all forms of advertising; economic aspects of advertising, layout, campaigns, media, and government control. *Prerequisite: BuAd. 380.*

BuAd. 405. *Administrative Law*, 3 credits.

For course description, see PoSc. 405.

BuAd. 410. *Auditing*, 3 credits.

Study of the work of the accountant in investigating, interpreting, and appraising accounting records. *Prerequisites: BuAd. 343-344.*

BuAd. 415. *Automated Accounting (3, 2)*, 3 credits.

Designed for analyzing business systems and the conversion of record keeping to automation with emphasis on forms designing and basic systems communications.

BuAd. 420. *Public Management*, 3 credits.

For course description, see PoSc. 420.

BuAd. 425. *Risk Management*, 3 credits.

Covers the methods of analyzing and dealing with risk—including both insurance and self-insurance methods. Commercial and industrial real estate planning with regard to risks inherent in their acquisition.

BuAd. 440. *Retail Store Management*, 3 credits.

A study of the operation and service activities as functions of store management. Areas of store location and layout, customer service, receiving, marketing, and store protection are stressed. *Prerequisite: BuAd. 280.*

BuAd. 445. *Advanced Accounting*, 3 credits.

Designed to meet the requirements of those persons who would gain an appreciation of the application of fundamental theory to a number of important fields and activities in business. Among the subjects studied are: parent and subsidiary relationships; preparation of consolidated balance sheet, income statement, and surplus statement; and an overview of accounting for partnerships and joint ventures; income measurement in installment sales and consignments; accounting for home office and branch units; and the application of actuarial principles to business and accounting problems. *Prerequisites: BuAd. 343-344.*

BuAd. 450. *Seminar in Advanced Accounting*, 3 credits.

Designed to meet the requirements of but not limited to those persons majoring in accounting who are interested in being candidates for the CPA examination. The presentation of this course will be on a seminar basis covering the following fields: auditing, accounting theory, business law, and problems in various areas of interest to the group. *Prerequisite: BuAd. 445.*

BuAd. 475. *Real Estate Valuation*, 3 credits.

Art and process of real estate valuation. Analysis of economic, social and governmental forces influencing value.

BuAd. 479. *Principles of Investment*, 3 credits.

Theories and practice of investment in a free enterprise economic system. An analysis of stocks, bonds, investment trusts, insurance, real estate, the operation of the stock market and other elements of investment. *Prerequisite: BuAd. 345.*

BuAd. 480. *Production Management*, 3 credits.

Deals with the organization and operation of industrial enterprises. Emphasis given to management of the physical plant and the processes of production. *Prerequisite: BuAd. 280.*

BuAd. 485. *Marketing Management*, 3 credits.

An application of the theories and principles of management and marketing to the solution of practical problems of marketing tasks are emphasized. *Prerequisites: BuAd. 380 and 382.*

BuAd. 486. *Behavioral Science and the Business Organization*, 3 credits.

A study of human behavior and motivation in the business organization. Behavioral science research in administration is discussed and applicability to organizational behavior is treated.

BuAd. 487. *Business Policy*, 3 credits.

Deals with the field of policy making and administration at the various levels of management, including overall company policies and departmental policies. *Prerequisites: BuAd. 280 and senior standing or permission of instructor.*

BuAd. 489. *Personnel Administration*, 3 credits.

A study of employer-employee relationships in business, and industry including personnel policies and methods, selection, placement, training, and promotion of employees, and recent trends in employment practices. *Prerequisite: BuAd. 280.*

BuAd. 490. *Special Studies in Business Administration*, 1-3 credits each semester.

Designed to give capable students in Business Administration an opportunity to do independent study under faculty supervision. (Admission only by recommendation of the instructor and permission of the Head of the Department.)

BuAd. 491. *Business Simulation Analysis*, 3 credits.

An integration of the functional business areas of economics, management, marketing, and finance by simulating the total activities of a business firm. *Prerequisites: BuAd. 301, 303, and 390.*

BuAd. 494. *Business Practicum*, 3-6 credits.

A course to be taken by graduating seniors which would give the student an opportunity to work in and with local industry in order to gain an insight into the real side of modern business.

BuAd. 495. *Business Law I*, 3 credits.

A study of the fundamental principles of law of contracts, sale of goods and commercial paper based on the Uniform Commercial Code. Emphasis is given to the part these play in both personal and business life.

BuAd. 496. *Business Law II*, 3 credits.

A continuation of Business 495, with emphasis on the law of partnerships, corporations, insurance, and government regulations of business.

BuAd. 502. *Advanced Marketing Research and Analysis*, 3 credits.

Study of the role of research in marketing decision-making; the research process; scientific-method; analysis and interpretation of research findings. *Prerequisite: Permission from Head of the Department.*

BuAd. 515. *Financial Statement Analysis*, 3 credits.

A study of the concepts, theories, and principles underlying financial statements, controversial problems in asset valuations and price level changes. *Prerequisite: Permission from Head of the Department.*

BuAD. 524. *Managerial Economic Analysis*, 3 credits.

Analysis of economic forces affecting business management including economic considerations in managerial control, forecasting, and decision-making. *Prerequisite: Permission from Head of the Department.*

BuAD. 525. *Advanced Auditing*, 3 credits.

Provides in-depth study of auditing standards and philosophy. Emphasis is placed on the increasing responsibilities of the public accountant relating to the audit and reports. *Prerequisite: Permission from Head of the Department.*

BuAD. 531. *Seminar in Personnel Management*, 3 credits.

Analysis of day-to-day and long-term industrial and commercial personnel problems. Review of major personnel decisions affecting business enterprises and approaches being recommended for meeting future problems. *Prerequisite: Permission from Head of the Department.*

BuAD. 540. *Collective Bargaining and Labor Relations*, 3 credits.

A comprehensive review of the development and current status of national labor policy. Consideration will also be given to organization of labor unions, analysis of bargaining power, bargaining strategy and tactics of unions and management, and the current economic and social impact of organized labor. Case study method and guest speakers will be included. *Prerequisite: Permission from Head of the Department.*

## Economics

ECON. 220. *Survey of Economics*, 3 credits.

A one-semester course in Economics designed to meet the Virginia state requirements for the study of Economics by elementary education majors. Introduces the concepts and broad Economic principles of national income, fiscal policy and monetary policy of the United States economy. Reviews the economic objectives and impact of labor unions and of competition and monopoly; examines economics of full employment policies and international trade policies. Also reviews the broad economic principles of supply, demand and price and the economy of the firm.

ECON. 225. *Contemporary Economic Problems and Issues*, 3 credits.

The study of contemporary American economic problems and issues of a national and multi-national scope.

ECON. 230-235. *Principles of Economics*, 6 credits.

A study of the principle of the functioning of the economy, the operation of the forces of supply, demand, economic distribution, public and private finance, national income, monetary policy, economic growth and development, monopolistic competition, welfare economics and the economics of international trade.

ECON. 240. *The Soviet Economy*, 3 credits.

A study of the economic principles behind the evolution and operation of the Soviet-type command economy, introduction to the institutional framework, allocation of resources, distribution and consumption, economic growth and development of industry, agriculture, and other sectors of the Soviet economy, review of foreign trade and aid program, and recent economic problems and policies.

ECON. 300. *Resource Economics*, 3 credits.

Economics of resource preservation, control and use with explicit recognition of the general environmental system. Emphasis will be given to land and water utilization, property rights, conservation and public measures to achieve orderly land-use patterns and to improve the quality of the environment. *Prerequisites: Econ. 230-235 or Econ. 220.*

ECON. 314. *Economics of Labor*, 3 credits.

Economic analysis as applied to labor and unions. Attention will be given to wage determination, employment, the collective bargaining process, the labor movement, labor problems and labor-management relations. *Prerequisites: Econ. 230-235.*

ECON. 315 *Economics of Industrial Relations*, 3 credits.

The economics of federal and state regulation of labor unions and their activities; the settlement of industrial disputes, wage determination, regulation of wages and hours, manpower policies, and programs of social protection.

ECON. 324. *Private Enterprise and Public Policy*, 3 credits.

A survey of government antitrust regulation of business in the United States and competing countries. Historical development of regulation, its present scope, its economical and philosophical basis and case studies. *Prerequisites: Econ. 230-235.*

ECON. 325. *Economics of Regulated Industries*, 3 credits.

A survey of the procedures and impact of government rate setting and taxing on regulated industries in light of the various goals which businesses pursue. *Prerequisites: Econ. 230-235.*

ECON. 330. *Intermediate Economic Theory — Price and Distribution*, 3 credits.

Intermediate analysis of the determination of price, distribution in a free enterprise economy. *Prerequisites: Econ. 230-235.*

ECON. 335. *Intermediate Economic Theory — Income and Employment*, 3 credits.

Intermediate level analysis of Keynesian aggregates of supply and demand, study of consumption, saving and the multiplier, probing of the determinants of investment and the accelerator and appraisal of the government's role. *Prerequisites: Econ. 230-235.*

ECON. 352. *History of Economic Thought*, 3 credits.

Major economic thought from early times to the present. The classical literature will be examined and the important ideas and theories will be analyzed and compared. *Prerequisites: Econ. 230-235.*

ECON. 370. *International Trade and Trade Policies*, 3 credits.

An examination of the Classical and Modern theories of international trade; the effects of such trade on the domestic economy; the case for free international trade; barriers to free trade; the rationale and economic impacts of various trade policies and a review of U.S. Commercial policy. *Prerequisites: Econ. 230-235.*

ECON. 375. *Public Finance*, 3 credits.

Introduction to the field of public finance. The major areas to be covered in the course include theories and principles of taxation, government expenditure, public debt and fiscal administration. The interrelationships between federal, state and local finance; the shifting and incidence of tax; the burden of public debt; principles of debt management; and debt management as a stabilization policy tool will also be included. *Prerequisites: Econ. 230-235.*

ECON. 376. *Theory of Public Choice*, 3 credits.

An indepth analysis of the economic theory of the public sector. Social goals and their relationship to political and fiscal institutions will be discussed. Neutrality and efficiency will be emphasized. *Prerequisites: Econ. 220 or 230-235.*

ECON. 380. *Urban and Regional Economics*, 3 credits.

A study of the economic aspects of the urbanization and regional development focusing on physical factors, transportation, communications, housing, planning, environmental problems and demography. *Prerequisites: Econ. 220 or 230-235.*

ECON. 410. *Economic Development*, 3 credits.

A study of the characteristics of under development, theories of economic development and the underlying causes for varying standards of living among the world's people. Considerable time will be spent on studying social and cultural factors that influence economic growth, and their potential affect on the economic progress of the lesser developed countries. *Prerequisites: Econ. 230-235 or Econ. 220 and permission of the instructor.*

ECON. 460. *International Finance and Payments*, 3 credits.

Mechanics and techniques of international finance, exchange markets and financial markets; categories of international financial flows; international financial flows and the balance of payments; international monetary institutions and arrangements and proposals for international monetary reform. *Prerequisites: Econ. 230-235.*

ECON. 470. *Stabilization Policies*, 3 credits.

Examination of the role and scope of Stabilization Policies in a capitalistic economy. Primary emphasis will be given to the macroeconomic problems of cyclical fluctuations in aggregate economic activity, unemployment, price instability, disequilibrium in the balance of payments and inadequate rate of economic growth. Alternative stabilization policies will be identified and evaluated. *Prerequisites: Econ. 335, Econ. 488.*

ECON. 477. *Comparative Economic Systems*, 3 credits.

An examination of the distinguishing characteristics, institutions, and functioning of major economic systems in the world today, with emphasis on the Soviet-type economy. A theoretical and historical introduction to the capitalist and socialist systems is followed by Great Britain, France, West Germany, Sweden, Yugoslavia, the Soviet Union, Communist China, India and Japan. *Prerequisites: Econ. 230-235.*

ECON. 478. *Economic History of the United States*, 3 credits.

A survey of the economic growth and development of the United States from colonial times to the present. *Prerequisites: Econ. 230-235 or Econ. 220 and permission of the instructor.*

ECON. 480. *Senior Seminar in Economics*, 3 credits.

Relates economic theory to contemporary issues. It is designed for the economic major about to graduate, and is intended to prepare him to apply his knowledge of economics to the real world problems he is about to face. Within the economic framework, each student is afforded the opportunity to work on the specific subject of his choice. *Prerequisites: Econ. 230-235.*

ECON. 488. *Money and Banking*, 3 credits.

Deals with the evolution of money and the banking system, the structure and function of banking, the economics of banking, monetary and credit control, and monetary policy of the United States. *Prerequisites: Econ. 230-235.*

ECON. 490. *Special Studies in Economics*, 1-3 credits each semester.

Designed to give capable students in Economics an opportunity to do independent study under faculty supervision. (Admission only by recommendation of the instructor and permission of the Head of the Department.) *Prerequisites: Econ. 230-235.*

ECON. 501. *Economics Seminar: Industry-in-Action*, 3 credits.

Deals with the contemporary American enterprise system. Students will participate in local and extended overnight field trips to major representative industrial plants to examine the operation of our economic system at the production level.

Enrollment will be limited. Because of the overnight field trips, a special non-refundable fee of forty dollars (\$40.00) must be paid in advance to the Head of the Department. This special fee will be in addition to regular registration fees for the course which are payable to the Business Office.



# DEPARTMENT

## of Business Education and Office Administration

DR. Z. S. DICKERSON, JR., *Head of the Department*

*Professors* DICKERSON and STEACALL

*Associate Professors* BURGESS and POWELL

*Assistant Professor* MAYNARD and WALSH

*Instructor* GRAVES

The Department of Business Education and Office Administration offers two options leading to a Bachelor of Science degree. Option I, Business Education, provides courses that permit certification in selected areas of Business Education leading to the Collegiate Professional Certificate. A minimum of forty-five (45) semester hours in business and six (6) semester hours in business education methods is required. Option II, Office Administration, provides specialized majors in Office Administration. A choice of (1) a secretarial major (2) an office management major or (3) a data processing major is provided in the program.

A minor in Business Education and Office Administration consists of eighteen (18) semester hours of required and elective courses. Minors are offered in Data Processing, Secretarial, and Office Management.

Students who have completed courses in typewriting, accounting or shorthand in high school or business college may be admitted to advanced courses in these subjects. In order to meet certification requirements it may be necessary to choose other business courses as substitutes for the courses from which they have been excused.

Students interested in any program offered by the Department of Business Education and Office Administration should consult Dr. Z. S. Dickerson, Jr., HB-9 Harrison Hall Annex.

**Four-Year Program (B.S. Degree) in Business Education  
(128 Credits)**

*Credit  
Hours*

**BASIC STUDIES**

Comm. 200. Oral Communication .....	3
Eng. 101-102. Reading and Composition .....	6
Hist. 255-256. History of Civilization .....	6
Basic Studies in Art or Music 200 .....	3
Eng. 233 or 234. Introduction to Literature .....	3
Math. 105. Finite Mathematics .....	3
Basic Studies in Physical Education .....	3
Basic Studies in Natural Science .....	8
Econ. 230-235. Principles of Economics .....	6

**CORE COURSES**

BEOA. 100. Introduction to Business .....	3
BEOA. 270. Business Machines .....	3
BEOA. 301. Computer Applications .....	3
BEOA. 320. Office Management .....	3
BEOA. 330. Business Communication .....	3
BEOA. 370. Teaching Basic Business Subjects .....	2
BEOA. 470. Teaching Typewriting and Related Subjects .....	2
BuAd. 241-242. Elementary Accounting .....	6
BuAd. 280. Principles of Management .....	3
BuAd. 489 or 495. Personnel Management or Business Law .....	3
Educ. 360. Foundations of Curriculum .....	3
Educ. 470. History and Philosophy of Educational Thought .....	3
Educ. 480. Directed Teaching .....	8
Hist. 233 or 234. U.S. History .....	3
Hth. 200. Elements of Health Education .....	2
Psyc. 233-234. Human Growth and Development .....	6
Math. 106. Finite Mathematics .....	3

**SPECIALIZED REQUIREMENTS**

**GENERAL OFFICE PROCEDURES**

BEOA. 131. Elementary Typewriting .....	3
BEOA. 132. Intermediate Typewriting .....	3
BEOA. 233. Advanced Typewriting .....	3
BEOA. 234. Office Procedures .....	3
BEOA. 372. Teaching Accounting and Data Processing .....	2
BuAd. Accounting Electives .....	6

**STENOGRAPHY**

BEOA. 121. Elementary Shorthand .....	3
BEOA. 122. Intermediate Shorthand .....	3

BEOA. 132. Intermediate Typewriting .....	3
BEOA. 223-224. Advanced Shorthand .....	6
BEOA. 234. Office Procedures .....	3
BEOA. 233. Advanced Typewriting .....	3
BEOA. 472. Teaching Shorthand and Related Courses .....	2

ACCOUNTING — DATA PROCESSING

BEOA. 131. Elementary Typewriting .....	3
BEOA. 340. Unit Record .....	3
BEOA. 350. FORTRAN Programming Language .....	3
BEOA. 372. Teaching Accounting and Data Processing .....	2
BEOA. 410. RPG Programming Language .....	3
BEOA. 420. COBOL Programming Language .....	3
BuAd. Accounting Electives .....	6

**Four-Year Program (B.S. Degree) in Office Administration  
(128 Credits)**

NON-TEACHING

BASIC STUDIES

Comm. 200. Oral Communication .....	3
Eng. 101-102. Reading and Composition .....	6
Hist. 255-256. History of Civilization .....	6
Basic Studies in Art or Music 200 .....	3
Math. 105. Finite Mathematics .....	3
Basic Studies in Physical Science .....	3
Eng. 233 or 234. Introduction to Literature .....	3
Basic Studies in Natural Science .....	8
Econ. 230-235. Principles of Economics .....	6

CORE COURSES

BEOA. 100. Introduction to Business .....	3
BEOA. 131. Elementary Typewriting .....	3
BEOA. 270. Business Machines .....	3
BEOA. 301. Computer Applications .....	3
BEOA. 320. Office Management .....	3
BEOA. 330. Business Communication .....	3
BEOA. 340. Unit Record .....	3
BuAd. 241-242. Elementary Accounting .....	6
BuAd. 280. Principles of Management .....	3
Psyc. 215-216. Applied Psychology: Psychology in Business and Industry or	
231-232. General Psychology .....	6
Math. 106. Finite Mathematics .....	3

OFFICE MANAGEMENT

BEOA. 400. Business Report Writing .....	3
BEOA. 410. RPG Programming Language .....	3
BuAd. 489. Personnel Administration .....	3
BuAd. 495. Business Law I .....	3
Electives (Office Administration) .....	9

SECRETARIAL

BEOA. 122. Elementary Shorthand .....	3
BEOA. 132. Intermediate Typewriting .....	3
BEOA. 223-224. Advanced Shorthand .....	6
BEOA. 378. Dictation and Transcription .....	3
BEOA. 400. Business Report Writing .....	3
BuAd. 495. Business Law I .....	3

DATA PROCESSING

BEOA. 350. FORTRAN Programming Language .....	3
BEOA. 410. RPG Programming Language .....	3
BEOA. 420. COBOL Programming Language .....	3
BEOA. 430. PL/1 Programming Language .....	3
BEOA. 440. Seminar in Programming Language .....	3
BEOA. 450. Systems Analysis .....	3
BEOA. 460. Systems Operations .....	3

**Business Education — Office Administration**

MINORS

A minor in Business Education and Office Administration consists of eighteen (18) hours of required and elective courses.

DATA PROCESSING

BEOA. 100. Introduction to Business .....	3
BEOA. 301. Computer Applications .....	3
BEOA. 340. Unit Record .....	3
Electives chosen from the following: .....	9
BEOA. 350. Business FORTRAN Programming Language .....	3
BEOA. 410. RPG Programming Language .....	3
BEOA. 420. COBOL Programming Language .....	3
BEOA. 430. PL/1 Programming Language .....	3
BEOA. 440. Seminar in Programming Language .....	3
BEOA. 450. Systems Analysis .....	3
BEOA. 460. Systems Operation .....	3

SECRETARIAL

BEOA. 100.	Introduction to Business .....	3
BEOA. 121.	Elementary Shorthand .....	3
BEOA. 122.	Intermediate Shorthand .....	3
BEOA. 131.	Elementary Typewriting .....	3
BEOA. 132.	Intermediate Typewriting .....	3
BEOA. 270.	Business Machines .....	3

OFFICE MANAGEMENT

BEOA. 100.	Introduction to Business .....	3
BEOA. 301.	Computer Applications .....	3
BEOA. 320.	Office Management .....	3
	Electives chosen from the following: .....	9
BEOA. 131.	Elementary Typewriting .....	3
BEOA. 270.	Business Machines .....	3
BEOA. 330.	Business Communication .....	3
BEOA. 340.	Business Report Writing .....	3

Description of Courses

BEOA. 100. *Introduction to Business*, 3 credits.

A general survey of the institution of business, with emphasis on the history of business, the basic forms of business organization, ownership, finance, management, wages, and labor relations.

BEOA. 121. *Elementary Shorthand*, 3 credits.

Intended to give the student a thorough understanding of the principles of Gregg Shorthand.

BEOA. 122. *Intermediate Shorthand*, 3 credits.

Continuation of the principles of Gregg Shorthand. Rapid sight reading of context material and accurate transcript of nonpreviewed dictation at eighty words per minute are required for the completion of the course. *Prerequisite:* BEOA. 121 or one year high school shorthand or the equivalent.

BEOA. 131. *Elementary Typewriting*, 3 credits.

The development of proper typewriting techniques and mastery of the typewriter keyboard with a minimum typewriting speed of thirty words a minute are required for this course.

BEOA. 132. *Intermediate Typewriting*, 3 credits.

A continuation of the development in typewriting correct letter forms, manuscripts, and simple statistical work. A minimum typewriting speed of fifty words a minute is required for completion of this course. *Prerequisite: BEOA. 131 or one year high school typewriting or equivalent.*

BEOA. 223-224. *Advanced Shorthand*, 3 credits.

A complete review of Gregg Shorthand theory, plus additional emphasis on phrasing, enlargement of vocabulary, speed in writing and transcribing. A dictation speed of one hundred words per minute and a transcription rate of at least twenty words per minute are required for completion of the course. *Prerequisites: BEOA. 121-122 or two years high school shorthand or equivalent.*

BEOA. 233. *Advanced Typewriting*, 3 credits.

Increase in speed and accuracy skills. Emphasis is placed on production techniques in the typewriting of business forms, letters, manuscripts, legal documents, and statistical tables. *Prerequisite: BEOA. 132 or two years high school typewriting or equivalent.*

BEOA. 234. *Office Procedures*, 3 credits.

Filing and secretarial office machines. A complete study of the several filing systems as applied to business. Classroom and actual experience in using a variety of composing, duplicating, dictating and transcribing equipment. *Prerequisite: Typewriting.*

BEOA. 270. *Business Machines*, (3, 2), 3 credits.

A development of vocational competency in modern office machines. A program including skills needed to operate the latest business computing machines. Practical business problems are a part of the course.

BEOA. 300. *Statistical Calculating Machines* (2, 1), 2 credits.

Development of skills in operating figuring machines by the 10-key touch system. Practical applications, solving business problems, and statistical procedures on the printing and electronic calculators will be emphasized. Recommended for students where course work involves statistical calculations.

BEOA. 301. *Computer Applications*, 3 credits.

Establishes relationships between electronic computer equipment, applications, system design, and programming. A strong systems and applications emphasis includes the analysis of computer processing in various media.

BEOA. 320. *Office Management*, 3 credits.

Problems concerned with planning and installing office methods and systems; effective correspondence procedures; preparation of reports; office supervision and control.

BEOA. 330. *Business Communication*, 3 credits.

Development of the principles of effective business communications through the composition of business letters (application, credit, adjustment, collection, sales, promotional letters, and routine business correspondence), oral and written business reports, and dictation. Emphasis is placed on composition, arrangement, style, spelling, and positive writing. *Prerequisites: Eng. 101-102.*

BEOA. 340. *Unit Record Data Processing* (3, Open Lab), 3 credits.

Instructions and hands-on laboratory experience with unit record data processing equipment. A transition is made from unit record hardware to electronic computer hardware. The BASIC programming language is introduced. *Prerequisite: BEOA. or BuAd. 301 or equivalent.*

BEOA. 350. *Business FORTRAN Programming Language* (3, Open Lab), 3 credits.

Instruction and actual experience in writing programs, debugging, and machine operation for the FORTRAN IV programming language oriented toward business applications. *Prerequisite: BEOA. or BuAd. 301, or equivalent.*

BEOA. 370. *Teaching Basic Business Subjects*, 2 credits.

Development of classroom teaching skills appropriate to applying the principles of theoretical teaching models to teaching basic business and related subjects.

BEOA. 372. *Teaching Accounting and Data Processing*, 2 credits.

Development of classroom teaching skills appropriate to applying the principles of theoretical teaching models to teaching accounting, recordkeeping, unit record processing, computer processing, and computer programming.

BEOA. 378. *Dictation and Transcription*, 3 credits.

Designed to give the student advanced training in both typewriting and shorthand. Opportunity is provided for experience in taking rapid dictation, in transcribing, and in improving typewriting speed and accuracy, and the ability to work with applied typewriting problems.

BEOA. 400. *Business Report Writing*, 3 credits.

Techniques, principles, and standards of organized business report preparation and presentation. Emphasis is placed upon clarity, correctness, and effectiveness in realistic problem solving through formal and informal reports. A study of collecting, organizing, constructing, analyzing, interpreting, and presenting information through various communication media is made.

BEOA. 410. *RPG Programming Language* (3, Open Lab), 3 credits.

Instruction and actual experience in writing programs, debugging, and machine operation for the Report Program Generator (RPG) programming language oriented toward business applications. *Prerequisite: BEOA. or BuAd. 301, or equivalent.*

BEOA. 420. *COBOL Programming Language* (3, Open Lab), 3 credits.

Instruction and actual experience in writing programs, debugging, and machine operation for the Common Business Oriented Language (COBOL).

BEOA. 430. *PL/I Programming Language* (3, Open Lab), 3 credits.

Instruction and actual experience in writing programs, debugging, and machine operation for the PL/I programming language oriented toward business applications. *Prerequisite: BEOA. or BuAd. 301, or equivalent.*

BEOA. 440. *Seminar in Programming Languages* (3, Open Lab), 3 credits.

Includes complete review of business programming languages with problems using multiple-language techniques. The BASIC programming language and the Punched Card Utility Language (PCU) multi-function card machine language will be introduced. Students will write and process programs in BASIC and PCU. *Prerequisite: A minimum of two business programming languages.*

BEOA. 450. *Systems Analysis*, 3 credits.

Diagnosing the flow of work through the data processing cycle.

BEOA. 460. *Systems Operation*, 3 credits.

Organization and management of a data processing center.

BEOA. 470. *Teaching Typewriting and Related Courses*, 2 credits.

Development of classroom teaching skills appropriate to applying the principles of theoretical teaching models to teaching psychomotor skills in typewriting and related subjects.

BEOA. 472. *Teaching Shorthand and Related Courses*, 2 credits.

Development of classroom teaching skills appropriate to applying the principles of theoretical teaching models to teaching psychomotor skills in shorthand and related subjects.

BEOA. 486. *Post-Student Teaching Seminar*, 1-3 credits.

Analysis of student teaching performance to develop professional teaching objectives for further student growth. Includes the development of specific instructional competencies based on diagnosed needs or to develop curricular materials for teaching.

BEOA. 490. *Independent Study in Business Education*, 1-3 credits each semester.

Designed to give capable students an opportunity to do independent study or research on problems in business education. The study or research must be approved by the Head of the Department.

BEOA. 501. *Workshops in Business Education* (Summer only), 2 or 3 credits.

Comprehensive workshops in areas of business education to provide the latest methods of teacher education through in-service education.

BEOA. 505. *Seminar in Business Education*, 3 credits.

A seminar studying the relationship of business education to business and industry to enable the teacher to obtain a better understanding of the free enterprise system. Field trips, consultants, and case studies are essential parts of the course.

BEOA. 540. *Seminar in Automated Data Processing*, 3 credits.

Basic understanding of data processing, including extensive readings in the entire field. Laboratory emphasis on the operation of a unit record installation.



# DEPARTMENT

## of Distributive Education

The Department of Distributive Education offers a four-year program in Distributive Education leading to a Bachelor of Science degree and the Collegiate Professional Certificate.

The program is designed to prepare students as teachers of Distributive Education for the secondary schools of Virginia, or to enter the fields of Merchandising, Management and Marketing.

### Four-Year Program (B.S. Degree) in Distributive Education (128 Credits)

	<i>Credit Hours</i>
BASIC STUDIES	
Eng. 101-102. Reading and Composition .....	6
Hist. 255-256. History of Civilization .....	6
Basic Studies in Art or Music 200 .....	3
Math. 105. Finite Mathematics .....	3
Basic Studies in Physical Education .....	3
Comm. 200. Oral Communication .....	3
Basic Studies in Natural Science .....	8
Hth. 200. Elements of Health Education .....	2
Electives .....	20
CORE COURSES	
DE. 340. Organization and Administration of Distributive Education .....	3
DE. 350. Teachings of Coordination in Distributive Education .....	3
DE. 370. Methods and Materials in Teaching Distributive Education .....	3
DE. 470. Organizing and Teaching Adult Distributive Education .....	3
DE. 475. Visual Merchandising and Communication Design .....	3
DE. 485. Directed Occupational Experience .....	3
BuAd. 280. Principles of Management .....	3
BuAd. 380. Marketing Fundamentals .....	3
BuAd. 387. Personal Selling and Sales Management .....	3
BuAd. 440. Retail Store Management .....	3
BEOA. 100. Introduction to Business .....	3
BEOA. 301. Computer Applications .....	3
BEOA. 330. Business Communication .....	3
Econ. 230-235. Principles of Economics .....	6
Educ. 360. Foundations of Curriculum .....	3
Educ. 470. History and Philosophy of Educational Thought .....	3
Educ. 480. Directed Teaching (Distributive Education) .....	8
Hist. 233 or 234. U. S. History .....	3
Psyc. 233-234. Human Growth and Development .....	6
Eng. 233 or 234. Introduction to Literature .....	3
Math. 106. Finite Mathematics .....	3

## Description of Courses

DE. 340. *Organization and Administration of Distributive Education*, 3 credits.

Developments in vocational education and federal legislation effecting the field; organization and history of distributive education; objectives of distributive education in terms of philosophy of education; overview of program operation and curriculum.

DE. 350. *Techniques of Coordination in Distributive Education*, 3 credits.

Selecting and developing training stations; placement of students and assisting job adjustment. Observation and field work in coordination of activities, guidance, functions, DECA sponsorships, and public relations methods.

DE. 370. *Methods and Materials in Teaching Distributive Education*, 3 credits.

The principles of individual and group methods, as applied to the teaching of distribution to high school students and adults; preparation of lesson plans; demonstration teaching; vocational approach in relating student's training to classroom theory; and classroom theory; and classroom management and procedures.

DE. 470. *Distributive Education Adult Program*, 3 credits.

The place of continuing education is the total responsibilities of the teacher-coordinator; planning, organizing, promoting, administering, and evaluating the adult program; selection and training of adult instructors. Observation and experience in adult distributive education classes in an assigned Virginia community.

DE. 475. *Visual Merchandising and Communication Design*, 3 credits.

An in-depth study of selected Visual Communications concepts and practices as applied to the principles of display used in retail stores and other distributive business.

DE. 485. *Directed Occupational Experience*, (Summer) 3 credits.

Minimum of 2 months of full-time work. Student must be employed in acceptable distributive occupations and have permission of the Head of the Department of Distributive Education. In the summer prior to the senior year, the student is employed in sales or sales-supporting activities and completes a term workbook describing all major phases of the distributive organization providing the experience. The experience is supervised by the College and a duty analysis and evaluation of the experience is required.

# DEPARTMENT

## of Home Economics

DR. DOROTHY ROWE, *Head of the Department*

*Professors* M. CHRISTIANSEN, J. KILPATRICK, and ROWE

*Associate Professors* EMERSON and SAADATMAND

*Assistant Professor* J. SHAFER

*Instructors* WINSTON and YAHNKE

The Home Economics Department provides learning situations to which the individual can strive for self-actualization in order to perform at an optimal level. The primary purpose of the department is to offer programs which lead to professions serving homes, families, and the community. Although the Home Economics Department has traditionally educated vocational Home Economics teachers for the public schools and dietitians for hospital dietetics and other types of quantity food service, the expanded mission of the department will further educate teachers for occupational education in the vocational program, and will educate dietitians to fill the multi-roles in food service and health care needs. The curriculum in General Home Economics provides the student with a broad base of Home Economics knowledge and skills along with a concentration of study in one of several areas which prepare for entry level positions in dress design, day care, extension service, food research, interior design, merchandising, communications in Home Economics, and Home Economics in Business.

Majors are offered in vocational home economics education, dietetics, and general home economics.

The vocational home economics major meets the requirements established by the Vocational Division of the United States Office of Education and the standards set by the State Department of Education.

The major in dietetics meets the academic requirements set by the American Dietetic Association. Graduates are eligible for appointment to dietetic internships approved by the American Dietetic Association.

With careful planning, a double major in several areas of home economics can be accomplished.

The minimum requirement for a minor in Home Economics is eighteen (18) semester hours including the following required courses: Home Economics 320 (Consumer Economics) and Home Economics 330 (Family Relations).

Students interested in a program in the Department of Home Economics should consult Dr. Dorothy Rowe, 210 Moody Hall.

### Four-Year Program (B.S. Degree) for a Major in Home Economics Education (128 Credits)

#### FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Bio. 100. The Spectrum of Life .....	4	0	0
Chem. 110. General Chemistry .....	0	0	4
Eng. 101-102. Reading and Composition .....	3	3	3
Hth. 200. Elements of Health Education .....	0	0	2
HE. 133. The Contemporary Family .....	3	3	0
HE. 180. Elementary Nutrition .....	0	0	3
Soci. 139. Introduction to Sociology (or Soci. 250. Social Problems) .....	3	3	0
Basic Studies Mathematics .....	3	3	3
Basic Studies Physical Education .....	0	0	1
	—	—	—
	16	16	16

#### SOPHOMORE YEAR

Comm. 200. Oral Communication .....	0	0	3
Econ. 220. Survey of Economics (or Econ. 230. Principles of Economics) .....	0	0	3
Eng. 233 or 234. Introduction to Literature .....	3	3	0
Hist. 255-256. History of Civilization .....	3	3	3
HE. 140. Foods .....	3	3	0
HE. 210. Clothing Selection and Construction .....	0	0	3
Psyc. 233-234. Human Growth and Development .....	3	3	3
Basic Studies Art 200 or Music 200 .....	3	3	0
Basic Studies Physical Education .....	1	1	1
	—	—	—
	16	16	16

JUNIOR YEAR

Art 240. Interior Design .....	3	0
Educ. 360. Foundations of Curriculum .....	3	0
Hist. 233 or 234. United States History .....	3	0
HE. 290. Textiles .....	0	3
HE. 300. Child Development .....	0	3
HE. 320. Consumer Economics .....	0	2
HE. 330. Family Relations .....	3	0
HE. 355. Equipment and Physical Science in the Home .....	0	4
HE. 370. Personal and Family Finances .....	0	2
HE. 475. Management of Personal and Family Resources .....	2	0
HE. 303. Home Economics Education .....	3	0
Electives .....	0	2
	17	16

SENIOR YEAR

Educ. 470. History and Philosophy of Educational Thought ....	0	3
HE. 310. Tailoring Techniques (or HE. 410. Flat Pattern Design and Construction) .....	3	0
HE. 380. Advanced Nutrition (or HE. 446. Experimental Foods) .....	3	0
HE. 450. Family Housing .....	2	0
HE. 470. Home Management .....	3	0
HE. 400. Vocational Home Economics .....	0	3
HE. 404. Home Economics in Occupational Training .....	0	3
HE. 480. Directed Teaching in Home Economics .....	0	8
Electives .....	3	0
	14	17

**Four-Year Program (B.S. Degree) for a Major in Dietetics  
(128 Credits)**

FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Bio. 100. The Spectrum of Life .....	4	0	0
Chem. 101-102. General Chemistry .....	4	4	4
Eng. 101-102. Reading and Composition .....	3	3	3
HE. 140. Foods .....	0	3	3
HE. 180. Elementary Nutrition .....	3	0	0
Soci. 139. Introduction to Sociology (or Soci. 250. Social Problems) .....	0	3	3
Basic Studies Mathematics .....	3	3	3
Basic Studies Physical Education .....	0	1	1
	17	17	17

SOPHOMORE YEAR

Basic Studies Art 200 or Mus. 200 .....	3	0
Chem. 237. Organic Chemistry .....	4	0
Chem. 238. Biochemistry .....	0	4
Comm. 200. Oral Communication .....	0	3
Econ. 220. Survey of Economics (or Econ. 230. Principles of Economics) .....	0	3
Eng. 233 or 234. Introduction to Literature .....	3	0
Hist. 255-256. History of Civilization .....	3	3
Psyc. 379. Educational Psychology .....	3	0
Basic Studies Physical Education .....	1	1
Electives .....	0	3
	—	—
	17	17

JUNIOR YEAR

Bio. 270. Human Physiology .....	3	0
Bio. 280. General Microbiology .....	0	4
HE. 300. Child Development .....	3	0
HE. 320. Consumer Economics .....	0	2
HE. 355. Equipment and Physical Science in the Home .....	4	0
HE. 380. Advanced Nutrition .....	3	0
HE. 446. Experimental Foods .....	0	3
HE. 475. Management in Relation to Personal and Family Resources .....	0	2
Electives .....	2	4
	—	—
	15	15

SENIOR YEAR

BuAd. 489. Personnel Administration .....	3	0
HE. 330. Family Relations .....	0	3
HE. 363. Quantity Food Production and Service .....	0	3
HE. 365. Quantity Food Purchasing .....	3	0
HE. 367. Space Allocation, Design, and Layout of Modern Food and Lodging Facilities .....	3	0
HE. 465. Institution Organization and Management .....	3	0
HE. 470. Home Management .....	0	3
HE. 484. Diet Therapy .....	0	3
Electives .....	3	3
	—	—
	15	15

## Four-Year Program (B.S. Degree) for a Major in General Home Economics (128 Credits)

### FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Bio. 100. The Spectrum of Life .....	0	4	0
Chem. 110. General Chemistry .....	4	0	0
Comm. 200. Oral Communication .....	3	0	0
Eng. 101-102. Reading and Composition .....	3	3	3
HE. 140. Foods .....	0	3	0
HE. 180. Elementary Nutrition .....	3	0	0
Soci. 139. Introduction to Sociology (or Soci. 250. Social Problems) .....	0	3	3
Basic Studies Mathematics .....	3	3	3
Basic Studies Physical Education .....	0	1	1
	—	16	17

### SOPHOMORE YEAR

Art 240. Interior Design .....	0	3	0
Econ. 220. Survey of Economics (or Econ. 230. Principles of Economics) .....	3	0	0
Eng. 233 or 234. Introduction to Literature .....	0	3	3
Hist. 255-256. History of Civilization .....	3	3	3
HE. 210. Clothing Selection and Construction .....	0	3	0
HE. 290. Textiles .....	3	0	0
Psyc. 231-232. General Psychology .....	3	3	3
Basic Studies Art or Music 200 .....	3	0	0
Basic Studies Physical Education .....	1	1	1
	—	16	16

### Option: Home Economics in Business (Utilities)

#### JUNIOR YEAR

BuAd. 380. Marketing Fundamentals .....	3	0	0
Comm. 329. Business and Professional Speaking .....	3	0	0
HE. 300. Child Development .....	0	3	3
HE. 320. Consumer Economics .....	0	2	2
HE. 343. Demonstration Foods .....	3	0	0
HE. 355. Equipment and Physical Science in the Home .....	0	4	4
Electives .....	6	6	6
	—	15	15

SENIOR YEAR

BuAd. 387. Personal Selling and Sales Management .....	3	0
Educ. 487. The Use of Television in Education .....	3	0
HE. 330. Family Relations .....	0	3
HE. 370. Personal and Family Finance .....	0	2
HE. 450. Family Housing .....	2	0
HE. 470. Home Management .....	0	3
HE. 475. Management of Personal and Family Resources ....	2	0
HE. 490. Special Study: Practicum .....	0	3
Electives .....	6	6
	<hr/>	<hr/>
	16	17

Option: Communication Arts in Home Economics

JUNIOR YEAR

*Credits per Semester:*      1st      2nd

Comm. 271. Introduction to Radio and Television .....	3	0
Comm. 366. Radio and Television Announcing .....	0	3
Eng. 314. Introduction to Mass Communications .....	3	0
HE. 300. Child Development .....	0	3
HE. 320. Consumer Economics .....	0	2
HE. 343. Demonstration Foods .....	3	0
HE. 355. Equipment and Physical Science in the Home .....	4	0
Electives .....	3	8
	<hr/>	<hr/>
	16	16

SENIOR YEAR

Comm. 329. Business and Professional Speaking .....	3	0
Comm. 372. Television Production .....	0	3
Eng. 315. News Writing .....	3	0
Eng. 316. News Editing .....	0	3
HE. 330. Family Relations .....	0	3
HE. 370. Personal and Family Finance .....	0	2
HE. 450. Family Housing .....	2	0
HE. 470. Home Management .....	3	0
HE. 475. Management of Personal and Family Resources ....	2	0
Electives .....	3	4
	<hr/>	<hr/>
	16	15



## Option: Day Care Centers

### SOPHOMORE YEAR

	<i>Credits per Semester:</i>	
	<i>1st</i>	<i>2nd</i>
Substitute Psyc. 232-234 for Psyc. 231-232.		
Substitute HE. 133 for Art 240.		

### JUNIOR YEAR

Art 240. Interior Design .....	3	0
Art 310. Art Activities in the Elementary School .....	0	3
HE. 300. Child Development .....	3	0
HE. 320. Consumer Economics .....	0	2
HE. 355. Equipment and Physical Science in the Home .....	4	0
HE. 384. Child Nutrition .....	0	3
LS. 240. Children's Literature .....	3	0
Mus. 375. Music for Children .....	0	3
Electives .....	3	4
	<hr/>	<hr/>
	16	15

### SENIOR YEAR

HE. 330. Family Relations .....	0	3
HE. 370. Personal and Family Finance .....	0	2
HE. 405. Observations in Infant Development .....	0	3
HE. 450. Family Housing .....	2	0
HE. 470. Home Management .....	0	3
HE. 475. Management of Personal and Family Resources .....	2	0
PE. 381. Activities for Children .....	0	1
Psyc. 369. Psychology in Early Childhood .....	3	0
SpEd. 365. The Culturally Disadvantaged .....	3	0
Electives .....	6	4
	<hr/>	<hr/>
	16	16

## Option: Dress Design

### JUNIOR YEAR

	<i>Credits per Semester:</i>	
	<i>1st</i>	<i>2nd</i>
Art 140. Design .....	3	0
Art 150. Drawing .....	0	3
HE. 300. Child Development .....	0	3
HE. 310. Tailoring Techniques .....	3	0
HE. 320. Consumer Economics .....	0	2
HE. 355. Equipment and Physical Science in the Home .....	4	0
HE. 410. Flat Pattern Design and Construction .....	0	3
Electives .....	6	5
	<hr/>	<hr/>
	16	16

SENIOR YEAR

Art 206. Art History: Renaissance Thru Modern Art .....	3	0
BuAd. 380. Marketing Fundamentals .....	3	0
HE. 330. Family Relations .....	0	3
HE. 370. Personal and Family Finance .....	0	2
HE. 450. Family Housing .....	2	0
HE. 470. Home Management .....	0	3
HE. 475. Management of Personal and Family Resources ....	2	0
HE. 490. Special Study: Advanced Clothing Construction and Design .....	0	3
Electives .....	6	4
	16	15

**Option: Extension Service**

JUNIOR YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
HE. 300. Child Development .....		0	3
HE. 320. Consumer Economics .....		0	2
HE. 343. Demonstration Foods .....		3	0
HE. 350. Related Arts in the Home .....		0	3
HE. 355. Equipment and Physical Science in the Home .....		4	0
HE. 303. Home Economics Education.....		3	0
Electives .....		5	8
		15	16

SENIOR YEAR

Educ. 487. Use of T.V. in Education .....	3	0
HE. 330. Family Relations .....	0	3
HE. 370. Personal and Family Finance .....	0	2
HE. 450. Family Housing .....	2	0
HE. 470. Home Management .....	0	3
HE. 475. Management of Personal and Family Resources ....	2	0
HE. 490. Special Study: Practicum .....	0	3
SpEd. 365. The Culturally Disadvantaged .....	3	0
Electives .....	6	5
	16	16

## Option: Food Research (B.S. Degree—128 Credits)

### FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Bio. 100. General Biology .....	4	4	0
Chem. 101-102. General Chemistry .....	4	4	4
Comm. 200. Oral Communication .....	0	0	3
Eng. 101-102. Reading and Composition .....	3	3	3
HE. 140. Foods .....	0	0	3
HE. 180. Elementary Nutrition .....	3	3	0
Basic Studies Mathematics .....	3	3	3
Basic Studies Physical Education .....	0	0	1
	<hr/>	<hr/>	<hr/>
	17	17	17

### SOPHOMORE YEAR

Chem. 237. Organic Chemistry .....	4	4	0
Chem. 238. Biochemistry .....	0	0	4
Econ. 220. Survey of Economics (or Econ. 230. Principles of Economics) .....	0	0	3
Eng. 233 or 234. Introduction to Literature .....	0	0	3
Hist. 255-256. History of Civilization .....	3	3	3
HE. 380. Advanced Nutrition .....	3	3	0
Psyc. 379. Educational Psychology .....	3	3	0
Basic Studies Art 200 or Mus. 200 .....	3	3	0
Basic Studies Physical Education .....	1	1	1
Electives .....	0	0	3
	<hr/>	<hr/>	<hr/>
	17	17	17

### JUNIOR YEAR

Chem. 356. Analytical Chemistry .....	3	3	0
HE. 300. Child Development .....	0	0	3
HE. 320. Consumer Economics .....	0	0	2
HE. 355. Equipment and Physical Science in the Home .....	4	4	0
HE. 466. Experimental Foods .....	0	0	3
HE. 445. Advanced Foods .....	3	3	0
Electives .....	5	5	4
	<hr/>	<hr/>	<hr/>
	15	15	12

SENIOR YEAR

Bio. 280. General Microbiology .....	4	0
HE. 330. Family Relations .....	0	3
HE. 370. Personal and Family Finance .....	0	2
HE. 450. Family Housing .....	2	0
HE. 470. Home Management .....	0	3
HE. 475. Management of Personal and Family Resources ....	2	0
HE. 490. Special Study: Food Research .....	3	0
Food Microbiology .....	0	3
Electives .....	4	4
	<hr/>	<hr/>
	15	15

Option: Interior Design

JUNIOR YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Art 121. Weaving and Textile Design .....	3	0	
Art 140. Design .....	3	0	
Art 150. Drawing .....	0	3	
BEOA. 330. Business Communication (or BEOA. 400. Business Report Writing) .....	3	0	
HE. 300. Child Development .....	0	3	
HE. 320. Consumer Economics .....	0	2	
HE. 355. Equipment and Physical Science in the Home .....	0	4	
Electives .....	6	4	
	<hr/>	<hr/>	
	15	16	

SENIOR YEAR

Art 206. Art History: Renaissance Thru Modern Art .....	3	0
BuAd. 489. Personnel Administration .....	3	0
HE. 330. Family Relations .....	0	3
HE. 350. Related Arts in the Home .....	0	3
HE. 370. Personal and Family Finance .....	0	2
HE. 450. Family Housing .....	2	0
HE. 470. Home Management .....	0	3
HE. 475. Management of Personal and Family Resources ....	2	0
HE. 490. Special Study: Practicum .....	0	3
Electives .....	6	2
	<hr/>	<hr/>
	16	16

## Option: Merchandising

### JUNIOR YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
BuAd. 380. Marketing Fundamentals .....	3	0	0
BuAd. 400. Advertising .....	3	0	0
BuAd. 440. Retail Store Management .....	0	3	3
BEOA. 330. Business Communication .....	3	0	0
HE. 300. Child Development .....	0	3	3
HE. 320. Consumer Economics .....	0	2	2
HE. 355. Equipment and Physical Science in the Home .....	4	0	0
Electives .....	3	7	7
	—	16	15

### SENIOR YEAR

BuAd. 387. Personal Selling and Sales Management .....	3	0	0
BuAd. 489. Personnel Administration .....	3	0	0
BuAd. 495. Business Law I .....	3	0	0
HE. 330. Family Relations .....	0	3	3
HE. 370. Personal and Family Finance .....	0	2	2
HE. 450. Family Housing .....	2	0	0
HE. 470. Home Management .....	0	3	3
HE. 475. Management of Personal and Family Resources .....	2	0	0
HE. 494. Practicum in Merchandising .....	0	8	8
Electives .....	3	0	0
	—	16	16

### Four-Year Program (B.S. Degree) for a Major in Hotel-Restaurant Management (128 Credits)

The School of Business offers an Inter-departmental Program involving the Department of Business Administration and Economics, the Department of Business Education and Office Administration and the Department of Home Economics. The student should complete the Basic Studies courses, fill B.S. Degree and major requirements, and complete one of the two options depending upon his interest in Restaurant Management or Hotel-Motel Management.

Upon completion of this program, the graduate is qualified for positions in restaurants, hospitals, institutions, college food service, hotels, motels, private clubs, travel operations, airlines, steamship lines, and recreation centers.

BASIC STUDIES

*Credit  
Hours*

Bio. 100. Spectrum of Life .....	4
Chem. 110. General Chemistry .....	4
Econ. 230. Principles of Economics .....	3
Eng. 101-102. Reading and Composition .....	6
Hist. 255-256. History of Civilization .....	6
Soc. 139. Introduction to Sociology (or Soc. 250—Social Problems) .....	3
Spch. 200. Oral Communication .....	3
Basic Studies Art or Music .....	3
Basic Studies Literature .....	3
Basic Studies Physical Education .....	3
Math. 105. Finite Mathematics .....	3
	—
	41

ADDITIONAL REQUIREMENTS FOR B.S. DEGREE

Bio. 280. General Microbiology .....	4
Math. 106. Finite Mathematics .....	3
	—
	7

MAJOR REQUIREMENTS

BEOA. 300. Statistical Calculating Machines .....	3
BEOA. 301. Computer Applications .....	3
BEOA. 330. Business Communication (or BEOA. 400—Business Report Writing) .....	3
BuAd. 241-242. Elementary Accounting (or BuAd. 241-242— Managerial Accounting) .....	6
BuAd. 280. Principles of Management .....	3
BuAd. 316. Legal Environment of Business .....	3
BuAd. 486. Behavioral Science and the Business Organization .....	3
BuAd. 489. Personnel Administration .....	3
Econ. 235. Principles of Economics .....	3
HE. 140. Foods .....	3
HE. 180. Elementary Nutrition .....	3
HE. 367. Space Allocation, Design, and Layout of Modern Food and Lodging Facilities .....	3
HE. 360. Dimensions of the Hospitality Industry .....	2
HE. 464. Food and Beverage Cost Control .....	3
HE. 469. Hospitality Industry Law .....	3
	—
	47

## Options

### RESTAURANT MANAGEMENT OPTION:

HE. 363.	Quantity Food Production and Service .....	3
HE. 365.	Quantity Food Purchasing .....	3
HE. 366.	Food Service Management .....	3
HE. 445.	Advanced Foods .....	3
HE. 460.	Food Service Management Internship .....	3-5
HE. 468.	Food Service Catering .....	3
		—
		18

### HOTEL-MOTEL MANAGEMENT OPTION:

BuAd. 343-344.	Intermediate Accounting .....	6
HE. 325.	Hotel-Motel Management .....	3
HE. 364.	Purchasing for Hospitality Industries .....	3
HE. 368.	Hospitality Industry Merchandising .....	3
HE. 461.	Hotel-Motel Management Internship .....	3
		—
		18
Electives .....		15
		—
TOTAL .....		128

## Description of Courses

HE. 133. *The Contemporary Family*, 3 credits.

Emphasis is placed on the influence of the family unit and the responsibilities which men and women assume when they establish a home.

HE. 140. *Foods (2, 2)*, 3 credits.

The basic principles of preparation of foods are the main emphases in this course. Introduction is made to menu planning and food service. Laboratory activities are planned to acquaint the student with desirable standard products in each food group.

HE. 180. *Elementary Nutrition*, 3 credits.

A study of the basic facts of nutrition, the role of food in body structure and function, and the importance of nutrition in relation to health of the individual throughout the life cycle. Nutritional status of the peoples of the world and problems of safeguarding the food supply are discussed. Emphasis is given to learning to recognize reliable sources of information.

HE. 210. *Clothing Selection and Construction* (1, 4), 3 credits.

A study of the problems of clothing selection for the student and family members. The practicing of the principles of the wise choice of fabrics and the learning of basic skills of clothing construction.

HE. 290. *Textiles*, 3 credits.

A general study of the physical and chemical characteristics of the natural and man-made fibers in relation to their choice, care and use.

HE. 300. *Child Development*, 3 credits.

A study is made of factors involved in the physical, intellectual, social, and emotional growth of the young child. Special emphasis is given to the importance of family relations. The student has opportunities to work with young children both in the community and in the campus nursery school. *Prerequisites: Psyc. 231-232, Psyc. 233-234 or equivalent.*

HE. 310. *Tailoring Techniques* (1, 4), 3 credits.

The values and qualities of tailored garments are studied comparing techniques of the custom detailed garment and the quick method garment construction. *Prerequisite: HE. 210 or equivalent.*

HE. 320. *Consumer Economics*, 2 credits.

This course is a study of the consumer aspect of activity in our economic system. It deals with the problems of the family relating to judging quality, checking quantity, and comparing prices in consumer buying. *Prerequisite: Econ. 202.*

HE. 325. *Hotel-Motel Management*, 3 credits.

This course is designed to study and analyze those areas of management, including front office procedures that contribute to the successful operation of a hotel-motel business. *Prerequisite: BuAd. 280 or equivalent.*

HE. 330. *Family Relations*, 3 credits.

A study of the relations in modern family living with emphasis on dating, courtship, marriage, marital adjustments, and intergeneration relations.

HE. 343. *Demonstration Foods* (1, 4), 3 credits.

The use of the lecture-demonstration for imparting knowledge is the basis of this course. Laboratory experiences are provided to demonstrate how the business home economist, teacher and extension worker can effectively use this technique. *Prerequisite: HE. 140 or equivalent.*

HE. 350. *Related Arts in the Home* (1, 4), 3 credits.

This course deals with selection of furnishings for the home and interior decoration. Laboratory hours devoted to construction of draperies and slipcovers; restoring accessories and furniture. Field trips are an integral part of this course.



HE. 355. *Equipment and Physical Science in the Home* (3, 2), 4 credits.

A study of the selection, use, care and maintenance of household equipment. Also considered are principles from mechanics, electricity, heat, sound, light, atomic energy, and electronics applied to household equipment. Water conditioning for the home, chemical characteristics, and use of laundry and cleaning supplies are included.

HE. 360. *Dimensions of the Hospitality Industry*, 2 credits.

An orientation to the hospitality industry, its objectives, means of achieving these objectives, and opportunities for career development.

HE. 363. *Quantity Food Production and Service* (2, 3), 3 credits.

The principles of quantity food production and service are studied. *Prerequisites: HE. 140, HE. 180 or equivalent.*

HE. 364. *Purchasing for Hospitality Industries*, 3 credits.

A study of the purchasing of the variety of commodities used by the hospitality industry. Includes sources of supply, standards of quality, methods of purchase, delivery, storage, and up-keep.

HE. 365. *Quantity Food Purchasing*, 3 credits.

A discussion of sources, standards of quality, grades, methods of purchase, care, and storage of different types of food. Field trips are an integral part of the course. *Prerequisite: HE. 140 or equivalent.*

HE. 366. *Food Service Management*, 3 credits.

Organization, management, personnel, and labor as they pertain to the responsibilities of a food service director are studied.

HE. 367. *Space Allocation, Design, and Layout of Modern Food and Lodging Facilities*, 3 credits.

The selection, purchasing, and layout of equipment for quantity food service and lodging facilities. Emphasis is on the importance of the environmental design of hotel-motel rooms, lounges, meeting rooms, dining facilities, and public areas.

HE. 368. *Hospitality Industry Merchandising*, 3 credits.

A study of the techniques to sell consumers the service of lodging, meeting rooms, recreation, food, gift shops, and special services for the purpose of making a profit.

HE. 370. *Personal and Family Finances*, 2 credits.

Financial managerial problems of the individual and family. Emphasis on financial planning, factors influencing use of money, how individuals and families try to achieve security against economic risks; use of credit and inter-relationship of money and other resources.

HE. 380. *Advanced Nutrition*, 3 credits.

A study of the nutrients, their roles in intermediary metabolism, the effects of genetic errors in metabolism, nutritional deficiencies, and means of assessing nutritional status. Agencies and programs concerned with nutrition and health, and current trends in nutrition research are emphasized. Experimental animals are used for feeding studies. *Prerequisite: HE. 180 or equivalent.*

HE. 384. *Child Nutrition*, 3 credits.

A study of the nutritional needs and development of food habits of infants, young children, and adolescents. Nutrition education in the classroom and teaching of children are emphasized. *Prerequisite: HE. 180 or equivalent.*

HE. 405. *Observations in Infant Development* (1, 6), 3 credits.

An opportunity will be provided for the student to observe the infant in various aspects of its development. This may include conference with the expectant parents, well-baby clinic, hospital situations, family observations, and family-oriented situations. One hour conference with the instructor and six hours of observation weekly. *Prerequisites: HE. 300 and consent of the Head of the Department.*

HE. 410. *Flat Pattern Design and Construction* (1, 4), 3 credits.

A study of the scope of the clothing area and an understanding of the world of fashion. Creativity is stressed in the designing of garments. This course offers an opportunity to achieve a better knowledge of garment-fitting. *Prerequisite: HE. 210 or equivalent.*

HE. 445. *Advanced Foods* (1, 4), 3 credits.

A further study of foods emphasizing the combination of scientific and esthetic food principles, understanding of domestic and foreign terms, and management of time in food preparation. The laboratory provides opportunity to become familiar with gourmet foods and their preparation. *Prerequisite: HE. 140 or equivalent.*

HE. 446. *Experimental Foods* (1, 4), 3 credits.

An introduction to research in foods. Different techniques of food preparation are studied and evaluated for most acceptable methods to obtain standard food products. *Prerequisite: HE. 140 or equivalent.*

HE. 450. *Family Housing*, 2 credits.

Social, economic, and technological factors relating to planning for family housing. To acquire an understanding of blueprints and judging house plans. A study of the effective use of space, housing regulations, and restrictions; site selection and neighborhood development. This course is closely correlated with basic art and equipment and physical science in the home.

HE. 460. *Food Service Management Internship*, 3-5 credits.

Supervised experience in a food service with emphasis on food production, quality control, recipe standardization, portion and cost control, menu planning and work simplification. *Prerequisites: HE. 363 and 367.*

HE. 461. *Hotel-Motel Management Internship*, 3-5 credits.

Supervised experience in a hotel or motel with emphasis on management in the various phases of the industry. *Prerequisite: HE. 325.*

HE. 464. *Food and Beverage Cost Control*, 3 credits.

A study of cost control of food and beverage as it applies to the hospitality industry.

HE. 468. *Food Service Catering (2, 3)*, 3 credits.

The planning and service of food for special functions. Laboratory offers opportunity to develop some skill in management of catering.

HE. 469. *Hospitality Industry Law*, 3 credits.

A study of the laws of importance in operation of hotels, motels, and restaurants.

HE. 470. *Home Management (2, 3)*, 3 credits.

A study of the importance of the role of homemaker-manager in home decision making. Principles of home management are presented in a variety of laboratory and situational experiences. *Prerequisites: HE. 140, HE. 180, HE. 320, HE. 355, HE. 475 or equivalent.*

HE. 475. *Management of Personal and Family Resources*, 2 credits.

A study of the concepts and functions of home management, the concerns, goals, and values reflected in the way non-financial resources are used.

HE. 484. *Diet Therapy (2, 2)*, 3 credits.

A study of the use of diet in preventing illness and as a means of treating disease. Emphasis is given to patient education. *Prerequisites: HE. 380 and Chem. 238 or equivalent.*

HE. 490. *Special Studies in Home Economics (1, 2-6)*, 1-3 credits each semester.

Capable students may elect to do independent study in an area of home economics under faculty supervision. (Offered only with the consent of the Head of the Department.)

HE. 494. *Practicum in Merchandising (1, 20)*, 8 credits.

Practical experience in retail merchandising will be offered in retail stores under the direction and supervision of a Home Economics faculty member. Experiences will include selling, advertising, buying, promotion, customer accounts, and employee management. One conference hour per week and twenty hours on the job. Readings, a buying trip, and completion of several projects required. When this course is taken on an eight week block, it is scheduled for 2 hours conference and 40 hours on the job per week. No other courses should be taken with this arrangement. (*Offered only with the consent of the Head of the Department.*)

HE. 499. *Honors*, 6 credits. Year Course.

HE. 501. *Workshop in Home Economics* (Summer), 1-3 credits.

Workshops in different areas of home economics will be studied as student needs indicate. This course is designed expressly for continuing education. It can be repeated as frequently as the area of emphasis is changed.

HE. 520. *World Nutrition Needs and Food Resources* (Summer), 3 credits.

The major world nutrition problems of today are analyzed. Identifying causative factors and investigating corrective measures are an integral part of the course.

HE. 540. *Clothing Construction Techniques* (Summer; 1, 4), 3 credits.

The newer techniques in both custom and fast methods of clothing construction are studied. Emphasis is placed on fittings, underlinings, and finishing details. Garments are constructed incorporating the techniques studied. *Prerequisite: HE. 210 or equivalent.*

HE. 550. *Advanced Problems in Home Furnishings* (Summer), 3 credits.

A review and interpretation of the major housing problems facing families today. Special emphasis will be given to trends in house planning, materials, and furnishings.

## Home Economics Education

HE. 303. *Home Economics Education*, 3 credits.

Students are provided experiences which help them formulate a philosophy of homemaking. Emphasis is placed upon principles of learning, studies of communities, instructional materials, and analysis of concerns of youth as a basis for cooperatively planning home and school activities. *Prerequisites: Psyc. 233-234 or equivalent.*

HE. 400. *Vocational Home Economics*, 3 credits.

A critical survey of the development of Home Economics is made with emphasis upon curriculum development reflecting implications of the Vocational Education Act of 1968 for secondary schools. *Prerequisite: HE. 303 or equivalent.*

HE. 404. *Home Economics in Occupational Training*, 3 credits.

A study of procedure for organization of program and development of curriculum for occupational training programs in Food Service Occupations; Child Care Service Occupations; Clothing Service Occupations; and Home and Institutional Service Occupations with practical experience provided in each program.

HE. 480. *Directed Teaching in Home Economics*, 8 credits.

The student assumes the responsibility for teaching in a junior or senior high center under the supervision and direction of the resident supervisors. The student visits in the homes of the pupils in the community, attends professional meetings, and participates in the activities of the school and community. *Prerequisite: HE. 400.*

# SCHOOL OF EDUCATION

DR. CHARLES G. CALDWELL, *Dean*

DR. ROBERT O. RIGGS, *Associate Dean*

With the rapid changes occurring at all levels of our society, many of which have a profound impact on the preparation of students for the active, multifaceted roles of the education professions, renewed emphasis is placed on the selection and retention of applicants to these programs. A prospective educator must have a total commitment to teaching. This fact undergirds all programs offered by the School of Education.

The School of Education includes the Departments of Early Childhood and Elementary Education, Library Science, Psychology, Secondary Education and School Administration, Special Education Services, the Office of Student Teaching and the Anthony-Seeger Campus School. The School offers nine Departmental and Interdepartmental undergraduate programs leading to the baccalaureate degree. Through a combination of classroom, laboratory, and community-based practicum experiences students are prepared for the teaching and allied professions. The sequence of experiences is designed to provide those competencies which will enable the individual to function as an effective member of his profession, a contributor to his social groupings, and a wholesome, well-rounded person.

## Screening Program in Teacher Education

The School of Education believes that students, to be enrolled in teacher education, should possess attributes conducive to the guidance of children and youth toward the realization of the objectives of American public education. The screening program for students who wish to enroll in teacher education programs is described below.

### A. Criteria for Evaluating Students in Teacher Education

1. Students enrolled in teacher education must possess scholarship of a degree and kind which will enable them to guide and stimulate the total development of children and youth.

To be retained in the teacher education program, a student must adhere to the general scholarship requirements of the

College. For admission to Directed Teaching, a student must possess an overall 2.00 point average (C) and a 2.00 average in his major and/or minor field.

2. Students enrolled in teacher education must possess good health and be free from physical defects detrimental to effective teaching.
3. Students enrolled in teacher education must be free from speech, hearing, and vision defects which would interfere with classroom awareness and ability to communicate with others.
4. Students enrolled in teacher education must possess behavioral characteristics which will further the social and emotional development of children and youth.
5. Students enrolled in teacher education must exhibit conduct and appearance which are socially and professionally acceptable.

#### B. Specific Procedures in the Screening Program

1. All freshmen and transfer students who plan to become teachers must complete Form TE-A, which is available in the Office of the Dean of Education, within the first semester of residence. The student description summary of the application for undergraduate admission will also be consulted by the Staff of the Department of Early Childhood and Elementary Education, and/or the staff of the Department of Secondary Education.
2. The Instructors of Psychology 233-234 will complete form TE-B for all students enrolled in this course.
3. The Coordinator of Student Teaching will distribute Forms TE-C and TE-D to all students enrolled in teacher education programs in their junior year. The student will complete Form TE-C and the student's academic and professional advisors will complete Form TE-D. These forms are returned to the Coordinator of Student Teaching.
4. The evaluation forms used in the student teaching experience will be completed by the Coordinator of Student Teaching and the Supervisory Staff.

### C. General Procedures

1. All staff members who are associated with any aspects of teacher education, (general, subject and professional) and who identify students who possess traits contrary to those stated in the criteria for retention in teacher education will report such cases to the screening committee.
2. The screening committee composed of the Associate Dean of the School of Education, the Head of the Department, and the Coordinator of Student Teaching, will meet at least twice a year to review the cases of students who do not appear to meet the criteria for retention in teacher education.

### Student Teaching

Student teaching is required of all students who are enrolled in a program leading to a teaching certificate.

Throughout their entire period of teaching, the students are closely supervised by skilled teachers who observe their work and instruct them in the methods used. The Coordinator of Student Teaching coordinates the programs, assigns all student teachers to their places, and helps to plan and supervise their work. The College Supervisors have a primary responsibility for supervising the work of the student teachers. Students are given the opportunity to teach in their major area or special field.

Student teachers who live on campus are assigned to the public schools of Harrisonburg, Anthony-Seeger Campus School, or Rockingham County. Many student teachers live off campus and teach in public schools within a distance of 125 miles.

# Inter-Departmental Program

The inter-departmental program offered by the School of Education is designed to prepare the student for endorsement in elementary education and a specialized field. Underlying this program is the assumption that one who works in a school library, is more effective if he also possesses those skills and understandings appropriate to the classroom teacher in the elementary school.

A student interested in majoring in this program should consult the Head of the Library Science Department and the Head of the Department of Early Childhood and Elementary Education.

## Four-Year Program (B.S. Degree) Leading to Dual Endorsement in Library Science and Elementary Education (4-7)

The student who completes this program may be recommended for the Collegiate Professional Teaching Certificate with endorsements to teach the elementary grades (4-7) and to serve as a school librarian. (Students wanting the additional endorsement to teach grades K-3 must see the appropriate Department Heads concerning special program arrangements necessary for changing certification requirements.)

### FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Eng. 101-102. Reading and Composition .....	3	3	
Geog. 120. Introduction to Geography .....	0	3	
Hist. 255-256. History of Civilization .....	3	3	
Math. 107-108. Fundamentals of Mathematics .....	3	3	
Basic Studies Art 200 or Mus. 200 .....	3	0	
*Basic Studies Natural Sciences .....	4	4	
Basic Studies Physical Education .....	1	1	
	—	—	
		17	17

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\*Includes two different areas selected from the following: biology, chemistry, physics, geology.



SOPHOMORE YEAR

Comm. 200. Oral Communication .....	0	3
Econ. 220. Survey of Economics .....	3	0
Hth. 200. Elements of Health Education .....	2	0
LS. 240. Children's Literature .....	3	0
LS. 340. Information Sources .....	3	0
Math. 208. Intuitive Foundations of Geometry .....	0	2
MuEd. 375 Music for Children .....	0	3
Psyc. 233-234. Human Growth and Development .....	3	3
Basic Studies Physical Education .....	0	1
Electives in Literature .....	3	0
Elective in Social Science .....	0	3
	17	15

JUNIOR YEAR

Art 310. Art Activities in the Elementary School .....	3	0
EEd. 356. Language Arts in the Elementary School .....	3	0
EEd. 358. Mathematics in the Elementary School .....	3	0
EEd. 359. Reading in the Elementary School .....	0	3
Educ. 360. Foundations of Curriculum .....	3	0
EEd. 369. Methods and Materials in Teaching in the Elementary Grades .....	0	3
LS. 365. Organization of Materials .....	3	0
LS. 366. Administration of School Libraries .....	0	3
LS. 370. Audio-Visual Materials .....	0	3
PE. 370. Physical Education for Children .....	2	0
Sci. 310. Science in the Elementary School .....	0	4
	17	16

SENIOR YEAR

EEd. 439. Diagnostic Reading .....	0	3
Educ. 470. History and Philosophy of Educational Thought ...	0	3
Educ. 480. Directed Teaching .....	4	0
Educ. 480. Directed Teaching — Library Service .....	4	0
Hist. 233 or 234. United States History .....	3	0
LS. 354. Young Peoples Literature .....	0	3
Elective in English .....	0	3
Electives .....	3	3
	14	15

# DEPARTMENT

## of Elementary and Early Childhood Education

DR. CHARLES W. BLAIR, *Head of the Department*

*Professors* BLAIR, DARRIN, LAFFEY, C. NEATROUR, and SCHERWITZKY

*Associate Professors* DAVIS, KASLOW, MERLIN, and REEKE

*Assistant Professors* BENDER, M. DICKERSON, HOPKINS, SCHILDER, and  
WILBORN

The Department of Elementary and Early Childhood Education offers programs designed to provide the student with a strong background in professional education and to qualify the student for the Collegiate Professional Teaching Certificate in the State of Virginia. Two major programs are offered by the department.

### MAJOR PROGRAMS

#### Four-Year (B.S. Degree) Program for a Major in Elementary Education (Grades 4-7)

The student who majors in Elementary Education may be recommended for the Collegiate Professional Certificate with endorsement for grades four through seven.

Students majoring in elementary education who plan to teach in departmentalized elementary schools should use electives to acquire added proficiency in one or more academic areas. Students who plan to teach in self-contained classrooms should utilize available electives to develop increased professional or academic proficiency and to expand individual interests.

Students who desire to be recommended for endorsement in Library Science in addition to Elementary Education should contact the Head of the Library Science Department.

All students who major in elementary education, regardless of additional endorsements, are assigned an advisor in the Education Department.

Students who are contemplating graduate study in Education should consider enrolling in a course in statistics and a course in mental tests and measurements. These courses should be selected after consultation with the major advisor.

#### FRESHMAN YEAR

<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Eng. 101-102. Reading and Composition .....	3	3
Geog. 120. Introduction to Geography .....	0	3
Hist. 255-256. History of Civilization .....	3	3
Math. 107-108. Fundamentals of Mathematics .....	3	3
Basic Studies Art 200 or Mus. 200 .....	3	0
*Basic Studies Natural Sciences .....	4	4
Basic Studies Physical Education .....	1	1
	—	—
	17	17

#### SOPHOMORE YEAR

Comm. 200. Oral Communication .....	0	3
Econ. 220. Survey of Economics .....	3	0
Hth. 200. Elements of Health Education .....	2	0
LS. 240. Children's Literature .....	3	0
Math. 208. Intuitive Foundations of Geometry .....	0	2
Psyc. 233-234. Human Growth and Development .....	3	3
Basic Studies Literature .....	0	3
Basic Studies Physical Education .....	0	1
Electives .....	5	4
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	16	16

\*Include two different areas selected from the following: biology, chemistry, physics, geology.

#### JUNIOR YEAR

Art 310. Art Activities in the Elementary School .....	3	0
EIEd. 356. Language Arts in the Elementary School .....	0	3
EIEd. 358. Mathematics in the Elementary School .....	3	0
EIEd. 359. Reading in the Elementary School .....	3	0
Educ. 360. Foundations of Curriculum .....	3	0
EIEd. 369. Methods and Materials in Teaching in the Elementary Grades (4-7) .....	0	3
EIEd. 439. Diagnostic Reading .....	0	3
MuEd. 375. Music for Children .....	3	0
PE. 370. Physical Education for Children .....	2	0
Sci. 310. Science in the Elementary School .....	0	4
Electives .....	0	3
	—	—
	17	16

SENIOR YEAR

Educ. 470. History and Philosophy of Educational Thought . . . .	3	0
Educ. 480. Directed Teaching . . . . .	8	0
Hist. 233 or 234. United States History . . . . .	3	0
Elective in English . . . . .	0	3
Elective in Social Science . . . . .	0	3
Electives . . . . .	0	9
	14	15

**Four-Year Program (B.S. Degree) for a Major in Early Childhood Education (N, K-3)**

Students who complete this major program may be recommended for the Collegiate Professional Certificate with endorsement to teach in nursery school through grade three.

FRESHMAN YEAR

<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Comm. 200. Oral Communication . . . . .	3	0
Eng. 101-102. Reading and Composition . . . . .	3	3
Hist. 255-256. History of Civilization . . . . .	3	3
Math. 107-108. Fundamentals of Mathematics . . . . .	3	3
Basic Studies Art 200 or Mus. 200 . . . . .	0	3
*Basic Studies Natural Sciences . . . . .	4	4
Basic Studies Physical Education . . . . .	1	1
	17	17

SOPHOMORE YEAR

Hth. 200. Elements of Health Education . . . . .	2	0
LS. 240. Children's Literature . . . . .	3	0
Psyc. 233-234. Human Growth and Development . . . . .	3	3
MuEd. 375. Music for Children . . . . .	0	3
Soci. 139. Introduction to Sociology . . . . .	3	0
Sci. 310. Science in the Elementary School . . . . .	0	4
EEd. 359. Reading in the Elementary School . . . . .	0	3
Art 310. Art Activities in the Elementary School . . . . .	0	3
Econ. 220. Survey of Economics . . . . .	3	0
Basic Studies Physical Education . . . . .	1	0
	15	16

\*Include two different areas selected from the following: biology, chemistry, physics, geology.

### JUNIOR YEAR

EIEd. 356. Language Arts in the Elementary School .....	0	3
EIEd. 358. Mathematics in the Elementary School .....	3	0
Educ. 360. Foundations of Curriculum .....	3	0
EIEd. 369. Methods and Materials in Teaching in the Elementary Grades (Primary) .....	0	3
Psyc. 357. Psychology of Personality .....	3	0
Psyc. 369. Psychology of Early Childhood .....	3	0
Psyc. 480. Laboratory of Child Study .....	0	3
ECEd. 509. Curriculum for Early Childhood Education .....	3	0
ECEd. 510. The Creative Arts in Early Childhood Education ..	0	3
EIEd. 439. Diagnostic Reading .....	0	3
PE. 370. Physical Education for Children .....	2	0
	17	15

### SENIOR YEAR

Educ. 480. Directed Teaching (Kindergarten-Nursery) .....	8	0
Educ. 480. Directed Teaching (Primary Grades) .....	8	0
Educ. 470. History and Philosophy of Educational Thought ...	0	3
Hist. 233 or 234. United States History .....	0	3
Basic Studies Literature .....	0	3
Electives .....	0	6
	16	15

Students who have interest in positions as directors and teachers in either nursery schools or comprehensive child development programs and who desire additional preparation for such assignments should enroll in the following courses after consultation with the Co-ordinator of the Early Childhood Education Program.

ECEd. 440. Working with Parents of Young Children .....	3
ECEd. 442. Comprehensive Child Development Centers .....	3
Educ. 480. Directed Teaching (Comprehensive Child Development Programs) .....	8

### Description of Courses

#### Early Childhood

ECEd. 401. *Problems in Early Childhood Education*, 3 credits.

Considers current problems and issues in early childhood education as these problems and issues relate to the professional education of pre-service teachers.  
*Prerequisite: Permission from the Head of the Department.*

ECEd. 440. *Working with Parents of Young Children*, 3 credits.

Designed for students who plan to teach in comprehensive child development centers and nursery schools. It deals with the teacher's role in parent and family life education and with methods by which parent-teacher cooperation and coordination of effort are achieved. Attention is given to current research in parent education and to the selection and evaluation of materials for use with parents. *Prerequisites: Psyc. 369, Psyc. 480.*

ECEd. 442. *Comprehensive Child Development Centers*, 3 credits.

Designed for students who expect to direct or teach in comprehensive child development or nursery school programs. Emphasis is placed on the meeting of the needs of young children in group care. Consideration is given to the planning of facilities, selection of equipment and materials, program development, staff training and utilization and the utilization of community resources. *Prerequisite: Written Recommendation of the Early Childhood Education Program Coordinator.*

ECEd. 490. *Special Studies in Early Childhood Education*, 1-3 credits each semester.

Designed to give capable students an opportunity to do independent research on educational problems under faculty guidance. The plan for the study must be presented to the Head of the Department for approval.

ECEd. 499. *Honors in Early Childhood Education.*

ECEd. 509. *Curriculum for Early Childhood Education*, 3 credits.

Survey of theory and practice in curriculum development for early childhood education. Consideration of historical contributions to contemporary programs. Emphasis is on the planning of appropriate learning experiences in the areas of science, social studies, and mathematics. *Prerequisite: Psyc. 510 or equivalent.*

ECEd. 510. *The Creative Arts in Early Childhood Education*, 3 credits.

Application of knowledge of the creative process and its nurture to programs for young children. Exploration of creative learning experiences in arts, music, language arts, movement and dance. Interpretation of guidance of development in these areas. *Prerequisite: Psyc. 510 or equivalent.*

## Elementary Education

ElEd. 356. *Language Arts in the Elementary School*, 3 credits.

Provides the undergraduate student with an understanding of the related factors which influence the total language development of the child. Specific attention is given to techniques of instruction which relate to the teaching of spelling, handwriting, and other communication skills. The differentiation of instruction in terms of learning ability is considered. *Prerequisites: Psyc. 233-234.*

ElEd. 357. *Social Studies in the Elementary School*, 3 credits.

For preservice teachers concerned with those teaching methods and materials which relate to social studies instruction in the elementary school. The objectives of social studies instruction are studied in relationship to the developmental needs of children.

ELED. 358. *Mathematics in the Elementary School*, 3 credits.

Consideration will be given to the use of manipulative, visual, and symbolic materials to give meaning to the number system, and to help the child to gain an understanding of number operations with whole numbers, fractions and decimals. The prospective teacher will consider what the pupils must learn, what the order of their learning must be, and what they must do to learn. Designed for students in Elementary Education. *Prerequisites: Psyc. 233-234 or equivalent.*

ELED. 359. *Reading in the Elementary School*, 3 credits.

Basic course in the teaching of reading in the elementary school. The materials and procedures which are used in the modern school system are studied. Attention is given to teacher-made materials for use in the reading program. Testing for readiness and achievement in reading is emphasized. Specific attention is given to differentiating instruction for both fast and slow learners. *Prerequisites: Psyc. 233-234 or equivalent.*

ELED. 369. *Methods and Materials in Teaching in the Elementary Grades*, 3 credits.

For those students preparing to teach in the elementary school. This is an integrated methods course designed to meet the developmental needs of youth in the various subject fields included in the elementary school curriculum. *Prerequisite: Educ. 360 or equivalent.*

ELED. 390. *Practicum in Elementary Education* (1, 4), 3 credits.

Provides practical classroom experience for pre-service elementary teachers. Under the supervision of an in-service teacher students are enabled to engage in a variety of classroom activities commensurate with their professional preparation. *Prerequisite: Permission of Instructor.*

ELED. 401. *Problems in Elementary Education*, 1-3 credits.

Deals with current problems and issues in elementary education as these problems and issues relate to the professional education of teachers. *Prerequisite: Permission from the Head of the Department.*

ELED. 439. *Diagnostic Reading* (2, 2), 3 credits.

Students enrolled in this course study methods of diagnosing and treating reading problems. Each student is required to employ methods and techniques in laboratory situations as arranged by the course instructor. *Prerequisite: ELED. 359.*

ELED. 450. *Reading Problems in the Secondary School*, 3 credits.

Problems such as developing fundamental reading skills, organizing the class to provide for individual differences in reading, testing reading skills, and developing special reading skills such as reading for organization, critical reading and reading for main ideas will be studied.

ELED. 490. *Special Studies in Elementary Education*. 1-3 credits.

Designed to give capable students an opportunity to do independent study on educational problems under faculty guidance. The plan for the study must be approved by the faculty advisor and the Department Head.

ELED. 499. *Honors in Elementary Education*.

## THE OFFICE OF STUDENT TEACHING

ROBERT A. HORN, *Coordinator*

The Office of Student Teaching has two major responsibilities: the administration and supervision of directed teaching; and the administration of cooperative programs involving the placement of undergraduate and graduate students in the public schools served by the College.

Student teaching is an integral part of the sequence of professional experiences in all teacher education programs. It is required for those students seeking the Collegiate Professional Certificate.

During the period of directed teaching, the student is supervised in the classroom by an experienced teacher who observes his performance and assists him in the methods used. The Coordinator of Student Teaching coordinates the programs, assigns all students to their schools, and assists in the planning and supervision of their work. The College supervisors have a major responsibility for supervision of students enrolled in Education 480.

A student, while engaged in student teaching, is encouraged to live in the community in which the school to which he is assigned is located.

Course prerequisites for Directed Teaching are Psyc. 233 and 234; Educ. 360 and ELED. 369 or SeEd. 370, or their equivalents. A minimum cumulative grade point average of 2.00 in the major and minor fields is required for admission to directed teaching. In addition, the student's advisors must complete a student evaluation for those seeking admission to student teaching.

All practicum sites involving either observation or participation experiences are arranged through the office of student teaching. This allows requests from the College faculty which involve cooperative efforts with public schools to be channeled through one office.



# DEPARTMENT

## of Secondary Education and School Administration.

*Professors* FOX, LEHMAN

*Associate Professors* FLOYD, GRAHAM, LILES, ROLLER

*Assistant Professors* DUBENEZIC, JOYCE, SMITH, WILEY

### Program in Professional Education for Secondary Teachers

Students who plan to teach at the secondary level major in the subject area in which they plan to teach and minor in Secondary Education.

A minimum of twenty-one (21) semester hours is required for a minor in Education. Required courses in the minor are Psychology 233-234 (Human Growth and Development), Education 360 (Foundations of Curriculum), the appropriate method course or courses (see below), Education 470 (History and Philosophy of Educational Thought), and Education 480 (Directed Teaching). Students minoring in Secondary Education enroll in Psychology 233-234 during the sophomore year and in Education 360 during the junior year. Immediately before enrolling in Education 480, students should enroll in the appropriate methods course or courses (see statement below). Education 480 is taken during the senior year and is arranged through the Coordinator of Student Teaching. Education 470 should also be taken during the senior year. Students should note that prerequisites are established for each of the courses included in the minor. Any exceptions to these requirements must be approved by the Head of the Department.

Students who wish to be certified to teach at the secondary level must also complete Health 200 (Elements of Health Education) and History 233 or 234 (United States History).

The Department of Secondary Education requires that the minor in education include at least three (3) semester hours of course work

in methods of teaching. For some majors this requirement is met by taking a three semester hour course in the Secondary Education Department. Other majors meet this requirement by taking a two semester hour general methods course in the Secondary Education Department and at least a two semester hour special methods course in their major field. The following requirements have been established for students majoring in various subject areas:

<i>Major</i>	<i>Required Courses</i>
Art	SeEd. 370 and Art 316
Communication Arts	SeEd. 370 and Comm. 301
English	SeEd. 370 and Eng. 375
Foreign Language	SeEd. 370 and FL. 350
Music	SeEd. 370 and MuEd. 376
Mathematics	SeEd. 370 and Math. 425
Physical Education	SeEd. 370 and PE. 483
Natural Sciences	SeEd. 376
Social Sciences	SeEd. 375
Distributive Education	SeEd. 370 and DE. 370

#### **Career Advisory System in Secondary Education**

Students planning to become teachers in secondary schools will be assigned a career advisor in the Department of Secondary Education during the second semester of their freshman year. The career advisor will advise the student concerning job opportunities in the various secondary subject areas, the proper sequence of education courses, practicum opportunities in local secondary schools, and special programs and elective courses in the Department. The student's career advisor will initiate contacts with his advisees, and students are expected to respond to these contacts. By consulting regularly with his career advisor in Secondary Education, the student can continually evaluate his career objectives. The career advisory system in Secondary Education is complementary to the advisory system offered by the student's major department.

#### **Screening Program in Secondary Education**

The Department of Secondary Education will utilize the screening procedures established by the School of Education (described on pages 288-289 in this catalog) and will apply these criteria to students who are minoring in Secondary Education. All staff members who are associ-

ated with any aspect of teacher education are requested to identify students who possess traits contrary to those stated in the criteria for retention in teacher education. Staff members will submit a written report on such students to the Head of the Department of Secondary Education, and the Department Head will forward these reports to the student's career advisor in Secondary Education. The student's career advisor will review the reports of all of his advisees near the end of their sophomore year and twice during their junior and senior years. He will forward all unfavorable reports concerning individual students to the School of Education screening committee for their consideration and action.

## DESCRIPTION OF COURSES

### Secondary Education

SEED. 370. *Methods and Materials in Teaching in the Secondary School*, 2-3 credits.

For students preparing to teach in the secondary school. Topics of concern to all secondary teachers are considered, including problems of classroom management, principles of learning which relate to the daily and long range planning of teaching activities, various aspects of professional responsibility, and the general use of common types of audio-visual equipment and materials. *Prerequisite: Educ. 360 or equivalent.*

SEED. 375. *Methods and Materials in Teaching in the Secondary School — Social Studies*, 3 credits.

For students preparing to teach social studies in the secondary school. Topics of concern to all secondary teachers are considered, including problems of classroom management, principles of learning which relate to the daily and long range planning of teaching activities, various aspects of professional responsibility, and the general use of common types of audio-visual equipment and materials.

In addition, attention is given to instructional methods and materials which are especially applicable to the teaching of social studies in the secondary school. Current trends in social studies instruction are reviewed. *Prerequisite: Educ. 360 or equivalent.*

SEED. 376. *Methods and Materials for Teaching in the Secondary School — Science*, 3 credits.

For students planning to teach science in the secondary school. Topics of concern to all secondary teachers are considered, including problems of classroom management, theories of learning which relate to both daily and long range planning, various aspects of professional responsibility, and the use of most common types of audio-visual equipment.

In addition, specific attention is given to the nature of the total secondary school science program and current trends in secondary school science instruction. *Prerequisite: Educ. 360 or equivalent.*

SeEd. 381. *Field Experience in Secondary Education* (1, 4), 3 credits.

Provides practical classroom experience for preservice secondary teachers. Under the supervision of an inservice teacher, students are enabled to engage in a variety of classroom activities commensurate with their professional preparation. *Prerequisite: Permission of Instructor.*

SEED. 401. *Problems in Secondary Education*, 1-3 credits.

Current problems and issues in secondary education as these problems and issues relate to the professional education of secondary teachers. *Prerequisite: Permission from the Head of the Department.*

SEED. 490. *Special Studies in Education*, 1-3 credits.

Designed to give capable students an opportunity to do independent study of problems in secondary education under faculty guidance. The plan for the study must be approved by the faculty adviser and by the Head of the Department.

## Description of Courses

### Education

EDUC. 360. *Foundations of Curriculum*, 3 credits.

A study and evaluation of the factors, ideas, and issues which influence the public school curriculum. Consideration is given to such topics as: basic ideas which influence organization and content; various programs found in theory and practice; and the scope and sequence of the curriculum. *Prerequisites: Psyc. 233-234 or equivalent.*

EDUC. 470. *History and Philosophy of Educational Thought*, 3 credits.

Critical analysis of current problems in education as they relate to the major philosophies of modern education. *Prerequisite: Educ. 360 or equivalent.*

Educ. 480. *Directed Teaching*, 3-8 credits.

The major purpose of directed teaching is to enable the preservice teacher to apply, in the public school classrooms and comprehensive child development programs, those skills, understandings, and attitudes acquired in all components of teacher education. Under the guidance of cooperating teachers and college supervisors, the student is provided activities designed to familiarize him with all aspects of the classroom teacher's role. *Prerequisites: Psyc. 233-234, EEd. 360 and 369, or SeEd. 370 or equivalent and permission of Coordinator of Student Teaching.*

EDUC. 487. *The Use of Television in Education*, 3 credits.

Designed to familiarize and prepare prospective teachers in the understanding of educational television as a medium for classroom instruction. Included will be a study of the role of the television teacher, the problems involved in the production and receiving of programs, evaluation techniques, and procedures for relating the television lesson to the total curriculum.

EDUC. 488. *Evaluation of Educational Media*, 3 credits.

Analysis and evaluation of programmed instruction, teaching machines and other media, and the development of criteria for evaluating these newer instructional methods and devices.

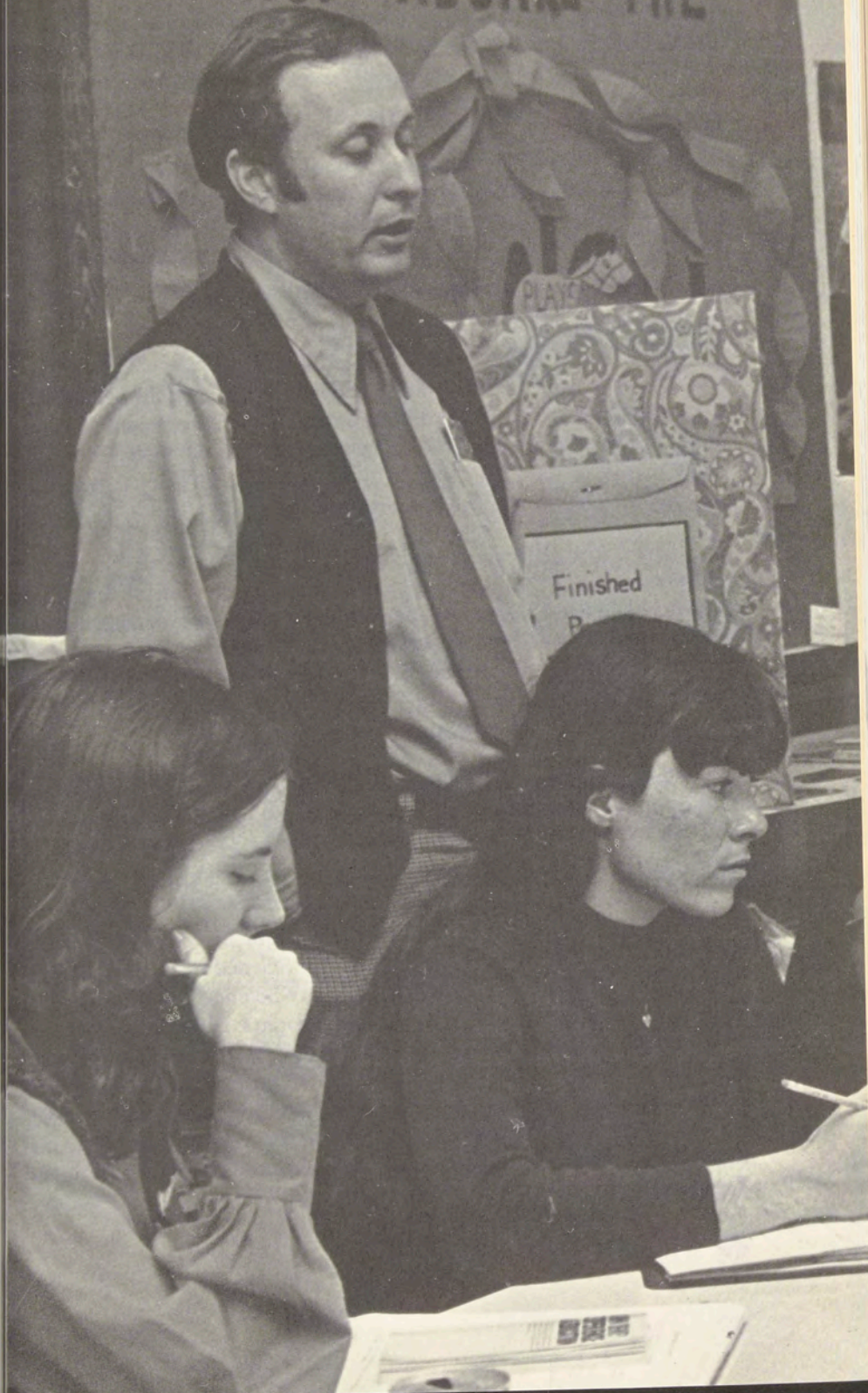
EDUC. 540. *Supervising the Student Teacher*. 3 credits.

The student teaching experience is explored as a major component of the teacher education program. Specific attention is given to the role of public school personnel in the guidance of the student teacher.

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# DEPARTMENT

## of Library Science

DR. MARY F. HABAN, *Head of the Department*

*Associate Professor* HABAN

*Assistant Professors* BLANKENBURG, FINLAY, and RIDDLE

*Lecturer* WAMPLER

The Department of Library Science offers a program designed to prepare students for school librarianship. The Department also prepares prospective teachers to make effective use of books, films, and other media in their teaching, and all students in teacher education may choose electives in the Department.

School librarians must be certified to teach in a subject field in addition to their Library Science certification. Regardless of the subject area or grade level chosen for their teaching fields, students completing the Library Science requirements may be recommended for certification for librarianship in grades K-12. Students interested in dual certification in Library Science and Elementary Education should refer to the description of that program.

The Department's offerings include a core of basic courses that will prepare students for graduate study in Library Science.

### Major Program and Certification

The minimum requirement for a major in Library Science is twenty-five (25) semester hours in Library Science to include Library Science 240 (Children's Literature), Library Science 340 (Information Sources), Library Science 354 (Young People's Literature), Library Science 365 (Organization of Materials), Library Science 366 (Administration of School Libraries), Library Science 370 (Audio-Visual Materials), Library Science 486 (Senior Seminar in Library Service for Schools), and Education 480 (four semester hours in Directed Teaching—Library Service and four semester hours in Directed Teaching).

Students who desire certification for school librarianship without majoring in Library Science must include all the requirements mentioned on page 306 except Library Science 486.

### Suggested Sequence of Courses:

Students majoring in Library Science study toward either the Bachelor of Arts or Bachelor of Science degree. All students must complete a minimum of one hundred and twenty-eight (128) semester hours, of which forty-one (41) semester hours must be in the Basic Studies requirements listed under that heading in this catalog (See pgs. 69-70).

To fulfill all requirements, the following sequence of courses is recommended for students majoring in Library Science:

*Freshman Year.* Eng. 101-102 (6 credits), Hist. 255-256 (6 credits), Comm. 200 (3 credits), Basic Studies Art 200 or Music 200 (3 credits), Basic Studies Mathematics (3 credits), Basic Studies Physical Education (2 credits). *Add for Bachelor of Arts:* Foreign Language (6 to 8 credits), Basic Studies Social Science (3 credits). *Or add for Bachelor of Science:* Mathematics (3 credits) and Basic Studies Natural Science (8 credits).

*Sophomore Year.* LS. 240 (3 credits), LS. 354 (3 credits), Hist. 233 or 234 (3 credits), Hth. 200 (2 credits), Psyc. 233-234 (6 credits), Basic Studies Physical Education (1 credit). *Add for Bachelor of Arts:* Foreign Language (if needed) or electives (6 credits), Basic Studies Natural Science (8 credits). *Or add for Bachelor of Science:* Basic Studies Social Science (3 credits), added course in Social Science or Natural Science (3 or 4 credits), Electives (6 to 8 credits).

*Junior Year.* Educ. 360 (3 credits), SeEd. 370 or equivalent as appropriate for chosen teaching field (3 or 4 credits), LS. 340 (3 credits), LS. 365 (3 credits), LS. 366 (3 credits), Basic Studies Literature (3 credits), Basic Studies Social Science (3 credits). *Add for Bachelor of Arts:* Phil. 240 (3 credits), Electives (9 credits). *Or add for Bachelor of Science:* Electives (12 credits).

*Senior Year.* Educ. 470 (3 credits), LS. 370 (3 credits), LS. 486 (3 credits), Educ. 480 (4 credits in Directed Teaching—Library Service and 4 credits in Directed Teaching), Electives (13 credits).

NOTE: A portion of the elective hours listed above are to be devoted to achieving certification endorsement in a subject field taught in the public schools. Consult your advisor.

Students interested in a program in Library Science should consult the Head of the Department.

The Department of Library Science also offers a graduate minor program for the continuing professional education of school library media personnel. Inquiries should be directed to the Office of Graduate Studies.



## Description of Courses

LS. 101. *Resources for College Studies*, 2 credits.

Designed to acquaint students with college library resources and to offer guided experiences in their use in the research process.

LS. 240. *Children's Literature*, 3 credits.

Prospective teachers and librarians gain familiarity with the literature available for children. Principles of evaluation and selection to meet the needs and interests of individual children, with consideration of curriculum-related materials and means of arousing interest in books. *Prerequisites: Eng. 101-102.*

LS. 340. *Information Sources*, 3 credits.

Use of reference materials to meet the information needs of students. Includes the study of encyclopedias, dictionaries, yearbooks, indexes, bibliographies, and specialized reference books for the various subject areas.

LS. 354. *Young People's Literature*, 3 credits.

The purpose of this course is to introduce students to the wealth of printed materials available for young people. Students will examine and read extensively among the books that have been written for young people in order to learn how to select and use the best reading material being published today.

LS. 365. *Organization of Materials (3, 2)*, 3 credits.

Practice for supervision of the clerical aspects of library management, including circulation systems and technical processing of materials. Procedures of acquisition, simplified cataloging, and classification of library materials.

LS. 366. *Administration of School Libraries*, 3 credits.

The functions of the school library as a media center, standards for development, involvement in design of physical facilities, budget planning, supervising of personnel, and evaluation of ongoing programs. *Prerequisite: LS. 365.*

LS. 370. *Audio-Visual Materials (3, 1)*, 3 credits.

Principles of selection and evaluation of audio-visual materials, techniques for using these teaching materials in the classroom, laboratory experience in the operation of equipment, and previewing materials available for use in the Virginia public schools.

LS. 486. *Senior Seminar in Library Service for Schools*, 3 credits.

Focuses on the school librarian's services in the teaching of library research methods, and as resource person for educators in the planning for instruction and curriculum. In addition, students will undertake activities to demonstrate their competence in various aspects of school librarianship, and will read about and discuss current activities and new developments in the library profession. *Prerequisites: Senior standing and fifteen semester hours in Library Science.*

LS. 490. *Special Studies in School Librarianship*, 1-3 credits each semester.

Independent study of a specific topic in school librarianship. Offered only with consent of the Head of the Department.

LS. 501. *Workshops in Library Science*, 3 credits.

Concentrated workshops designed for the continuing professional development of school personnel for more effective provision and utilization of school library services and resources. Each workshop will deal with a topic of current concern, with emphasis on practical methods and projects. *Prerequisite: Collegiate Professional Certificate or permission of Head of Department.*

LS. 510. *Building Library Collections*, 3 credits.

Principles and procedures for developing multi-media library collections. Study of reviewing media and bibliographies for print and non-print materials. Developing standards of judgment for selection of materials of quality for depth within subject areas and for breadth of coverage. *Prerequisite: Collegiate Professional Certificate or permission of Head of Department.*

LS. 520. *Literary Enrichment Activities*, 3 credits.

Activities for teachers and librarians for developing the enjoyment of books in elementary and secondary students. Experience in such skills as storytelling, book talks, broadcast programs, creative dramatics and puppetry, and the preparation of annotated book lists. *Prerequisite: Collegiate Professional Certificate or permission of Head of Department.*

LS. 530. *Special Problems in Cataloging*, 3 credits.

Instruction and experience in the methods of handling the special problems that arise in the cataloging of some of the printed and non-printed materials in the multi-media library. The course assumes that the student already has a basic knowledge of library cataloging and classification by the Dewey Decimal system. *Prerequisites: LS. 365 or equivalent, and permission of Head of the Department.*

# DEPARTMENT

## of Psychology

DR. DAVID P. HANSON, *Head of the Department*

*Professors* BILSKY, C. CALDWELL, W. ENGEL, W. HALL, D. HANSON, HART, HAYNES, MUNDY, and REUBUSH

*Associate Professors* BUTLER, C. HARRIS, KUHN, R. OLIVAS, SHAFER, and C. SWANSON

*Assistant Professors* J. COUCH, L. DANIELS, J. DRIVER, FINLAYSON, LYCZAK, MCINTIRE, J. MCKEE, H. MOORE, M. SINGER, and B. WILLS

*Instructors* M. DYER, E. FARNEN, J. OSBORN, and K. STEIN

The Department of Psychology is oriented toward developmental-humanistic psychology with three broad aims: (1) to prepare students majoring in Psychology either for employment in human service fields after the bachelor's degree or for graduate work by offering them a rigorous background in psychology; (2) to assist students in acquiring basic psychological knowledge in order to help themselves and others, and (3) to provide service courses to students in other programs, particularly in the Education fields.

For the student majoring in Psychology, the program is designed in two directions: (1) those planning to do graduate work to attain a higher professional/scientific level of competency, (for example, teaching in higher education, clinical or school psychology, counseling, research, etc.) and; (2) those who wish to end their studies at the bachelor's level to enter a service occupation, e.g., probation workers, employment interviewers, or institutional services (for example, homes for the aged, day care centers, institutions for the retarded, etc.)

The first approach is often more theoretical and scientific, while the second approach is a nonprofessional application of psychology to human service fields.

The required courses for a major in Psychology are: Psychology 231-232, General Psychology (or Psychology 233-234, Human Growth and Development) and 28 semester hours of elective course work. *All other psychology courses are elected through close faculty-student*

*advisement*. Students should plan an appropriate program of study with their advisors.

If Psychology 233-234 is taken instead of Psychology 231-232, six additional hours of social science must be taken to meet the Basic Studies requirements. A maximum of nine hours of credit toward hours required for graduation may be earned by a student taking both Psychology 231-232 and Psychology 233-234.

Students majoring in Psychology are urged to elect one or more courses in developmental psychology. A maximum of 12 semester hours of 200 level courses in psychology may be taken toward the major. A minor in Psychology will include Psychology 231-232 (or Psychology 233-234) and twelve additional semester hours in Psychology as recommended by the Head of the Department.

### THE PSYCHOLOGY REQUIREMENT FOR EDUCATION MAJORS

Madison College requires six semester hours of Human Growth and Development (Psyc. 233-234) for certification to teach at either the elementary or secondary level.

Twelve semester hours of General Psychology *and* Human Growth and Development (Psyc. 231-232; Psyc. 233-234) *are not* acceptable; however, nine semester hours in these two areas will be accepted.

Students who have had a full year of General Psychology at Madison or at another college and are now planning to teach should *not* take a *full* year of Psychology 233-234. Those with three semester hours of General Psychology *can* receive credit for six semester hours of Human Growth and Development.

Elementary Education majors with six semester hours of General Psychology should select two courses from the following: Psyc. 234, Psyc. 369, Psyc. 379, Psyc. 480.

Secondary Education minors with six semester hours of General Psychology should select one course from the following: Psyc. 234, Psyc. 379, Psyc. 478.

Those students with problems concerning the psychology requirement for teacher education certification should see the Head of the Department or the Dean of the School of Education for advisement.

The Department of Psychology has graduate programs in School Psychology and Counselor Education. Inquiries should be directed to the Office of Graduate Studies, or Program Coordinators in the Psychology Department.

### Recommended Four Year Program For Psychology Majors

#### FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Art 200. Art in General Culture or			
Mus. 200. Music in General Culture .....	0	3	3
Eng. 101-102. Reading and Composition .....	3	3	3
Hist. 255-256. History of Civilization .....	3	3	3
Math. 105-106. Finite Mathematics .....	3	3	3
Psyc. 231-232. General Psychology .....	3	3	3
Comm. 200. Oral Communication .....	3	0	0
Basic Studies Physical Education .....	1	1	1
		—	—
		16	16

#### SOPHOMORE YEAR

Basic Studies Literature .....	3	0	0
Basic Studies Natural Science .....	4	4	4
Psychology Electives .....	3	6	6
Electives .....	6	6	6
		—	—
		16	16

#### JUNIOR YEAR

Basic Studies Physical Education .....	1	0	0
Psychology Electives .....	6	7	7
Electives and/or added requirements for B.A. or B.S.* .....	9	9	9
		—	—
		16	16

#### SENIOR YEAR

Psychology Electives .....	6	6	6
Electives and/or added requirements for B.A. or B.S.* .....	10	10	10
		—	—
		16	16

\*These are added requirements for the B.A. degree: Phil. 3 SH, Language 6-14 SH. These are added requirements for the B.S. degree: Natural Science 4 SH, Social Science 3 SH.

## Recommended Electives for Psychology Majors Interested in Graduate Study (B.A. or B.S.)

### REQUIRED COURSES

Psyc. 231-232    General Psychology

### *Electives*

Psyc. 355    Research Methods in Psychology  
Psyc. 356    Experimental Psychology  
Psyc. 357    Psychology of Personality  
Psyc. 358    Abnormal Psychology  
Psyc. 359    Psychological Statistics  
Psyc. 360    Physiological Psychology  
Psyc. 386    History and Systems  
Psyc. 479    Psychology of Learning  
Psyc. 485    Psychology of Motivation  
Psyc. 487    Social Psychology  
Psyc. 488    Mental Tests and Measurements

## Recommended Electives for Psychology Majors Terminating at the Bachelor's Level (B.A. or B.S.)

### REQUIRED COURSES

Psyc. 231-232    General Psychology

### *Electives*

Psyc. 250    Psychology of Adjustment  
Psyc. 355    Research Methods in Psychology  
Psyc. 356    Experimental Psychology  
Psyc. 357    Psychology of Personality  
Psyc. 358    Abnormal Psychology  
Psyc. 359    Psychological Statistics  
Psyc. 386    History and Systems  
Psyc. 487    Social Psychology  
Psyc. 488    Mental Tests and Measurements  
Psyc. 491    Modern Clinical Psychology  
Psyc. 522    Advanced Abnormal Psychology

Other electives are listed under the course descriptions.

Psychology students must select their electives in conjunction with their advisors, and in keeping with their career goals. *It is important for psychology students to plan a three or four year program of study with their advisors in order to insure that all basic studies requirements are met. (See catalog description entitled, "Basic Studies".)*

## Description of Courses

Psyc. 100. *Psychology for Students of Nursing* (Summer only), 3 credits.

*Open only to student nurses of the Rockingham Memorial Hospital.*

Psyc. 200. *Interpersonal Skills for Resident Advisors*, 1 credit.

Designed to give resident advisor trainees understanding of interpersonal relations. Enrollment is limited to students selected as resident advisors.

Psyc. 215. *Principles of Industrial Psychology I*, 3 credits.

A basic introduction to the role of psychology in industrial settings. Course content includes discussions of worker efficiency, selection of employees, placing and training of employees, and organizational management.

Psyc. 216. *Principles of Industrial Psychology II*, 3 credits.

Motivation of workers, communications, leadership, work groups, hierarchial organization and unionization.

Psyc. 225. *Psychology of Careers*, 3 credits.

Describing vocational development as part of individual growth, content is drawn from vocational psychology.

Psyc. 231-232. *General Psychology*, 6 credits.

An introduction to scientific and professional psychology.

Psyc. 233-234. *Human Growth and Development*, 6 credits.

Designed to develop an understanding of the principles and theories of human growth and development and to create an awareness of the factors which influence human behavior. Case studies and observations of children are required aspects of this course. This course is specifically designed to meet the Virginia certification requirements in the area of human growth and development.

Psyc. 250. *Psychology of Adjustment*, 3 credits.

The dynamics of healthy adjustment are contrasted with maladjustment. Principles of mental health should lead students to improve self-understanding.

Psyc.-Eng. 300. *Exploring Personality Through Literature*, 6 credits.

A six-credit hour survey of personality theory approached through readings in literature and psychology. Students are required to enroll in Eng. 300 and Psyc. 300 simultaneously. *Prerequisites: Psyc. 231-232 or 233-234, Eng. 101-102, plus three hours chosen from basic studies requirements in literature.*

Psyc. 320. *Perception and Information Processing*, 3 credits.

This course explores the nature and development of human sensory capabilities, the manner in which sensory information is processed and stored, and how these mechanisms affect one's perception of the environment.

Psyc. 355. *Research Methods in Psychology*, 3 credits.

Designed for the undergraduate major in Psychology. An introduction to descriptive and inferential statistics, sampling theory principles, and basic experimental design. *Prerequisites: Psyc. 231-232 and Math. 105 or equivalent.*

Psyc. 356. *Experimental Psychology* (3, 2), 4 credits.

Emphasis is placed upon experimental methodology as applied to problems relating to such topics as the physiological bases of behavior, sensory and perceptual processes, psychophysical and scaling methods, learning, emotion, and motivation. Attention is given to design and conduct of experiments, data analyses, and reporting of results. *Prerequisite: Psyc. 355 or permission of instructor.*

Psyc. 357. *Psychology of Personality*, 3 credits.

Essential elements of several leading theories of personality development with emphasis on implications and applications of these theories to human adjustment.

Psyc. 358. *Abnormal Psychology*, 3 credits.

The origin, symptoms, and classification of mental abnormalities.

Psyc. 359. *Psychological Statistics*, 3 credits.

Descriptive and inferential statistics as applied to experimental psychology. Includes measurement, derived scores, central tendency and variation, significance tests, correlation and regression, variance analyses, and selected nonparametric techniques. *Prerequisite: Psyc. 355.*

Psyc. 360. *Physiological Psychology*, 3 credits.

An examination of the physiological correlates which determine behavior.

Psyc. 369. *Psychology of Early Childhood* (2, 2), 3 credits.

The psychology of the young child and philosophy and techniques of early childhood education are examined. *Prerequisites: Psyc. 233-234 or equivalent.*

Psyc. 379. *Educational Psychology*, 3 credits.

Study of the applications of psychological principles to the classroom setting for education students.

Psyc. 386. *History and Systems of Modern Psychology*, 3 credits.

The development of the history and systems of psychology is studied, with emphasis on recent developments.

Psyc. 400. *Topics in Psychology*, 1-3 credits.

Exploration of a significant psychological topic in depth. The topic for each semester will be announced. *Prerequisites: Psyc. 231-232 or 233-234.*

Psyc. 458. *Field Work in Abnormal Psychology* (1, 3), 3 credits.

Offers advanced students experiences at area mental hospitals and community agencies. Students will be under the supervision of their instructor and hospital staff personnel. *Prerequisite: Psyc. 358 or equivalent, or permission of instructor.*



Psyc. 478. *Growth and Development in Adolescence*, 3 credits.

Examination of the essential nature of adolescence. Open to all students, this course is particularly valuable for students preparing to work with adolescents.

Psyc. 479. *Psychology of Learning*, 3 credits.

Examining the basic principles of learning and conditioning, consideration will be given to extinction, reinforcement, generalization, discrimination, transfer, concept formation and verbal learning. *Prerequisites: Psyc. 231-232, or Psyc. 233-234.*

Psyc. 480. *Laboratory in Child Study (2, 2)*, 3 credits.

Designed for students in the early childhood curricula, this course deals with sources of data about children, collecting and recording these data, techniques used in analyzing data about children, and the application of results to provide better learning environments. Students are required to make observations of, and participate in, early childhood education programs.

Psyc. 481. *Maturity and Aging*, 3 credits.

The physical, social, and psychological factors faced by the adult and the progression through his life span.

Psyc. 485. *Psychology of Motivation*, 3 credits.

An advanced study of motivation in relation to perception, learning, emotions, and problem solving. *Prerequisites: Psyc. 231-232, or Psyc. 233-234.*

Psyc. 487. *Social Psychology*, 3 credits.

A study of the psychological factors involved in social behavior, this course considers the interaction of personalities in society, which result in social attitudes, culture and institutions. Phenomena as customs, crowd behavior, clubs, public opinions, propaganda, leadership, and problems of community life will be considered.

Psyc. 488. *Mental Tests and Measurements*, 3 credits.

Standardized psychological tests of mental ability, achievement, aptitude and personality. A brief review of statistical procedures necessary for interpretation of test results is included. *Prerequisites: Psyc. 231-232 or Psyc. 233-234 or equivalent.*

Psyc. 490. *Special Studies in Psychology*, 1-3 credits each semester.

Gives select students an opportunity to do independent study of psychological topics with faculty guidance. A written plan for the proposed study must be submitted to the Head of the Department for approval one week prior to registration. A guideline-description is available in the Psychology Department Office. *Prerequisites: Written approval from advisor, project supervisor and Department Head (see guidelines).*

Psyc. 491. *Modern Clinical Psychology: Theory and Practice*, 3 credits.

An introduction to the field of clinical psychology. *Admission by permission of instructor.*

PSYC. 499. *Honors*, 6 credits. Year Course.

(See catalogue description entitled, "Graduation With Distinction and With Honors".)

PSYC. 510. *Advanced Developmental Psychology*, 3 credits.

The origins and development of behavior during the prenatal period and through adolescence.

PSYC. 522. *Advanced Abnormal Psychology*, 3 credits.

Emphasizing etiologies, symptoms and therapies of the neuroses and psychoses, this course also includes the relation of the professions to psychopathology.

### Counselor Education

CoED. 475. *The Teacher's Role in Counseling and Guidance*, 3 credits.

Study of the principles of effective school guidance activities with emphasis on the role of the teacher in the guidance program.

CoED. 501. *Workshops in Guidance* (Summer), 1-3 credits.

Designed to provide an intensive study of a particular topic in guidance.

CoED. 510. *Contemporary Issues in Counseling*, 3 credits.

An in-depth examination of contemporary issues including counselor ethics, ethnic group relations, sexism, differing life patterns and racism.

CoED. 520. *Dynamics of Mental Health*, 3 credits.

A detailed study of the personal and social factors which are related to the development of individual mental health and mental illness.

CoED. 530. *Counseling in Elementary Education*, 3 credits.

A detailed study of the roles of counselors and guidance personnel in elementary schools. Emphasis in counseling techniques is stressed.

CoED. 540. *Personnel Services in Higher Education*, 3 credits.

A detailed study of the personnel services offered in colleges and universities.

CoED. 550. *Organization and Administration of Guidance Programs*, 3 credits.

An in-depth consideration of the theory, philosophy, principles, organization, and personnel practices involved in pupil personnel services.

THE UNIVERSITY OF CHICAGO  
DEPARTMENT OF CHEMISTRY

RESEARCH REPORT  
No. 100

BY  
J. H. GOLDSTEIN

AND  
M. L. HUGGINS

DEPARTMENT OF CHEMISTRY  
UNIVERSITY OF CHICAGO

CHICAGO, ILLINOIS  
1950

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RESEARCH REPORT  
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# DEPARTMENT

## of Special Education Services

DR. LARRY L. DYER, *Head of the Department*

Professors T. CHRISTIANSEN, LOGUE

Associate Professors DYER, KIDD, and O'HARE

Assistant Professors MORRIS, STARKEY, and YANKER

Instructor BURNS

The basic objectives of the undergraduate programs of the Department of Special Education Services are as follows: (1) to prepare students to teach the mentally retarded, emotionally disturbed, and speech handicapped; (2) to offer minor programs which fit the professional needs of students majoring in other departments.

### MAJOR PROGRAMS

The department offers major programs in behavior disorders, mental retardation, and speech pathology. The programs are designed to qualify the student for the Virginia Collegiate Professional Teaching Certificate.

Students interested in the Mental Retardation Program must take a basic core of courses in special education. Completion of the basic core will enable the student to meet Virginia Certification requirements to teach the mentally retarded. Students may also elect to take additional coursework which will provide experience in teaching a particular level or category of retarded (e.g., adolescent retarded; trainable retarded). Students should consult with advisors about options available to them in the Mental Retardation Program.

Students enrolled in the Behavior Disorders Program take coursework which prepares them to teach emotionally disturbed children in a public school setting. However, students have the option to receive training in working with severely disturbed children in residential settings. Students interested in this option should consult with advisors.

Students enrolled in the Speech Pathology Program take coursework which enables them to meet Virginia Certification requirements for employment as speech therapists in public school settings.

To qualify for graduation from any program offered by the department, students are required to complete 128 semester hours of prescribed and elective courses.

### MINOR PROGRAMS

The minimum requirement for a minor in general special education is eighteen (18) semester hours including Special Education 340 (The Exceptional Child), Special Education 370 (Survey of Learning Problems of the Handicapped) and eleven (11) additional semester hours of approved course work in special education. Students are urged to select these eleven (11) hours from among the following special education courses: Special Education 350 (The Gifted), Special Education 345 (The Emotionally Disturbed Child), Special Education 360 (The Mentally Retarded), Special Education 365 (The Culturally Disadvantaged), Special Education 420 (Practicum in Special Education); and Special Education 514 (Seminar in Special Education).

The minor in speech pathology requires a minimum of eighteen (18) semester hours of course work including Speech Pathology 200 (Speech Correction), Speech Pathology 214 (Advanced Speech Correction), and twelve (12) additional semester hours of approved coursework in speech pathology.

Completion of the minor programs in general special education and speech pathology will not qualify the student for endorsement to teach in those areas.

### PROGRAM REQUIREMENTS

All students who major in the Department of Special Education Services must take the following courses:

Art 200 or Music 200  
Biology 100  
Communication 200  
Education 360, 470, 480  
Elementary Education 359  
English 101, 102  
Health 200  
History 233 or 234  
History 255, 256  
Psychology 233, 234, 488

In addition to the requirements on page 321, students must elect the indicated number of semester hours in each of these Basic Studies areas: English Literature (3), Mathematics (6), Natural Science (4), Physical Education (3), and Social Science (6) (See pgs. 69-70).

### **BEHAVIOR DISORDERS PROGRAM**

Students who major in behavior disorders must take Elementary Education 358 and 439; Psychology 369 or 478; Special Education 150, 250, 340, 345, 355, 370, 380, 420; and six semester hours selected from Art 310 or 314; Guidance 530; Special Education 406.

Majors in this program take 17 hours of elective coursework. Recommended electives are as follows: Library Science 240; Music Education 375; Science 310; Special Education 505, 512; and Sociology 427.

### **MENTAL RETARDATION PROGRAM**

Students who major in mental retardation must take Art 310 or 314; Elementary Education 358; Special Education 150, 250, 340, 360, 370, 380, 427, 428; Speech Pathology 200; and three semester hours selected from Guidance 530 or Special Education 406.

Majors in this program take 20 hours of elective coursework. Recommended electives are as follows: Home Economics 180; Library Science 240; Music Education 375; Physical Education 387; Science 310; Special Education 505, 512.

Students who desire competence in teaching the adolescent or trainable mentally retarded should consult their advisors for appropriate electives.

### **SPEECH PATHOLOGY PROGRAM**

Students who major in speech pathology must take Sociology 139; Special Education 340; Speech Pathology 200, 214, 220, 221, 260, 301, 315, 316, 318, 370.

Majors in this program take 21 hours of elective coursework. Students who desire to minor in psychology may include Psychology 233-234, 488, and nine additional hours selected from Psychology 357, 358, 369, 478, 479, and 510.

### **ADVISORY SYSTEM**

Students who major in the Department of Special Education Services are assigned advisors to aid them in all phases of the aca-

demographic program. Students are urged to consult closely with their advisors on academic matters. Students who desire sample copies of their four-year programs in special education or speech pathology may secure these from departmental offices or from their advisors.

## Description of Courses

### Special Education

SPED. 150. *Introduction to Special Education*, 1 credit.

Designed to give the student occupational and educational information about careers in special education. Opportunities are provided for observation and interaction with exceptional children. Intended for special education majors only.

SPED. 250. *Community Resources in Special Education*, 1 credit.

A detailed study of local and national agencies and organizations public, private, and professional which promote special education. The role of federal legislation in the education of the handicapped is stressed. Intended for special education majors only.

SPED. 340. *The Exceptional Child*, 4 credits.

Introduction to the education and psychology of exceptional children. The nature, needs, and problems of exceptional children and how these relate to educational provisions are studied.

SPED. 345. *The Emotionally Disturbed Child*, 3 credits.

An historical overview of theories concerning causes of psychopathology of children. The identification and analysis of abnormal personality characteristics of children will be discussed. Attention will also be given to methods of prevention and treatment as these relate to teacher education. *Prerequisite: SpEd. 340*

SPED. 350. *The Gifted*, 3 credits.

An introduction to the nature, needs, problems, and education of the gifted.

SPED. 355. *Education of the Emotionally Disturbed*, 3 credits.

A study of the specialized curricula and methods used for teaching the emotionally disturbed. Work with exceptional children may be required. *Prerequisite: SpEd. 345.*

SPED. 360. *The Mentally Retarded*, 3 credits.

A detailed study of the characteristics, diagnosis, treatment, and education of the mentally retarded. *Prerequisite: SpEd. 340.*

SPED. 365. *The Culturally Disadvantaged*, 3 credits.

A detailed study of the nature of cultural deprivation. The characteristics, diagnosis, treatment, and education of the culturally deprived are discussed.

SPED. 370. *Survey of Learning Problems of the Handicapped*, 3 credits.

A survey of the significance of various learning principles as applied to the handicapped. The focus in the course is upon the special learning problems of the blind, the deaf, the retarded, the disturbed, and the learning disabled. *Prerequisite: SpEd. 340.*

SPED. 380. *Teaching Language Arts to the Exceptional Child*, 3 credits.

An introduction to the methods, materials, and activities essential to teaching reading, writing, spelling, listening and other language arts skills to exceptional children. *Prerequisite: SpEd. 340.*

SPED. 390. *Field Experience in Special Education*, 6 credits.

This course is designed to provide the student with a variety of field experience work with retarded children. Included in these experiences are tutorial work, work with small groups, and student teaching. These experiences are sequentially arranged to provide for maximum effectiveness. *Prerequisite: SpEd. 360.*

SPED. 406. *Rehabilitation Techniques in Special Education*, 3 credits.

A study of the habilitation and rehabilitation services which are available for the handicapped. The relationship of these services to the educational program is emphasized. *Prerequisites: SpEd. 340 and permission of instructor.*

SPED. 420. *Practicum in Special Education*, 3 credits.

Designed for the student who desires an "internship type" of supervised experience to meet a special or unique need. *Prerequisite: permission of instructor.*

SPED. 427. *Curriculum Development in Mental Retardation*, 3 credits.

A detailed study of curricular materials, commercial and teacher prepared, applicable to the mentally retarded. The focus of the course is upon historical concepts relating to mental retardation programs and curriculum development. *Prerequisite: SpEd. 360.*

SPED. 428. *Teaching the Elementary School Mentally Retarded*, 3 credits.

A study of the curricula and methods used in teaching the primary and intermediate level mentally retarded. The student is taught the fundamentals of writing course objectives, planning daily lessons, modifying instruction techniques for retarded children, and evaluating the results of instruction. *Prerequisite: SpEd. 427.*

SPED. 438. *Teaching the Secondary School Mentally Retarded*, 3 credits.

A study of the curricula and methods used in teaching the secondary level mentally retarded. The focus of the course is upon work-study programs for the adolescent retarded. *Prerequisite: SpEd. 427.*

SPED. 440. *Counseling Parents of Exceptional Children*, 3 credits.

A study of the methods special educators can use in counseling with parents of exceptional children about the educational and behavioral problems of their exceptional child. *Prerequisite: SpEd. 340.*



SPED. 448. *Teaching the Severely Retarded*, 3 credits.

A study of the programs, curricula, materials, and methods used in teaching the trainable mentally retarded. Consideration is given to curricula and methods of teaching institutionalized mentally retarded. *Prerequisite: SpEd. 427.*

SPED. 454. *Personal and Vocational Guidance for the Retarded*, 3 credits.

A detailed study of the information needed by the retarded adolescent for personal and vocational adjustment. Problems encountered by the retarded in social relations, marriage and family life, and at work are emphasized. *Prerequisite: SpEd. 360.*

SPED. 490. *Special Studies in Special Education*, 1-3 credits each semester.

Designed to allow the student to do independent study under faculty supervision (Offered only with consent of the Head of the Department.)

SPED. 501. *Workshops in Special Education* (Summer), 1-3 credits.

Designed to provide an intensive study of a particular topic in special education. *Prerequisite: SpEd. 340.*

SPED. 505. *Psychoeducational Analysis in Special Education*, 3 credits.

A study of curricular adjustment procedures as determined by intellectual, social, emotional, and physical data about the individual. The focus of the course is upon methods of diagnosing the learning strengths and limitations of the individual. *Prerequisites: SpEd. 340, Psyc. 488 and permission of instructor.*

SPED. 512. *Behavior Management in the Classroom*, 3 credits.

An application of behavior modification techniques to the control of discipline problems in the classroom. The use of these principles as an aid in learning is also stressed. *Prerequisite: permission of instructor.*

SPED. 514. *Seminar in Special Education*, 3 credits.

An intensive study of current problems and issues in special education. *Prerequisites: SpEd. 340 and permission of instructor.*

## Speech Pathology

SPPA. 200. *Speech Correction*, 3 credits.

An introduction to the field of speech correction. Consideration is given to the cause and treatment of communication disorders, as well as clinical and classroom procedures in public school speech improvement and therapy programs. Opportunity for observation of activities in the Speech and Hearing Center is provided.

SPPA. 214. *Advanced Speech Correction*, 3 credits.

A study of the etiology and nature of those communication problems most frequently encountered in public schools, with special emphasis upon remedial techniques utilized with articulation disorders and delayed language development. The organization and administration of the public school speech therapy program

is included. Opportunity for participation in clinical activities, under supervision, in the Speech and Hearing Center is provided. *Prerequisite: SpPa. 200.*

SPPA. 220. *Anatomy and Physiology of the Ear and Voice Mechanism*, 3 credits.

A study of the anatomy and physiology of the hearing and speech mechanisms. Attention is given to anomalies affecting speech production.

SPPA. 221. *Clinical Phonetics*, 3 credits.

An introduction to the relation of phonetic principles of speech and language therapy in clinical and classroom situations. Clinical applications of phonetics, including phoneme analysis, research findings in experimental and acoustic phonetics, and proficiency in translation and transcription of the International Phonetic Alphabet are emphasized.

SPPA. 250. *Methods in Speech and Hearing Therapy*, 3 credits.

This course will familiarize the student with methods and materials for speech therapy in various settings. *Prerequisite: SpPa. 200.*

SPPA. 260. *Clinical Practicum in Speech Pathology*, 2 credits.

An introduction to clinical activities with opportunity for clinical involvement in the Speech and Hearing Center, in both diagnostic and remedial activities. Individual supervision is maintained by staff consultants. *Prerequisite: SpPa. 200.*

SPPA. 301. *Audiology*, 3 credits.

An introduction to the symptoms, causes, and treatment of hearing disorders. Hearing test instrumentation and interpretation in clinical situations is emphasized.

SPPA. 315. *Organic Speech Disorders*, 3 credits.

A comprehensive analysis of etiologies and theories of organic speech disorders. Emphasis is placed upon the diagnosis and treatment of physiologically related communication disorders, with the inclusion of selected therapeutic techniques pertaining to cleft palate and voice cases. *Prerequisite: SpPa. 214.*

SPPA. 316. *Clinical Procedures in Speech Pathology*, 3 credits.

Clinical procedures in the areas of stuttering, cerebral palsy, and aphasia are stressed, with special emphasis on remedial techniques. Observation and participation in the Speech and Hearing Center are required. *Prerequisite: SpPa. 214.*

SPPA. 318. *Aural Rehabilitation*, 3 credits.

Concentrated attention is given to communication problems of the hearing handicapped. Aural rehabilitation is emphasized, including lip reading and auditory training. *Prerequisite: SpPa. 301.*

SPPA. 370. *Clinical Practicum in Speech Pathology*, 2 credits.

Clinical practice in the diagnosis and rehabilitation of children with communication handicaps. Programs are individually structured to provide the student with a variety of clinical experiences in the Speech and Hearing Center and other practicum sites. Individual supervision is maintained by staff consultants, with weekly group and individual conferences scheduled. *Prerequisite: SpPa. 200.*

SPa. 490. *Independent Study in Speech Pathology*, 1-3 credits each semester.

Designed to allow the student to do independent research under faculty supervision.

SPa. 501. *Workshops in Speech Pathology* (Summer), 1-3 credits.

Designed to provide a detailed study of a topic of interest in speech pathology.

SPa. 503. *Seminar in Speech Pathology*, 3 credits.

A study of the current trends and issues in speech pathology. *Prerequisites: SpPa. 214 and permission of instructor.*

SPa. 540. *Language Disorders*, 3 credits.

A comprehensive study of the etiology and remediation of language disorders in communicatively-impaired children. Specific diagnostic procedures and remedial models will be included in relation to delayed language development resulting from mental retardation and learning disabilities.

# DEPARTMENT

## of Physical and Health Education

DR. MARILYN CRAWFORD, *Head of the Department*

*Professors* BRUCE, CRAWFORD, and MORRISON

*Associate Professors* HURT, R. MARTIN, E. MILLER, RADER, and RUMMEL

*Assistant Professors* ARNOLD, CAMPANELLI, EHLERS, GEIL, J. HAYNES, HARRIS, M. HORN, JAYNES, KRUGER, MILLS, MYERS, O'DONNELL, SCHELL, and VANDERWARKER

*Instructors* ARBOGAST, BABCOCK, BALOG, CHAMBERS, DALTON, FELDMAN, FRATELLO, McMILLIN, WISLER, and WOITKE

The Department of Physical and Health Education is organized to contribute to the general education of all students and to prepare students for professional careers in health and physical education.

The minimum requirement for a major in physical and health education is thirty-six (36) semester hours beyond the Basic Studies requirement.

Students seeking teacher certification in secondary education should take the following courses: Health 300 (The School Health Program), History 233 or 234 (United States History), Education 360 (Foundations of Curriculum), Secondary Education 370 (Methods and Materials in Teaching in The Secondary School), Education 470 (History and Philosophy of Educational Thought), Education 480 (Directed Teaching), and Psychology 233-234 (Human Growth and Development). Students seeking endorsement in Driver Education must take Health 203 (Elements of Injury Control) and Health 304 (Traffic and Driver Safety).

Students who wish to teach physical education in elementary schools should *either* major in elementary education and minor in physical education (See Option I) *or* seek certification in secondary physical education and complete the following additional courses: Elementary Education 369 (Methods and Materials in Teaching in the Elementary Grades); Physical Education 345 (Dance in the Elementary School);



Physical Education 382 (Movement Education in the Elementary School); Physical Education 482 (Organization and Administration of Elementary School Physical Education) and Physical Education 486 (Adapted Physical Education).

The Department of Physical and Health Education offers an inter-departmental major in health with a minimum requirement of thirty-six (36) semester hours.

A minor in the Department of Physical and Health Education is available; a student may select one of the following options:

*Option I. Physical and Health Education.* (Available only to students majoring in elementary education.) Twenty-four (24) semester hours are required including Physical Education 255 (Survey of the Folk Forms of Dance), Physical Education 271 (Techniques of Tumbling-Apparatus), Physical Education 272 (Techniques of Gymnastics-Track and Field), Physical Education 283 (Basic Skills and Fundamentals of Movement), Physical Education 345 (Dance in the Elementary School), Physical Education 381 (Activities for Children), Physical Education 382 (Movement Education in the Elementary School), Physical Education 383 (Mechanical Analysis of Movement), Physical Education 386 (Meanings and Values of Movement), Physical Education 482 (Organization and Administration of Elementary School Physical Education), Physical Education 486 (Adapted Physical Education), Health 204 (Emergency Health Care), and Health 300 (The School Health Program). In order to qualify as an elementary physical education specialist, an additional twelve (12) hours are required, including Physical Education 384 (Physiology of Muscular Activity), Physical Education 385 (Psychology of Motor Performance), and the additional hours to be selected with the advice of the minor advisor.

*Option II. Coaching.* Eighteen (18) hours are required in the Department, including Physical Education 383 (Mechanical Analysis of Movement), Physical Education 385 (Psychology of Motor Performance), Physical Education 484 (Problems in Administration), Health 204 (Emergency Health Care), Health 205 (Care and Prevention of Athletic Injuries) and five (5) additional hours from the Techniques of Sports classes, to be selected with the approval of the minor advisor.

*Option III. Health.* Eighteen (18) hours are required in the Department, including Health 200 (Elements of Health Education) or Health 306 (Health Problems of Young Adults), Health 314 (Principles of Community Health) or Health 320 (Environmental Health), Health 220 (Sexuality of Young Adults), or Health 318 (The Use and Effects of Drugs), Health 204 (Emergency Health Care), Health 300 (The School Health Program), Health 403 (Advanced Health), and four (4) additional hours to be selected with the advice of the minor advisor.

*Option IV. Dance.* Eighteen (18) hours are required in the Department including the three (3) basic studies, Physical Education 386 (Meanings and Values of Movement), five (5) hours of intermediate or advanced level courses in dance and six (6) additional hours to be selected with the advice of the minor advisor.

*Option V. Aquatics.* Eighteen (18) hours are required in the Department including Physical Education 260 (Intermediate Swimming) or Physical Education 267 (Advanced Swimming), Physical Education 264 (Senior Lifesaving and Lifeguard Training ARC and YMCA), Physical Education 366 (Aquatic Instructor Training ARC and YMCA); Physical Education 367 (Aquatic Leadership Training), Physical Education 368 (Organization and Administration of Aquatic Programs in Schools, Communities and Camps); two (2) semester hours to be selected from Physical Education 261 (Beginning Springboard Diving), Physical Education 263 (Skin and Scuba Diving), Physical Education 363 (Aquatic Sports), Physical Education 268 (Synchronized Swimming), and Physical Education 361 (Intercollegiate Swimming); and six (6) semester hours to be selected from Physical Education 460 (Field Work in Aquatics), Physical Education 464 (Techniques in Competitive Swimming, Diving and Water Polo), and Physical Education 465 (Construction, Design, Operation and Maintenance of Aquatic Facilities).

Students interested in a program offered by the Department of Physical and Health Education should consult Dr. Marilyn Crawford, Godwin Hall.

An Equitation Instructor Training Program is available to Madison College students; consult Dr. Marilyn Crawford, Godwin Hall.

**Four-Year (B.S. Degree) Program for Majors in Physical and Health Education (128 Credits)**

FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Bio. 100. The Spectrum of Life .....	4	0	
Chem. 110. General Chemistry (or Phys. 130, General Physics) (Non-Calculus) .....	0	4	
Eng. 101-102. Reading and Composition .....	3	3	
Math. 105. Finite Mathematics .....	3	0	
Math. 220. Elementary Statistics .....	0	3	
PE. 270. Techniques of Volleyball-Softball (W) Baseball (M) .	0	1	
PE. 283. Basic Skills and Fundamentals of Movement .....	1	0	
Basic Studies Art 200 or Mus. 200 .....	3	0	
Basic Studies Physical Education .....	1	1	
Basic Studies Social Science .....	0	3	
	<hr/>		
	15	15	

SOPHOMORE YEAR

Bio. 290. Human Anatomy .....	4	0	
Bio. 270. Human Physiology .....	0	3	
Comm. 200. Oral Communication .....	0	3	
Hth. 203. Elements of Injury Control .....	3	0	
Hth. 204. Emergency Health Care .....	1	0	
Hist. 233. or 234. United States History .....	0	3	
Hist. 255-256. History of Civilization .....	3	3	
PE. 255. Survey of Folk Forms of Dance .....	1	0	
PE. 256. Survey of the Theatre Forms of Dance (W) or 273. Techniques of Soccer (M) .....	0	1	
PE. 271. Techniques of Tumbling-Apparatus .....	1	0	
PE. 272. Techniques of Gymnastics, Track and Field .....	0	1	
Psyc. 233-234. Human Growth and Development .....	3	3	
Basic Studies Physical Education .....	1	0	
	<hr/>		
	17	17	



JUNIOR YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Educ. 360. Foundations of Curriculum .....	3	0	
SeEd. 370. Methods and Materials in Teaching in the Secondary School .....	0	2	
Hth. 300. The School Health Program .....	2	0	
Hth. 304. Traffic and Driver Safety .....	3	0	
PE. 371. Techniques of Field Hockey (W) or 372. Techniques of Football (M) .....	1	0	
PE. 373. Techniques of Basketball .....	1	0	
PE. 374. Techniques of Badminton-Archery .....	0	1	
PE. 375. Techniques of Fencing (W)/Wrestling (M)-Tennis ..	0	1	
PE. 378. Laboratory Experiences in Physical Education .....	1	0	
PE. 381. Activities for Children .....	1	0	
PE. 383. Mechanical Analysis of Movement .....	4	0	
PE. 384. Psychology of Muscular Activity .....	0	3	
PE. 385. Psychology of Motor Performance .....	0	3	
PE. 386. Meaning and Value of Movement .....	0	4	
PE. 485. Measurement and Evaluation in Physical Education ..	0	3	
	—	16	17

SENIOR YEAR

Educ. 470. History and Philosophy of Educational Thought ...	0	3
Educ. 480. Directed Teaching .....	8	0
Hth. 403. Advanced Health .....	3	0
PE. 483. Health and Physical Education in the Secondary Schools .....	2	0
PE. 484. Problems in Administration .....	0	3
Basic Studies Literature .....	3	0
Basic Studies Social Science .....	0	3
Electives .....	0	6
	—	16
		15

Four-Year Program (B.S. Degree) for a Major in Health  
(Pre-Public Health) (128 Credits)

FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Bio. 100. The Spectrum of Life .....	4	0	
Bio. 120. General Zoology .....	0	4	
Comm. 200. Oral Communication .....	0	3	
Eng. 101-102. Reading and Composition .....	3	3	
Math. 105-106. Finite Mathematics .....	3	3	
Basic Studies Art 200 or Mus. 200 .....	3	0	
Basic Studies Physical Education .....	1	1	
Electives .....	2	2	
	—	—	
	16	16	

SOPHOMORE YEAR

Bio. 270. Human Physiology .....	0	3	
Chem. 101-102. General Chemistry .....	4	4	
Hth. 200. Elements of Health Education .....	2	0	
Hth. 203. Elements of Injury Control .....	0	3	
Hth. 204. Emergency Health Care .....	0	1	
Math. 220. Elementary Statistics .....	3	0	
Psyc. 231-232. General Psychology .....	3	3	
Basic Studies Physical Education .....	0	1	
Electives .....	4	1	
	—	—	
	16	16	

JUNIOR YEAR

Bio. 280. General Microbiology .....	4	0	
Hth. 306. Health Problems of Young Adults .....	0	2	
Hth. 314. Principles of Community Health .....	3	0	
Hist. 255-256. History of Civilization .....	3	3	
Basic Studies Literature .....	0	3	
Electives .....	6	8	
	—	—	
	16	16	

SENIOR YEAR

Hth. 403. Advanced Health .....	3	0
Hth. 414. Field Work in Community Health .....	0	3
Psyc. 357. Psychology of Personality (or Psyc. 478. Growth and Development in Adolescence) .....	0	3
Psyc. 487. Social Psychology .....	3	0
SoSw. 287, 368. Introduction to Social Work; Community Organization .....	3	2
Electives .....	7	8
	16	16

### Description of Courses

#### Physical Education

PE. 105-106. *Physical Education Adapted Activities* (0, 3), 1 credit each semester.

Designed for students with severe medical restrictions and is adapted to individual needs. *Prerequisites: Recommendation of College Physician and permission of the Head of the Department.*

PE. 120-139. *Elementary Sports*<sup>o</sup> (0, 3), 1 credit.

Elementary level in specific individual and team sports: 120—Team Sports for Women; 121—Team Sports for Men; 122—Cycling; 125—Tennis; 126—Golf; 127—Archery; 128—Fencing; 129—Badminton; \*131—Skiing; \*133—Bowling; \*134—Equitation; 135—Volleyball; 136—Handball; 137—Squash; 138—Racquetball.

PE. 140-148. *Elementary Dance and Conditioning Activities* (0, 3), 1 credit.

Elementary level in specific types of dance and conditioning activities; 140—Modern; 141—Square and Round; 142—Ballet; 143—Folk and Social; 144—Weight Training; 145—Conditioning Activities for Women; 146—Conditioning Activities for Men; 148—Jogging.

PE. 147. *Repertory—Performance* (0, 3), 1 credit.

Analysis and performance of choreographed works. *Prerequisite: Dance experience and approval of the instructor.*

PE. 149. *Elementary Rhythmic Gymnastics* (0, 3), 1 credit.

The latest form of group gymnastics based on rhythms; swing movements using a variety of hand apparatus and music.

PE. 160. *Elementary Swimming* (0, 3), 1 credit.

Elementary levels of swimming strokes, personal safety, and rescue skills. (This course is designed for beginning swimmers who cannot swim. Students who can swim in deep water should plan to take PE. 260, Intermediate Swimming.)

\*PE. 220-239. *Intermediate Sports* (0, 3), 1 credit.

Intermediate level in specific individual and team sports: 223—Basketball; 224—Hockey; 225—Tennis; 226—°Golf; 227—Archery; 228—Fencing; 229—Badminton; 230—Wrestling; 232—Flag Football; 233—°Bowling (*Prerequisite: average 110*); 234—°Equitation; 235—Volleyball; 236—Softball; 237—Baseball; 238—Soccer; 239—Lacrosse.

PE. 240-243. *Intermediate Dance* (0, 3), 1 credit.

Intermediate level in specific types of dance: 240—Modern; 241—Square and Round; 243—Folk and Social. *Prerequisite: Elementary level or equivalent of the respective dance forms.*

PE. 245-246. *Dance Improvisation* (0, 3), 1 credit each semester. Year Course.

Emphasis on development of individual, group and environmental awareness, extending individual movement vocabulary and theory, and exploration of the interrelationships of the visual and theatre arts through structured improvisation. *Prerequisite: PE. 140 or permission of the instructor.*

PE. 247. *Repertory—Choreography* (0, 3), 1 credit.

Study of dance choreography, and the choreographing and directing of an original work. *Prerequisite: Dance experience and approval of the instructor.*

PE. 248. *Repertory—Notation* (0, 3), 1 credit.

The study and use of various systems of notating movement. *Prerequisite: Dance experience and approval of the instructor.*

PE. 254. *Intermediate Gymnastics* (0, 3), 1 credit.

Intermediate level performance using floor and hand apparatus.

PE. 255. *Survey of the Folk Forms of Dance* (0, 3), 1 credit.

Survey of the folk forms of dance with emphasis on traditional dance steps and figures, calling and prompting techniques, reconstruction of dances from written instructions and analysis of form.

PE. 256. *Survey of the Theatre Forms of Dance* (0, 3), 1 credit.

A survey of the concepts and movement vocabulary of the theatre dance forms commonly included in the high school physical education curriculum. *Prerequisite: PE. 140 or the equivalent. Appropriate only for majors in secondary physical education.*

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\*This course may include a second activity according to the season: both activities must be completed successfully in order to pass the course. Fees will be charged as follows for a semester class: bowling (tenpins) \$22.00; riding, \$240.00; skiing \$48.00, plus \$36.00 for equipment rental, if necessary. The College reserves the right to cancel any class should suitable facilities be unavailable and to alter prices in the event of unusual inflation.

PE. 260. *Intermediate Swimming* (0, 3), 1 credit.

Stroke development, fundamentals of diving, and rescue skills.

PE. 261. *Beginning Springboard Diving* (0, 3), 1 credit.

A course focusing on basic dives from the low board: forward, backward, inward, and twist, plus optional dives from the same categories. *Prerequisite: PE. 260, or PE. 267 or their equivalent.*

PE. 263. *Skin and SCUBA Diving* (0, 3), 1 credit.

Introduction to skin and SCUBA diving: diving techniques and hazards, purchase and use of equipment, physical conditioning for diving, and physical principles of diving.

PE. 264. *Lifesaving and Lifeguard Training ARC and YMCA* (0, 3), 1 credit.

Covers two nationally recognized lifesaving and lifeguard programs—American Red Cross and YMCA. Successful completion of the course leads to certification as Senior Life Saver and Life Guard. *Prerequisite: PE. 260 or PE. 267 or their equivalent.*

PE. 267. *Advanced Swimming* (0, 3), 1 credit.

Covers ten swimming strokes with emphasis on accuracy, endurance, swimming, breath control and body control skills, lifesaving prerequisites and advanced "drownproofing" techniques. *Prerequisite: PE. 260 or approval of the instructor.*

PE. 268. *Synchronized Swimming* (0, 3), 1 credit.

All forms of synchronized swimming and stunts, including participation, choreography, and performance. *Prerequisite: Advanced swimming skill and approval of the instructor.*

PE. 270-273. *Techniques of Activities* (0, 3), 1 credit.

Fundamental and advanced skills, strategy, rules and officiating techniques: 270—Volleyball-Softball (W)/Baseball (M); 271—Tumbling-Apparatus; 272—Gymnastics-Track and Field; 273—Soccer.

PE. 283. *Basic Skills and Fundamentals of Movement* (0, 2), 1 credit.

Stresses skills of movement and body mechanics. (Recommended for majors in elementary education. *Not acceptable for basic studies requirement.*)

PE. 285. *Community Recreation*, 2 credits.

Organization and administration of community recreation programs. Special attention is given to leadership skills. (An elective open to all students.)

PE. 286. *Camp Leadership* (1, 2), 2 credits.

Designed to develop those qualities and skills necessary for leadership in camping. Attention is also given to camping philosophies and organizational techniques. (Open to all students. Students without meal tickets will be charged up to \$4.00 for food for cookouts.)

PE. 315. *Advanced Tennis* (0, 3), 1 credit.

Fundamental and advanced skills and strategy for singles, doubles and mixed doubles play.

PE. 320-339. *Intercollegiate Sports* (0, 3), 1 credit.

Advanced level of skill and strategy, including competition during a full season on the intercollegiate team: 321—Track and Field; 322—Cross Country; 323—Basketball; 324—Hockey; 325—Tennis; 326—Golf; 327—Archery; 328—Fencing; 330—Wrestling; 332—Football; 334—Equitation; 335—Volleyball; 337—Baseball; 338—Soccer; 339—Lacrosse. (*Registration for credit must be approved by the Department Head.*)

PE. 340. *Advanced Modern Dance* (0, 2), 1 credit.

Modern dance technique, improvisation, and composition on an advanced level. *Prerequisite: PE. 240 or equivalent.*

PE. 345. *Dance in the Elementary School* (1, 3), 2 credits.

The movement and rhythmic components of dance and appropriate dances stressing inter-relationships with art, music, drama and developmental activities from other curricular areas. *Prerequisite: PE. 382.*

PE. 346. *Dance Production* (1, 2), 2 credits.

Lectures and laboratory experiences in organizing and presenting dance performances. Attention is given to recording, designing and executing costumes, sets, make-up, and lighting; dance photography and silk screening.

PE. 361. *Intercollegiate Swimming* (0, 3), 1 credit.

Advanced level of skill and strategy, including competition during a full season on the intercollegiate team. (*Registration for credit must be approved by the Department Head.*)

PE. 363. *Aquatic Sports* (0, 2), 1 credit.

Advanced swimming and diving skills and their use in synchronized swimming, competition, water games and related activities.

PE. 366. *Aquatic Instructor Training—ARC and YMCA* (1, 2), 2 credits.

Students successfully completing the course may be certified in American Red Cross Water Safety Instructor and YMCA Swimming Instructor. *Prerequisites: Senior Lifesaving and advanced swimming ability.*

PE. 367. *Aquatic Leadership Training*, 3 credits.

Presents various methods used in teaching aquatics—swimming, diving, aquatic sports of all types for all age groups. Also presented will be aquatic terminology, progression of skills, ability to analyze and prescribe, evaluation, evaluation research materials. *Prerequisites: PE. 260 or PE. 267 and PE. 264, or PE. 366.*

PE. 368. *Organization and Administration of Aquatic Programs in Schools, Communities and Camps*, 3 credits.

Designed to completely familiarize the student with the existing major aquatic programs in schools, "Y's", community, national and international organizations. Also, to plan aquatic programs for now and the future. Other topics include financing, publicizing, motivating attendance and legal relations as pertains to school and community programs. *Prerequisites: PE. 260 or PE. 267, and PE. 264 and PE. 366.*

PE. 370. *Physical Education for Children*, 2 credits.

A survey of the activity needs of children and the selection, organization, presentation and evaluation of activities appropriate in meeting these needs. *Prerequisites: Psyc. 233-234 or equivalent.*

PE. 371-376. *Techniques of Sports* (0, 3), 1 credit.

Fundamental and advanced skills, strategy, rules and officiating techniques. 371—Hockey; 372—Football; 373—Basketball; 374—Badminton-Archery; 375—Tennis-Fencing (W)/Wrestling (M); 376—Field Sports.

PE. 378. *Laboratory Experiences in Physical Education* (0, 3), 1 credit.

Supervised experiences in observation and participation in physical education programs in classes, clinics, and public school programs. *Prerequisites: Junior classification.*

PE. 380. *Officiating*, 1 credit.

Theory and practice of officiating in selected sports. The standards of the appropriate men's and women's officiating groups are used. (Limited enrollment. Exemption by examination of appropriate officiating groups. Separate classes for men and women.)

PE. 381. *Activities for Children* (0, 2), 1 credit.

Rhythms, games, self-testing and all other types of activities taught to children. (Not acceptable for basic studies requirement. Formerly PE. 284.) (*Prerequisite: PE. 382 for Elementary Physical Education specialist section.*)

PE. 382. *Movement Education in the Elementary School* (2, 2), 3 credits.

Theory and content of movement learning experiences as the core of the elementary school physical education program.

PE. 383. *Mechanical Analysis of Movement* (4, 1), 4 credits.

The science of human movement involving principles of mechanics, psychology and physiology; the application of the knowledge of anatomy in improving motor performance. *Prerequisites: Bio. 270 and Bio. 290.*

PE. 384. *Physiology of Muscular Activity* (2, 2), 3 credits.

Study of the effects of exercise upon the body and bodily functions; physiological effects of special kinds of activity; physiology of training; assessment of organic fitness. *Prerequisites: Bio. 270 and Bio. 290.*

PE. 385. *Psychology of Motor Performance*, 3 credits.

Studies in psychology, physical education, and related sciences dealing with inter-relationships of psychology and human motor performance. Topics include inter-actions of motor behavior and personality correlates, cardiovascular/muscular fitness level and personality, neuromuscular integrity and control and personality, motivation, arousal level and emotion and motor performance and psycho-social acceptance.

PE. 386. *Meaning and Values of Movement*, 4 credits.

The history of physical education as it has affected the schools of the United States. The principles of health and physical education as a basis for objectives, program and method; current problems.

PE. 387. *Physical Education for the Handicapped* (1, 2), 2 credits.

Designed to provide understanding and laboratory experience in developing exercises and physical activity programs for handicapped children and youth. *Prerequisites: SpEd. 340, SpEd. 360, and SpEd. 370.*

PE. 460. *Field Work in Aquatics*, 3 credits.

"In-the-field" practical teaching by maintaining residency for at least an eight week period at a YMCA/YWCA camp, B.S.A. camp, town or community recreation department, A.R.C. chapter, school or college recreation program. This is an opportunity for the student to gain valuable and practical experience involved in aquatics. The student must submit in writing the area he or she plans to complete in the summer field work and it must be approved by the instructor prior to enrolling in the course. *Prerequisites: PE. 367 and PE. 368.*

PE. 464. *Techniques in Competitive Swimming, Diving and Water Polo*, 3 credits.

A systematic treatment of the philosophy, principles and techniques of teaching and coaching swimming, diving and water polo. This course presents a thorough mechanical and kinesiological analysis of the techniques and methods of coaching swimming, diving and water polo.

PE. 465. *Construction, Design, Operation and Maintenance of Aquatic Facilities*, 3 credits.

Designed to familiarize the student with all the aspects relating to design, construction, operation and maintenance of swimming pools. Consideration is given to state health and pool codes, as pertains to pool construction and design.

PE. 474. *Summary of Dance* (1, 3), 2 credits. Available on the block plan.

A summarizing dance experience organized to increase understanding of dance through a study of the development of the art from primitive times through the twentieth century utilizing historical forms and movement characteristics in the contemporary idiom.



PE. 482. *Organization and Administration of Elementary School Physical Education*, 3 credits.

Directed toward an understanding of problems specific to elementary schools with respect to personnel, facilities, equipment, budget, scheduling evaluation and public relations. *Prerequisite: PE. 382.*

PE. 483. *Health and Physical Education in the Secondary School*, 2 credits. Available on the block plan.

Class procedures, methods, and the use of materials in the school programs of health and physical education. *Prerequisite: SeEd. 370.*

PE. 484. *Problems in Administration*, 3 credits.

Selected problems relating to the program of health education, physical education, intramurals, and interscholastic athletics; attention is also given to scheduling, facilities, equipment, budgeting, public relations, and professional standards and ethics. *Prerequisite: PE. 386 or equivalent.*

PE. 485. *Measurement and Evaluation in Physical Education*, 3 credits.

The selection, administration and use of tests unique to the field of physical education. Special emphasis is placed on testing procedures.

PE. 486. *Adapted Physical Education (3, 1)*, 3 credits.

Designed to provide understanding and laboratory experience in remedial exercises and other activities for individuals restricted because of poor body mechanics and crippling conditions. *Prerequisite: PE. 383.*

PE. 490. *Special Studies in Physical Education*, 1-3 credits each semester.

Designed to give superior students in physical education an opportunity to do independent study and/or research under faculty supervision. *Prerequisite: Permission of the Head of the Department.*

PE. 501. *Workshop in Physical Education*, 1-3 credits.

An intensive study of one aspect of physical education that is of current concern to physical educators in the field.

PE. 506. *Direction and Performance of Dance Repertoire*, 3 credits.

Experiences in the direction and technical training of dance companies, ensembles, and repertory groups, and in the performance of dance roles choreographed by dance faculty, artists-in-residence, or advanced students.

PE. 510. *Principles of Motor Learning*, 3 credits.

Principles and theories of learning motor skills and their application in teaching and coaching physical education activities.

PE. 530. *Contemporary Trends and Theories in Dance (2, 2)*, 3 credits.

Investigation through directed readings and studio experiences of current theories and trends in dance as applicable to dance in education performance, choreography, and research.

PE. 540. *Physical Education in Elementary Schools*, 3 credits.

The planning, conducting and supervising of the physical education program in elementary schools. Special emphasis is given to newer concepts in physical activities for children.

PE. 570. *Administration of Athletics*, 3 credits.

Investigation of specific problems and new developments in the administration of athletic programs, including such factors as business procedures, equipment, facilities, conduct of athletic events, and school law and liability.

## Health

HTH. 200. *Elements of Health Education*, 2 credits.

A survey of principles for the promotion of optimum individual, family, and community health through intelligent self-direction of health behavior. Topics include the physical, mental, social dimension of health economics, disease control, human sexuality, chemical abuse, injury control and nutrition.

HTH. 203. *Elements of Injury Control*, 3 credits.

A survey of safety problems as they exist in society today, with emphasis on preventative, corrective and compensatory procedures.

HTH. 204. *Emergency Health Care (0, 2)*, 1 credit.

A survey of various dimensions of the legal aspects of emergency care, cardio-respiratory emergencies, hemorrhage control, wounds, shock, heat injuries, and other health emergencies. Selected Red Cross and Medical Self-Help Certification available.

HTH. 205. *Care and Prevention of Athletic Injuries (1, 2)*, 2 credits.

Procedures for the prevention and care of athletic injuries with emphasis on protective equipment and facilities, training, injuries, and rehabilitation. Includes practical experience in the intercollegiate athletic program.

HTH. 220. *Sexuality of Young Adults*, 3 credits.

An in-depth study of the sexuality of college students. Emphasis will be placed upon the development of sexuality with attention given the psychological, physiological, and sociological implications.

HTH. 300. *The School Health Program*, 2 credits.

A study of health services and environmental factors which contribute to the promotion of health and prevention of disease and their interrelationships with health instruction. Emphasis is given to health appraisals and scientific bases for a healthful environment.

HTH. 304. *Traffic and Driver Safety* (3, 1), 3 credits.

Problems of traffic and driver safety as they exist in our present society. Upon successful completion of this course and Health 203, students may secure an endorsement for Driver Education from the State Board of Education after graduation. (*Prerequisites: Admission into a teacher education curriculum; Operator's license issued by the Commonwealth of Virginia.*)

HTH. 306. *Health Problems of the Young Adults*, 2 credits.

Major health problems of young adults are studied, with consideration given to their psychological, physiological, sociological and economic ramifications. *Prerequisite: Hth. 200 or equivalent.*

HTH. 314. *Principles of Community Health*, 3 credits.

The study of the nature, extent, and causes of community health problems and consideration of the elements of public health programs and community structure in the possible solution of these problems. Field work and observations required.

HTH. 318. *The Use and Effects of Drugs*, 3 credits.

A study of the use and pharmacological properties of popular legal and illegal drugs, and their effects on the health of individuals and society.

HTH. 320. *Environmental Health*, 3 credits.

An investigation of environmental factors and their effects on the health of the individual, community, and society.

HTH. 401. *Laboratory Methods and Educational Media in Driver and Traffic Safety*, 3 credits.

The role of laboratory programs in driver and traffic safety. Students will design and evaluate laboratory procedures, methods, and instructional material using existing automated driver and traffic safety equipment. *Prerequisite: Hth. 304 or equivalent.*

HTH. 403. *Advanced Health*, 3 credits. Available on the block plan.

The scientific foundations, recent developments, and effects on wholesome living of nutrition, genetics, and specific areas in personal health. Independent research in additional areas of health will be emphasized. *Prerequisites: Hth. 200, Bio. 270 and Bio. 290.*

HTH. 414. *Field Work in Community Health* (2, 3), 3 credits.

Work in the local health and welfare agencies under the supervision of the course instructor. *Prerequisite: Hth. 314.*

HTH. 490. *Special Studies in Health Education*, 1-3 credits each semester.

Designed to give the superior student in health education an opportunity to do independent study and/or research under faculty supervision. *Prerequisite: Permission of the Head of the Department.*

HTH. 501. *Workshop in Health Education*, 3 credits.

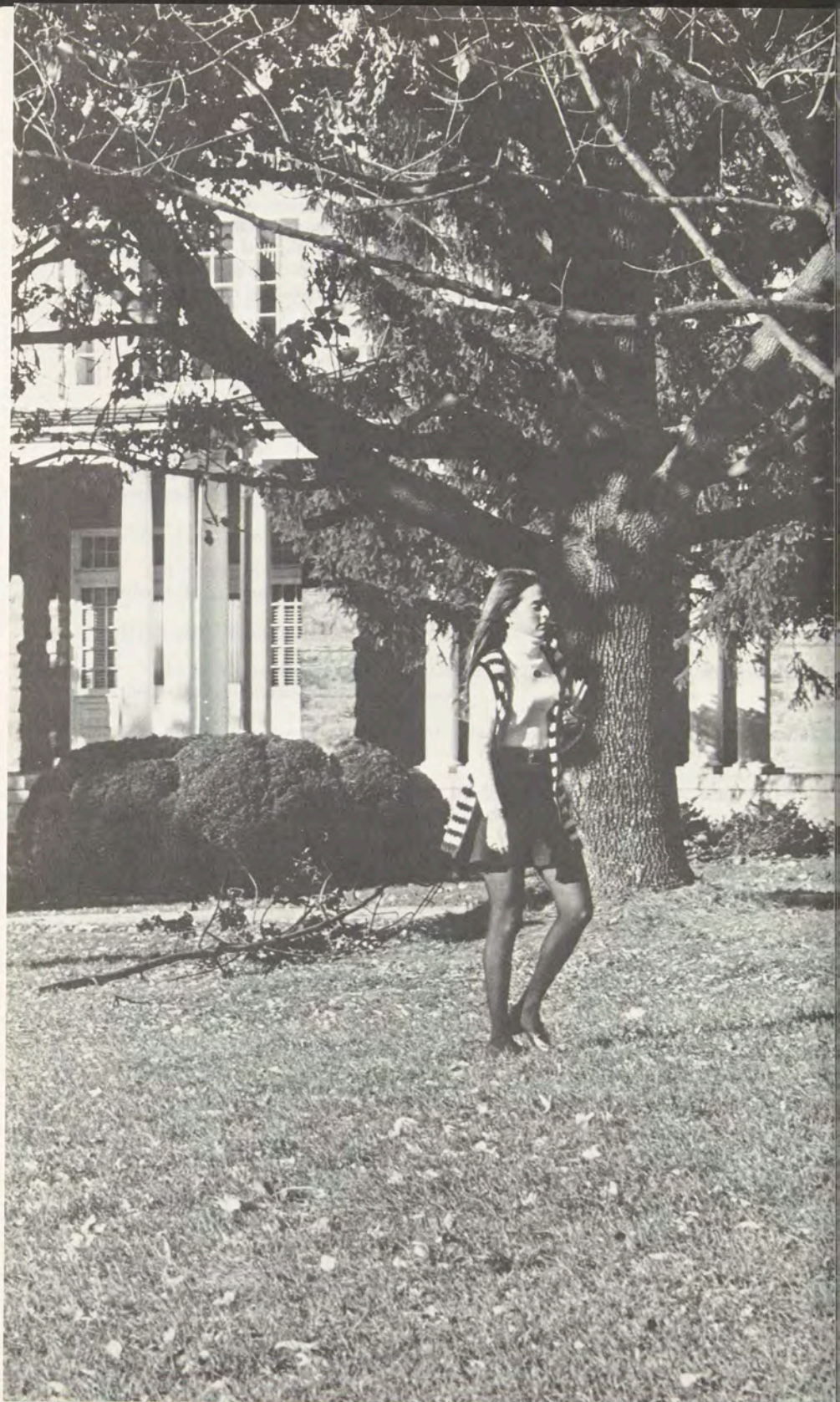
An intensive investigation of one of the major current health problems such as sex education, drug abuse or environmental health.

HTH. 510. *Human Sexuality*, 3 credits.

An interdisciplinary team approach is used to study the many specific components of human sexuality as they particularly relate to the physical, social, and emotional health of children, adolescents, and adults. Such topics as physical and sexual changes during adolescence, abortions and contraceptives are discussed.

HTH. 550. *Recent Developments in Health Science*, 3 credits.

A survey of recent developments and trends in medical and paramedical programs and topics.



# *Tuition and Financial Information*

# Tuition and Fees

Listed below are the tuition and fees for undergraduate students which must be paid before registration can be completed at Madison College. These fees are applied toward the general maintenance and operating costs of the College. *The College reserves the right to adjust these fees if deemed advisable by the Board of Visitors because of rising costs or other conditions.*

<b>Full-Time Students</b>	<i>Per Semester</i>	<i>Per Year</i>
General Fees		
Virginia Residents	\$333.50	\$ 667.00
Non-Virginia Residents	\$546.00	\$1,092.00
Room, Board and Laundry	\$569.50	\$1,139.00

The room, board and laundry fee must be paid by all students who live in College controlled housing, except those living in the Showalter Apartments. These students may deduct \$261.00 per session if they do not choose to take meals in Gibbons Dining Hall.

Only full-time students (those enrolled for 12 or more credit hours) are permitted to purchase a room, board and laundry contract.

*Student Teaching:* Student teachers will be considered to be full-time students subject to full-time fees while on practice teaching assignments.

## **Part-Time Students**

Part-time students registering for 6 credit hours or less will be charged the tuition fee of \$16 per credit hour. These students will be entitled to library privileges only.

All students registering for 7 to 11 credit hours will be charged the \$16 per credit hour tuition fee plus a non-refundable fee as follows: 7 hours — \$42; 8 hours — \$48; 9 hours — \$54; 10 hours — \$60; or 11 hours — \$66. These students will be entitled to all privileges afforded full-time students except the privilege of a room, board, and laundry contract.

Non-Virginia residents must pay an additional \$14 per credit hour out-of-state tuition.

*Student Nurses:* By special authorization of the Board of Visitors, student nurses of Rockingham Memorial Hospital will pay one-half the fees normally paid by other students.

*Auditor's Fees:* A person who registers as an auditor will pay the same General Fee as one who registers for credit.

*Applied Music Fees:* The fees for full-time students will be as follows:

1. Instruction voice, piano, violin, or other orchestral instrument:

	<i>Fee</i>	<i>Practice</i>	<i>Total</i>
2 half-hour lessons per week per semester . . . .	\$50.00	\$ 5.00	\$55.00
1 half-hour lesson per week per semester . . . . .	30.00	5.00	35.00
1 to 15 lessons per semester, each . . . . .	1.90	.30	2.20

2. Instructions in organ:

2 lessons per week per semester . . . . .	\$50.00	\$10.00	\$60.00
1 lesson per week per semester . . . . .	30.00	10.00	40.00
1 to 15 lessons per semester, each . . . . .	1.90	.60	2.50

The number of lessons each student wishes to take will be arranged with instructors at the time of registration. A registration fee of \$7.50 per semester is charged music students who register only for applied music, if they desire, and are qualified for college credits for such course or courses.

The semester fee for part-time students taking applied music will be \$40 for one lesson a week and \$80 for two lessons a week.

*Specialized Class Fees:* Additional charges for photography, bowling, riding, golf, and any other classes requiring use of off campus facilities, will be determined at the time the course is offered and a bill will be rendered by the Treasurer after registration.

*Course or Schedule Adjustment Fee:* A fee of \$5.00 is required for any adjustment made after the "no fee" schedule adjustment period as specified in the College Catalog. The \$5.00 fee must be paid unless the change is necessitated by circumstances beyond the student's control and the fee is waived by the Dean of Admissions and Records.

*Late Registration Fee:* A \$5.00 fee must be paid for registration on days other than those specified in the College Calendar.

*Examination for Credit Fee:* Arrangements for credit by examination may be made by paying a non-refundable \$15 fee to the Cashier and presenting the receipt to the Records Office.



*Diploma Fees:* The diploma fee is \$10.00 for a Bachelor's or a Master's. Because of special handling, an additional fee of \$5.00 is required for mailing a diploma.

*Student Activity Fee:* This fee is included in the General Fees to support a balanced program of social, cultural, and recreational activities. Specific activities include the Student Government Association, the Campus Program Board, the *Bluestone*, the *Breeze*, the Lyceum, the intramural programs, men's and women's intercollegiate athletics, and a variety of other programs. The full-time student is entitled to a copy of the *Bluestone*, a subscription to the *Breeze*, and admission to all Lyceum programs and home intercollegiate athletic contests.

*Construction Fee:* In accordance with State policy, the College must charge a fee for several college buildings financed, in whole or in part, by revenue bond issues to provide for sinking fund requirements. This fee is included in the General Fees.

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

*Parking Fees:* A registration and parking fee will be paid by each student who operates a vehicle on campus. The purpose of this fee is to defray the expense of registering vehicles and maintaining parking facilities. Payment must be made at registration.

*Application Fee:* An initial non-recurring, non-refundable application fee which will not be credited to the student's account is required. This fee is \$15 for degree seeking students and \$10 for non-degree students.

*Readmission Fee:* A readmission fee of \$10 is required of all students each year. Currently enrolled students intending to return must submit this fee with their "Application for Readmission" card by mail or at the Cashier's window by April 1st. This fee will not be refunded, credited to the student's account, or transferred to another school year.

*Room Deposit:* Students who desire to live in College residential facilities must make a deposit of \$100 to reserve a room. This deposit is to be made by April 1st and is non-refundable after May 1st except for reasons stated below. This deposit will be credited to the student's account within the same school year for which the reservation is requested. A signed Room, Board and Laundry contract must accompany this deposit. Refund after May 1st will only be made for personal illness certified by a physician, for unavoidable emergency, or other extenuating circumstances approved by the Vice President for Business Affairs.

*Medical and Health Services:* The Madison College Health Center provides health and medical services for all students enrolled for 7 or more credit hours. This service includes the furnishing of simple remedies and ordinary nurse's and physician's attendance. It will not cover the cost for the student of specially compounded prescriptions, special private nursing, hospital care in serious and protracted cases, surgical operations, or the service of specialists not on our staff.

Commuter students who are eligible for health services will receive the same medical services as dormitory students, but will be charged \$6.50 per day for room and board for any period of confinement.

The fee for the Medical and Health Services is included in the General Fees.

### **Payment of Tuition and Fees**

All tuition and fees are to be paid prior to the beginning of each session. A "Permit to Register" will be included with each student's registration materials and must be presented in order to enter the Registration Center. This permit will be issued to those students whose bills are paid in full, who are prepared to pay in full at registration, or who have College approved financial aid for any unpaid balance.

With the use of this "Permit to Register", the student certifies that he/she has paid his/her bill in full prior to date of registration, or is prepared to pay in full at the Registration Center, before registration is completed, or that they have College approved financial aid for any unpaid balance.

*No student having unpaid fees and/or fines due for a previous session will be permitted to register until they are paid in full.*

*Debts Owed to the College:* Any unpaid bills are subject to the following regulations enacted by the Board of Visitors of Madison College which require (1) that no credit for college work may be given to any student for a diploma, or a teacher's certificate, or for transfer purposes, until all debts to the College, other than student loans, have been paid; (2) that students will not be eligible to take examinations unless accounts are paid in full for the current session; and (3) that upon recommendation of the Vice President for Business Affairs and with the approval of the Vice President for Academic Affairs, students who are deficient in their accounts may be restricted from attending classes until satisfactory arrangements have been made for payment of their past due obligations to the College.

### Refunds

The room deposit for dormitory students will not be refunded after May 1st except for illness certified by a physician or for unavoidable emergency or extenuating circumstances approved by the Vice President for Business Affairs.

Students who formally withdraw from the College on or before September 11 for the Fall session and January 22 for the Spring session will be refunded all General Fees except a withdrawal fee of \$15. Students changing status from full to part-time within these dates will only be charged the General Fees applicable to the remaining credit hours being carried. Dormitory students will be refunded a pro-rata share of board and laundry. Students withdrawing between September 12th and October 25th and January 23rd and March 7th respectively will be refunded one-half the credit hour tuition fees and a pro-rata share of the board and laundry fee. After October 25th and March 7th refunds will be for only a pro-rata share of board and laundry fees.

Students who withdraw due to illness certified by a physician or for unavoidable emergency or extenuating circumstances approved by the Vice President for Business Affairs will be refunded a pro-rata share of all fees. The dates for determining pro-rata refunds of board and laundry will be those stated in the College Calendar for the opening of the Dining and Residence Halls.

*Enforced Withdrawal:* Students whose connection with the College terminates on account of disciplinary action or enforced withdrawal will receive a pro-rata refund of all fees except the room rent.

*Late Entrance and Absences:* No adjustment in the charge for room and board will be made for late entrances of ten days or less or for absences of less than fourteen days, except in case of hospital confinement where adjustment is made for absences of seven days or longer.

### **Guests**

Students may invite relatives or friends to meals at the College by obtaining permission from the Food Service Director and by purchasing the necessary meal tickets. Alumni of the College are always welcome. Meal tickets for alumni may be purchased from the Food Service office.

### **Campus Banking Facility**

The Virginia National Bank operates a branch bank on the campus which provides full-banking service. The College urges students to make use of this service rather than to risk the loss of funds.

# Scholarships, Student Employment and Loans

The College endeavors to assist capable students in financing their college education. We feel that funds expended for this purpose do much to improve the quality of living. We need more investments of this nature and it is heartening each year to note the increased number of scholarships becoming available to able students through gifts from individuals and from worthy scholarship projects of local community organizations.

As the sources of financial aid increase, the college financial aid office will help students work out "package financial plans" that may include a scholarship, employment and a loan combined to make it possible for a qualified student with low income to attend college.

A student is eligible to apply for financial assistance if he is in Good Standing. Good Standing is defined as eligible to return to the College. This applies to all programs except those specifying certain grade point averages (State Teachers' Scholarships and General Undergraduate Scholarships require a 2.00 on a 4.00 scale).

Since the demand for scholarship, employment and loan assistance at Madison is generally competitive, it is essential that ALL APPLICANTS FILE THEIR APPLICATIONS FOR ANY FINANCIAL AID BEFORE THE APRIL FIRST DEADLINE. A STUDENT WHO RECEIVES FINANCIAL AID FOR ONE YEAR MUST REAPPLY FOR EACH SUCCEEDING YEAR TO BE CONSIDERED FOR AID.

## APPLICATION PROCEDURE FOR FINANCIAL AID

All applicants for financial aid (including work scholarships) must submit a formal application for this aid. Applications are available from the Office of Admissions and Financial Aid. Requests for these applications should be made after you have received notification of your admission to Madison.

All applicants for the College Work Study Program, General Undergraduate Scholarship, Supplemental Educational Opportunity Grant, and National Direct Student Loan must submit, in addition to

the Madison College Application for Financial Assistance, the Parents Confidential Statement for the College Scholarship Service or the American College Testing Family Financial Statement Form. These forms may be obtained from the high school guidance offices or the Office of Admissions and Financial Aid at the college. THE 10 HOUR SERVICE (INCLUSIVE OF FOOD SERVICE AND MUSIC SERVICE) DOES NOT REQUIRE THIS FINANCIAL STATEMENT.

Although financial assistance is awarded for one year, Madison College will continue to assist aid recipients if need continues and a student maintains good standing. RECIPIENTS MUST APPLY FOR RENEWAL EACH YEAR. APPLICATIONS AND FINANCIAL STATEMENTS MUST BE ON FILE BY APRIL 1.

THE PARENTS CONFIDENTIAL STATEMENT OR FAMILY FINANCIAL STATEMENT SHOULD BE MAILED TO THE ADDRESS AS INDICATED ON THE FORM IN ADVANCE OF THE APRIL FIRST DEADLINE.

The amount of financial assistance a student may receive depends upon his need—taking into account his financial resources, those of his parents, and the cost of attending the college of his choice.

Students who are awarded any type of financial assistance by Madison College shall receive an award letter indicating the source(s) of assistance and amount(s). The Award letter has explanatory information which is very important to the recipient and should be read carefully before the student returns the appropriate copies (3) to the Financial Aid Office. The Office of Financial Aid endeavors to have award letters to recipients by the early part of July.

The Financial Aid Office makes financial assistance awards for an academic year (fall-spring) and therefore, awards are only made for the second semester (spring term) if funds should become available by cancellation.

## GENERAL SCHOLARSHIPS

### State Teachers Scholarship-Loan Program for Prospective Teachers:

The General Assembly of Virginia has provided funds for a number of scholarships at Madison College for students who are preparing to be teachers in the Virginia Public Schools.

## I. Eligibility

### A. The candidate must:

1. Be a resident of Virginia and a citizen of the United States who is preparing to teach in the Virginia Public Schools in the elementary grades or in subjects generally offered in Virginia high schools.
2. Possess scholastic ability and personal characteristics desirable for effective teaching.
3. Be a student classified as a freshman, sophomore, junior, or senior in a state-supported or private, non-sectarian, degree-granting college or branch thereof in Virginia approved under the scholarship plan or a community college under the State Community College Board which meets the requirements of the scholarship program.
4. Be enrolled in a curriculum including Student Teaching and qualifying him for a Collegiate Professional Certificate. Upon the recommendation of the College a student planning to enter the Master of Arts in Teaching program the next academic year following his receiving the baccalaureate degree may be permitted to forego Student Teaching during his senior year but shall be required to take it during his Master of Arts in Teaching program.
5. Seniors and Juniors must be given first consideration. They must possess good scholastic ability as indicated by at least a cumulative grade-point average of 2.00 on a 4.00 scale. Sophomores must possess above average grades in the freshman year. Freshman candidates must possess outstanding scholastic ability as indicated by above average rank in high school class or by above average score or rank on standardized scholastic aptitude or achievement tests.
6. All candidates must have a record of good citizenship and possess personal characteristics desirable for effective teaching. This should be confirmed by college officers and by recommendations of former teachers.
7. All candidates must possess such other qualifications as the college authorities may prescribe.

B. Summer Session Study—A student who continues study in a summer session in order to secure a degree in less than four calendar years may be considered eligible for a Prorated Summer Regular Term Scholarship Loan. The scholarship aid for this purpose will be available at the rate of \$150 per summer based on ten semester hours (\$15 per semester hour if less than ten semester hours).

C. Regular Term Study—A student who applies for a Regular Term State Teachers' Scholarship must take a minimum of 30 semester hours each year to be eligible for scholarship aid.

D. *Only a limited number of carefully selected freshmen will be eligible. Such freshman candidates must:*

1. Possess good scholastic ability as indicated by above average rank in his or her high school class and by above average score or rank on a standardized scholastic aptitude or achievement test.
2. Have an established record of good citizenship and possess personal characteristics regarded as desirable for effective teaching. This should be confirmed by interview with college officers and by recommendations of former teachers.
3. Possess such other qualifications as the College authorities may prescribe in picking out highly selected candidates.

## II. *Cancellation of Promissory Notes of Scholarship Recipients*

1. A candidate must agree to sign and execute a promissory note to the Commonwealth of Virginia for the amount of scholarship aid received, which obligation shall bear interest at the rate of 6% per annum. The note must be endorsed by a responsible adult who is a Virginia resident.
2. Each note plus interest can be cancelled in full by teaching with a Collegiate Professional Certificate under contract one full school year in the public schools of Virginia immediately following graduation from college.
3. If the scholarship recipient fails to teach in the public schools of Virginia after 9 months following graduation from college, the oldest note with interest shall become due and payable on the date shown on the same. If the scholarship recipient does



not begin teaching in the public schools of Virginia the second year following graduation, all notes with interest become immediately due and payable.

4. If a scholarship recipient leaves a Virginia college prior to graduation and does not enroll in a teacher preparatory curriculum (designed to qualify him for the Collegiate Professional Certificate) of another college or discontinues full time studies in a teacher education curriculum, all notes plus interest become due and payable immediately.
5. If a scholarship recipient leaves a Virginia college prior to graduation but enrolls in the teacher preparatory curriculum (designed to qualify him for Collegiate Professional Certificate) of another college, repayment of the note or notes plus interest shall be postponed until his graduation from college. In this instance each note plus interest can be cancelled by one full year of teaching immediately following graduation.
6. If a scholarship recipient performs military service after graduation and qualifies for a Collegiate Professional Certificate, the repayment of the uncanceled notes will be postponed until he has completed his original tour of duty. Copy of orders to report for such service must be sent to the State Department of Education. If the recipient does not cancel his note or notes by teaching in the public school system of Virginia, there will be no suspension of interest because of military service. If the recipient voluntarily re-enlists, all notes plus interest become due and payable immediately following such voluntary re-enlistment.
7. If a scholarship recipient (having completed requirements for the Collegiate Professional Certificate) accompanies the spouse on the original tour of duty in military service, the repayment of uncanceled loans will be postponed for such period of time not exceeding three years. However, such postponement is not applicable if the recipient maintains residence in Virginia during military service of spouse.
8. A one-year postponement for cancelling promissory notes will be allowed for maternity reasons (before or after graduation from college) or for the pursuit of a Master's Degree.
9. If undergraduate program is shortened by including Pro-rated Summer Session Scholarships with Regular Term

Scholarships, the period of teaching to cancel the four or more loans will not extend over more than four school years.

10. Any note or notes plus interest not cancelled by teaching in the public school system of Virginia shall be repaid in lump sum or in accordance with a repayment schedule prescribed by the State Superintendent of Public Instruction. Interest shall be computed from the date of each note to the date of payment in full.
11. If it becomes necessary to place a note in the hands of an attorney for collection, a 15% charge as the attorney's fee in addition to the amount due on the note at the time of collection shall be paid by the maker and/or endorser.
12. If it becomes necessary to place the account in the hands of an attorney for collection, the State Superintendent of Public Instruction is authorized to revoke the teaching certificate of the maker and/or endorser until the note or notes are paid.
13. It is the responsibility of the maker of a note to keep the Superintendent of Public Instruction informed of change in address, change in graduation date, enrollment in another college, military service, and name of school or schools in which teaching service is rendered until the total obligation is satisfied.
14. The Superintendent of Public Instruction may in his discretion:
  - a. Extend the time for teaching to cancel a loan or for repayment in the event the scholarship recipient on account of illness or other extenuating circumstances fails to complete in the expected time the study as shown on the application or is not able to complete within the expected time the necessary teaching to cancel his entire obligation.
  - b. Accept as partial cancellation of a note less than one year of teaching if the scholarship recipient is prevented on account of illness or other extenuating circumstances from completing a full year of teaching service. No credit will be allowed for teaching less than one full semester.
15. The State Board of Education may in its discretion cancel both principal and interest in whole or in part in the event of death or prolonged or serious illness of the scholarship recipient.

### III. *Application Procedure*

- A. The President of the College or his authorized representative will recommend candidates, who are preparing for teaching in accordance with the regulations mentioned above. Freshmen candidates will be recommended in accordance with the special regulations prescribed by the State Board of Education, as explained in the eligibility provisions above. *No application forms will be issued to applicants from the State Department of Education.*
- B. The prescribed and current application form must be used and submitted to the State Department of Education by the College the applicant is attending. If the application is approved by the Department, the applicant will be notified through the College when the applicant's promissory note is received by the College from the State Department of Education.
- C. Applications for the academic year must be submitted to the State Department of Education prior to September 1. Applications submitted after that date will be considered for approval for the second semester only within available funds. Applications for the second semester only must be submitted prior to January 1. Applications for study in the summer quarter must be submitted by April 1.

### IV. *Payment to Student*

When the State Board of Education has approved a scholarship grant, the applicant must sign a promissory note in the proper amount bearing interest from date of note, at 6% per year, which must be endorsed by a responsible adult citizen of Virginia. After the promissory note has been endorsed by an adult, the promissory note MUST BE SENT TO THE DIVISION SUPERINTENDENT OF SCHOOLS IN WHOSE DIVISION THE ENDORSER RESIDES. The Division Superintendent is required to approve the endorser of this note. The Division Superintendent will forward the note to the State Department of Education, Richmond, Virginia. When this note is accepted and the candidate is reported by the College as enrolled with a full program of work, a check WILL BE SENT TO THE RECIPIENT THROUGH THE COLLEGE. The recipient shall make arrangements with the Business Office concerning how this check is to be handled. These checks usually are sent to the college late in the semester.

Scholarship aid as defined in these regulations will be available in the maximum amount of four hundred fifty dollars (\$450) per school year. If the application for scholarship aid is approved for less than a full session of nine months, the amount of the loan cannot exceed one hundred fifty dollars (\$150) per quarter or two hundred twenty-five dollars (\$225) per semester.

#### V. *Effective Date*

These Regulations are applicable to notes dated on and after October 1, 1967 except as follows:

1. The provisions of Item 7 with respect to postponement of obligation of the spouse of military personnel during original tours of duty are applicable to outstanding notes or any portion thereof as of December 1, 1967. Recipients who are now making payments on teaching scholarship loans will be permitted to discontinue such payments, but this action shall not be construed as authorizing any refunds.
2. The 6% interest rate will apply to all notes issued on and after June 1, 1968.

**General Undergraduate Scholarship (G.U.S.):** These scholarships are awarded as outright grants and will average between \$300 and \$500 depending upon the need of the applicant.

To be eligible a recipient shall be a legal resident of Virginia and have an established record of personal character and citizenship. He must also be enrolled in or accepted for admission to a regular FULL-TIME program of study leading to a baccalaureate degree at a four-year state-controlled institution and demonstrate that financial assistance is needed to attend college. Students must have a cumulative average of 2.00 on a 4.00 scale.

Each scholarship is awarded for one academic year and is renewable for succeeding years only upon continuing eligibility and availability of funds. The scholarship award shall be CREDITED TO THE STUDENT'S ACCOUNT ON THE BASIS OF ONE-HALF OF THE SCHOLARSHIP TO EACH SEMESTER. Participating institutions shall require each scholarship holder to sign an agreement to repay any unused portions of the scholarship in the event of his withdrawal from college for other than extenuating circumstances.

**Supplemental Educational Opportunity Grant (S.E.O.G.):** This is a program of direct awards to undergraduate students made available

by the Congress in 1965 and by Educational Amendments of 1972. Madison College will award a number of these grants to students with exceptional financial needs who require them to attend college. To be eligible, the student must also show academic or creative promise.

Eligible students who are accepted for enrollment on a FULL-TIME basis or who are currently enrolled FULL-TIME and in good standing, may receive Supplemental Educational Opportunity Grants for each year of their higher education, although the maximum duration of a grant is four years.

Grants will range from two hundred dollars (\$200) to fifteen hundred dollars (\$1500) a year and can be no more than one-half of the total assistance given to the student. A student is limited to a maximum of four thousand dollars (\$4000) in a four year period or five thousand dollars (\$5000) in a five year program. This grant must be matched dollar for dollar with some other type of assistance. This grant shall be CREDITED TO THE STUDENT'S ACCOUNT ON THE BASIS OF ONE-HALF OF THE SCHOLARSHIP TO EACH SEMESTER.

**Basic Educational Opportunity Grant (B.E.O.G.):** This grant, more commonly known as Basic Opportunity Grant, is a new program of student financial aid which was authorized by Title IV, Part A of the Education Amendments of 1972. This program provides for grants of \$1400 less the expected family contribution and cannot exceed one-half the cost of the student's attendance. In order for a student to receive a Basic Grant, he must have been accepted for enrollment in or be in good standing at an eligible institution of higher education. Students must be enrolled half-time or full-time in an undergraduate course of study. *We anticipate that only Freshmen and Sophomores will be eligible for this program during the 1974-75 academic year.* SPECIAL APPLICATION FORMS FOR THIS PROGRAM MAY BE OBTAINED FROM THE COLLEGE, YOUR HIGH SCHOOL OR LOCAL POST OFFICE. Student recipients shall either receive credit to their account or payment by check for this grant.

**Virginia College Scholarship Assistance Program (C.S.A.P.):** The College Scholarship Assistance Program is a program of grants and loans to students in state-supported colleges and universities. It is administered by the State Council of Higher Education for Virginia.

*Persons enrolled during the 1974-75 academic year as Freshmen or Sophomores in participating institutions as FULL TIME students*

who have been Virginia residents for one year and who demonstrate sufficient financial need are eligible to receive awards under the program.

Application forms can be obtained from the Office of Admissions and Financial Aid and should be mailed directly to the State Council of Higher Education. In addition to the application form, the applicant must file a Financial Aid Statement (FAS) with the College Scholarship Service in Princeton, New Jersey. The applicant must notify The College Scholarship Service that he wishes to designate the State Council of Higher Education as a recipient of a copy of his statement by insertion of the State Council's number (0068) in the appropriate space on the FAS. No application will be considered complete until the State Council has received this statement from the College Scholarship Service.

Since the size of the award will be in relation to the student's demonstrated need, no fixed sum can be anticipated. The General Assembly placed as a maximum, \$400 to any student.

**Privately Funded Scholarships:** All scholarships that are funded by organizations or individuals shall establish with the Director of Public Services a fund for the particular scholarship. The awarding of the scholarship shall be made through the Financial Aid Office. If organizations or individuals wish to discuss procedures for awarding a particular scholarship, they are encouraged to contact the Financial Aid Office.

**The Duke Memorial Scholarship:** This scholarship has been established in memory of the late Samuel Page Duke, who served so ably as President of Madison College from 1919-1949. This scholarship is provided from funds by each senior class and is awarded annually to the member of the junior class who has the highest scholastic record for five semesters while a student at Madison College and it is available for the senior year.

**The Helen M. Frank Scholarship:** This is a scholarship of one hundred dollars (\$100) established by the alumnae of Psi Chapter, Alpha Sigma Tau, in honor of Miss Helen M. Frank, who served as adviser to the chapter from the date of its organization in 1944 until her retirement in 1960. The award is presented to a junior in Alpha Sigma Tau for outstanding scholarship and for possessing the ideals of the sorority.

**The Lucy Copenhaver Gunter Memorial Scholarship:** This scholarship has been established by Dr. Benjamin F. Gunter of Nashville, Ten-

nessee, as a memorial to his late wife, Lucy Copenhaver Gunter, a graduate of Madison College of the Class of 1932. It is supported by a gift from him to the Madison College Foundation, which will invest the principal of the fund and use the annual income for this scholarship. Application for this scholarship should be obtained from and submitted to the Office of Financial Aid.

**A. T. Mace Memorial Scholarship:** This scholarship was established in 1972 in memory of the late A. T. Mace, who served as Chairman of the Department of Business Administration from 1969-1972. This scholarship is provided from funds donated by friends of Dr. Mace and is awarded annually to a student in the School of Business selected by a committee of the School. The amount of the scholarship is \$250. Applications may be obtained at the Department of Business Administration and Economics.

**Minnie Christiansen-Margaret Miner Scholarship:** This is a scholarship which has been established as a memorial to Minnie Christiansen and Margaret Miner and is awarded annually to a student majoring in Home Economics. Selection of a recipient for the scholarship will be made by a committee appointed by the President and consisting of members of the Home Economics Department, Home Economics Alumni, and Home Economics Students. Applications for the scholarship should be obtained from and submitted to the Office of Admissions and Financial Aid.

**Jane McCauley Partlow Memorial Scholarship:** This scholarship was established in 1972 by donations to the Madison College Foundation in memory of Mrs. Jane McCauley Partlow. This scholarship will be awarded annually. Applications for the scholarship should be obtained from and submitted to the Office of Financial Aid.

**The Edna T. Shaeffer and Glee Club Scholarship:** This fund has been established as a memorial to Miss Schaeffer, who served in the Madison Music Department and as Director of the College Glee Club for forty-one years, and to all former members of the Madison Glee Club. The award is presented to a music student, preferably a child of a former Glee Club member. Applications may be obtained from the Music Department.

**The Ruth McNeil Thornhill Scholarship:** This is an annual scholarship of one hundred dollars (\$100) established by the Culpeper Chapter of the Alumni Association for a Culpeper student attending this College.

**The Bernice R. Varner Scholarship:** This scholarship, created in 1960 by the Panhellenic Council in appreciation of the years of leadership and service given to the Greek Letter Community of Madison College by Mrs. Varner, is awarded to a second semester sophomore or a member of the junior class chosen by the Council on criteria including a cumulative average of 2.75 or above. Both men and women are eligible. Applications may be obtained in the Financial Aid Office.

**The Elsie H. Wigley Memorial Scholarship Fund:** This scholarship, for a student teacher in Early Childhood Education, is established by friends and family in memory of Miss Elsie H. Wigley, who served as supervisor of kindergarten student teachers for Madison College from 1943 to 1969. The annual award of two hundred and fifty dollars (\$250) will be made to an outstanding senior student in Early Childhood Education for use during the student teaching period. This student will be selected on the basis of professional criteria, including above average scholarship. Both men and women are eligible. Recommendations and applications should be submitted during the junior year, before April 1, to the Office of Financial Aid.

**Planters Bank Scholarship Fund:** This annual scholarship in the amount of \$250 shall be awarded to a student from Augusta or Rockingham County who excels in academic and leadership ability. Applications should be obtained from and submitted to the Office of Financial Aid.

**Katherine M. Ikenberry Memorial Scholarship:** This scholarship was established in 1973 in memory of Mrs. Ikenberry who served Madison College from 1963-1971 as an assistant professor of English. This annual scholarship shall be awarded to a deserving undergraduate student who shows academic promise. The selection of the recipient shall be made by the Director of Financial Aid. Applications for this scholarship may be obtained in the Financial Aid Office.

## STUDENT EMPLOYMENT

Students who are employed to work on the campus either under the 10 hour work program or the College Work Study Program shall receive payment by check for their services once a month. **NO CREDIT FOR CAMPUS EMPLOYMENT IS EVER CREDITED TO A STUDENT'S ACCOUNT.**

**Food Service:** Madison College students are employed to assist in the serving of meals in the dining hall on campus. In addition to employment in the dining hall, students are also assigned to the canteen in the



Warren Campus Center. For their services they receive compensation for the nine months' session ranging from two hundred fifty-six dollars (\$256) to five hundred twelve dollars (\$512). The meals in the Madison College Dining Hall are served cafeteria style. It requires approximately two hundred (200) students to operate the food facilities and they are able to earn a portion of their college expenses from this employment scholarship. The students who receive these scholarships are selected on the basis of date of application, and personal qualifications. The scholarship is awarded on a yearly basis and is renewable upon re-application and approval by the Food Service Manager and Director of Admissions and Financial Aid.

**Ten Hour Service:** Madison College provides funds for approximately two hundred and fifty (250) employment scholarships of five hundred twelve dollars (\$512) each for a nine months' session. Students, both freshmen and upperclassmen, who are assigned to these positions serve as assistants in the library, administrative offices, laboratories, post office and gymnasium. The students work ten (10) hours per week and the scholarships are renewable each year upon re-application and approval by the supervisor and the Director of Admissions and Financial Aid. The scholarships are awarded upon the basis of date of application and personal qualifications.

**Music Service:** Madison College has established a number of scholarships in the Music Department open to talented music students, especially in the strings and instrumental field. These scholarships will enable the student to earn an amount of five hundred twelve dollars (\$512) for a nine months' session. Applications for these scholarships should be filed as early as possible. They are open to both freshmen and upperclassmen and are renewable upon satisfactory performance both academically and musically.

**College Work-Study:** A federal supported program of employment for students, especially those from low-income families who need a job to help pay for college expenses. Eligible students may work up to fifteen (15) hours a week while attending classes full time. The basic pay rate is one dollar and sixty cents (\$1.60) an hour. On-campus jobs can include work in laboratories, Godwin Hall, post office, in addition to secretarial positions for the faculty and administration. To work under this program, a student must be enrolled and be in good standing, or be accepted for enrollment as a FULL-TIME student at Madison College. The student's eligibility depends upon his need for employment to defray college expenses and his academic promise

with preference given to applicants from low-income families. The work-study assignments are renewable each year contingent upon need and an acceptable grade average.

Madison College participates in the VIRGINIA PLAN, a program which allows students to be employed during the summer under the COLLEGE WORK STUDY PROGRAM in off-campus jobs. Students are assigned to qualified organizations or institutions participating in this program. Application forms may be obtained from the Office of Admissions and Financial Aid, during February of each academic year. The PCS (Parents' Confidential Statement) is also required for this program.

### **Part-time Off-campus Employment**

The Placement Office, located in Alumnae Hall, maintains a current file on part-time off-campus employment opportunities. Also available to students is information pertaining to summer employment opportunities.

## **STUDENT LOANS**

**National Direct Student Loans:** This is a program of borrowing. Madison College has participated in the National Direct Student Loan Program since July, 1972. Freshmen who have been accepted for enrollment or upperclassmen with acceptable academic averages who are enrolled in full-time or at least half-time courses at Madison College and who need financial aid for educational expenses are eligible for National Direct Student Loans. Madison College only has funds available for full-time student borrowers.

An undergraduate student may borrow up to "two thousand five hundred dollars (\$2,500) through the sophomore year and to a total of five thousand dollars (\$5,000) for undergraduate studies." Graduate students may borrow as much as two thousand five hundred dollars (\$2,500) per year to a maximum of ten thousand dollars (\$10,000). The repayment period and the interest do not begin until nine months after the student ends his studies. The loans bear interest at the rate of 3 per cent per year and repayment of principal may be extended over a ten-year period, except that the institution may require a repayment of no less than thirty dollars (\$30) per month.

Borrowers who teach in designated schools located in areas of primarily low-income families may qualify for cancellation of their entire obligation over a 5 (five) year period. Service as a full-time

teacher of handicapped children (including mentally retarded, hard of hearing, deaf, speech impaired, visually handicapped or seriously emotionally disturbed) also qualifies for full cancellation over a 5 (five) year period. In addition, it is also possible to cancel an entire loan at 15% per year if teaching in the "Headstart" program. Serving in the military under combat conditions qualifies for 12½% rate of cancellation up to 50% of the loan.

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

Student recipients shall either receive credit to their account or payment by check for this loan.

**The Virginia Division United Daughters of the Confederacy Loan Fund:** This organization has established the Kate Mason Roland Loan Fund, worth one hundred fifty dollars (\$150) annually to the holder, and granted to a sophomore, junior, or senior who is a lineal descendant of a Confederate soldier. Other funds may be available. Application should be made to the Chairman, Committee on Education, Virginia Division, United Daughters of the Confederacy.

**Frances Sale Loan Fund:** This fund was established in memory of Frances Sale, the first home economics department head. It is available to home economics majors. The money was provided by the Frances Sale Home Economics Club. Applications should be obtained from the Home Economics Department.

#### **State Education Assistance Authority—Guaranteed Loans— Virginia Residents**

The State Education Assistant Authority is a State agency, organized under an Act of the General Assembly of Virginia in 1960. Its purpose is to help young men and women of Virginia who need to borrow funds in order to obtain a higher education.

The Authority, through participation agreements with Lending Institutions of the State, enables these institutions to make *long term* personal loans to students to help pay their college expenses.

## *Eligibility*

Any person who (1) is a resident of Virginia, and (2) is accepted for enrollment or is a full-time student in good standing at an institution of higher learning in Virginia. There are no restrictions as to courses or classes. Undergraduates, graduates, and students taking professional courses are eligible. Part-time students are not eligible. Also eligible are residents of Virginia attending certain out-of-state institutions to become veterinarians.

## *Application Procedure*

After a student has obtained the necessary forms from his lending institution (bank), credit union, etc., it is necessary for him to submit the OE 1260 form to the financial office at the college. **THIS MUST BE DONE BY ANY STUDENT APPLYING FOR WAIVER OF INTEREST BENEFITS.** In order for the college to make its recommendation for a loan to the bank, it is necessary to either have a current financial statement (PCS or ACT) on file or a copy of the latest federal income tax form 1040 (page 1 only).

For students who are not applying for interest benefits, the college is only required to complete a verification form stating that a student is enrolled, accepted for enrollment and/or in good standing (2.00 or higher on a 4.00 scale) and classified as a full-time student.

## *Recipient*

The loan is made to the student after consultation with the student's parent or guardian. A student who is under 21 years of age may apply for an Authority-approved loan. By special law, students 16 or over have full legal capacity to act in their own behalf.

## *Limitations*

The proceeds of a loan may be used only for current educational expenses. The amount of each loan will be a matter for decision between the student and the Lending Institution, but borrowing under the program cannot exceed two thousand, five hundred dollars (\$2,500) exclusive of interest and charges, for any one academic year. For undergraduate work the limit is "seven thousand, five hundred dollars (\$7,500)". A loan application will ordinarily cover a loan for one academic year. For succeeding years the student, if again qualifying, may apply for needed funds.

### *Interest*

Interest accrues at the rate of 7 per centum per annum on unpaid balances of principal. Under the Education Amendments of 1972 the amount needed is calculated by the College. If need is indicated, the United States Government will pay on behalf of the borrower all of the interest which accrues prior to the beginning of the repayment period of the loan. The borrower will assume the entire interest obligation of the loan upon graduation. Adjusted family income will be determined in the manner specified on a United States Government form which will be supplied to the loan applicant by the Lending Institution.

The preceding paragraph relates to interest. As compensation for insurance loans to the extent of 90%, the Authority collects a small insurance fee from Lending Institutions at the time each loan is made. These fees are passed on to borrowers. They amount to approximately  $\frac{1}{2}$  per centum per annum on unpaid balances for the period of the loan. The fees are due by the borrower at the beginning of the repayment period but may be included in the installment note with interest if the borrower elects such a procedure.

### *Repayment*

Repayment begins on a monthly installment basis nine months after graduation, or after the borrower ceases to be a full-time college student, whichever first occurs. At that time the borrower gives the Lending Institution an installment note in exchange for his outstanding note or notes. The length of the repayment period and the amount of the monthly repayment requirement depend upon the total amount of the indebtedness. If this exceeds two thousand dollars (\$2,000) the period of repayment will not be less than five years.

The borrower may repay all or any part of the principal of a note at any time without penalty and without liability for interest not then accrued.

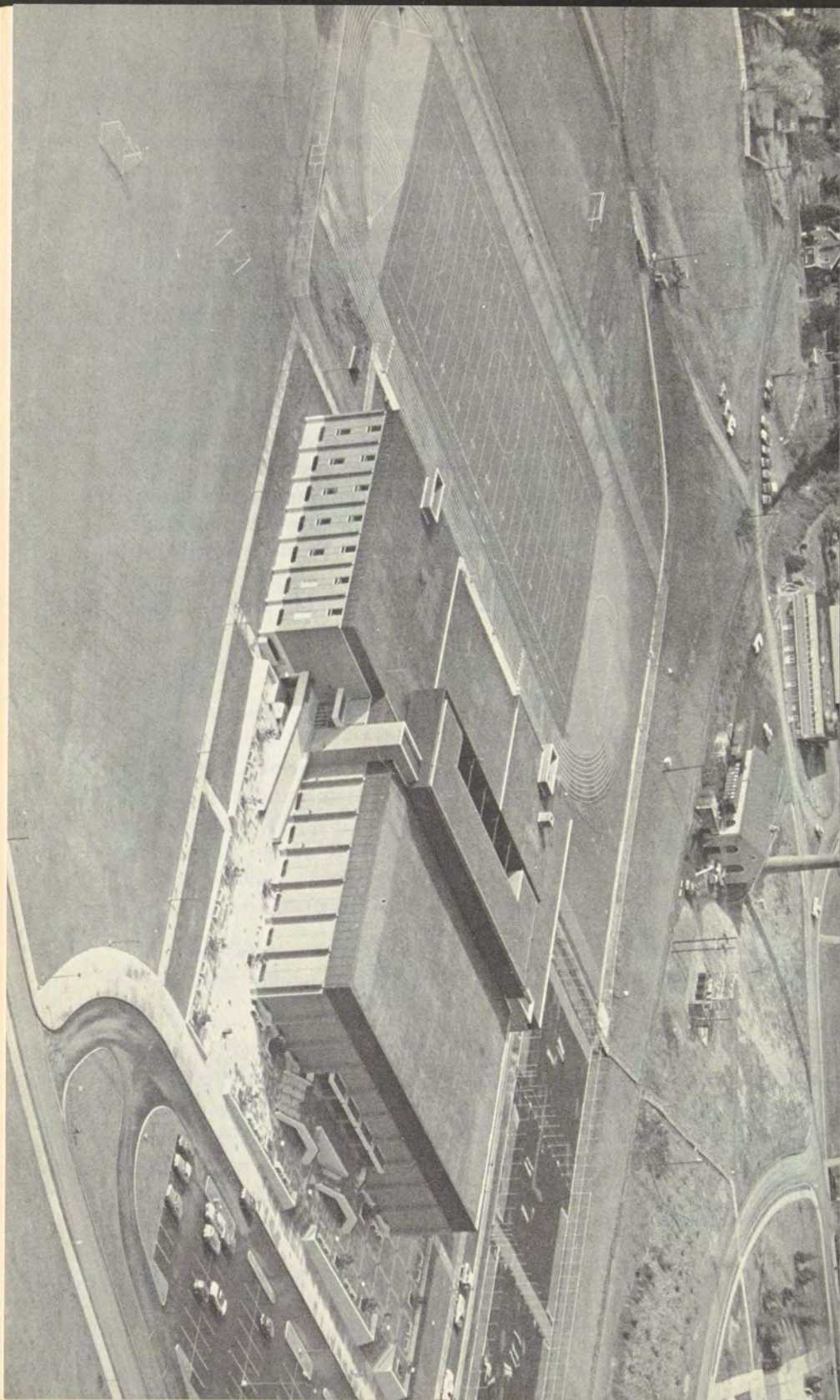
*STATE EDUCATION ASSISTANCE AUTHORITY* (Non-Virginia Residents): This Authority enables commercial banks in most states to make loans to resident students to help pay their college expenses. Students who are in satisfactory standing at an institution of higher learning may apply for such loans. APPLICATIONS AND APPLICATION INFORMATION SHOULD BE OBTAINED DIRECTLY FROM YOUR COMMERCIAL BANK. The same application pro-

cedures are to be followed as stated above under the program for Virginia Residents.

### A Suggestion to Friends of the College

The scholarship and loan funds have been a very great assistance to many worthy students, and it is hoped that other friends of education will continue to provide financial assistance for students of this institution. This should appeal to industries and other business establishments, and to persons of means as a most worthy manner in which to invest money and reap a manifold return in the influence which an educated person may exert on the rising generation.

Any sum, large or small, contributed to the College for this purpose will be faithfully used and greatly appreciated by the administration, the faculty, and the students. The President of the College will be pleased to confer or correspond with persons interested in establishing endowment or other scholarships for aiding worthy students.



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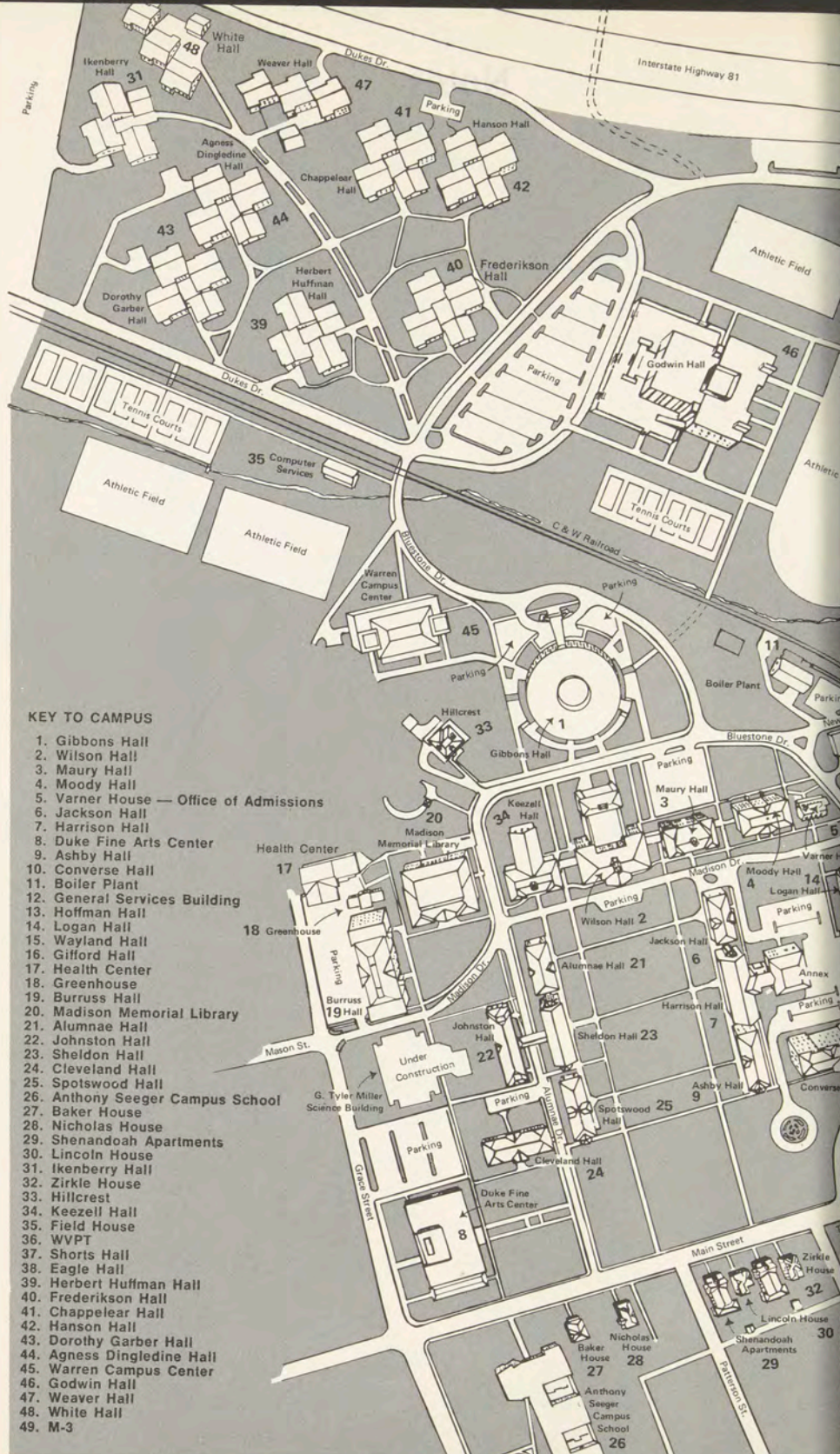
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# Notes

1. The first part of the paper is devoted to a general discussion of the problem. It is shown that the problem is equivalent to the problem of finding the minimum of a certain functional. This functional is defined as follows:  $J(u) = \int_{\Omega} |\nabla u|^2 dx + \int_{\Omega} f(x) u dx$ , where  $\Omega$  is a domain in  $\mathbb{R}^n$  and  $f(x)$  is a given function. The minimum of this functional is attained at a function  $u$  which satisfies the boundary value problem  $\Delta u = -f(x)$  in  $\Omega$  and  $u = 0$  on the boundary  $\partial\Omega$ . This is the Dirichlet problem for the Poisson equation. The existence and uniqueness of the solution of this problem is guaranteed by the Lax-Milgram theorem. The second part of the paper is devoted to the construction of a numerical algorithm for the solution of the Dirichlet problem. This algorithm is based on the finite element method. The domain  $\Omega$  is discretized by a triangular mesh. The solution is approximated by a piecewise linear function on this mesh. The error of this approximation is estimated. It is shown that the error is of order  $O(h^2)$ , where  $h$  is the maximum size of the triangles in the mesh. The third part of the paper is devoted to the construction of a numerical algorithm for the solution of the Dirichlet problem. This algorithm is based on the finite element method. The domain  $\Omega$  is discretized by a triangular mesh. The solution is approximated by a piecewise linear function on this mesh. The error of this approximation is estimated. It is shown that the error is of order  $O(h^2)$ , where  $h$  is the maximum size of the triangles in the mesh.

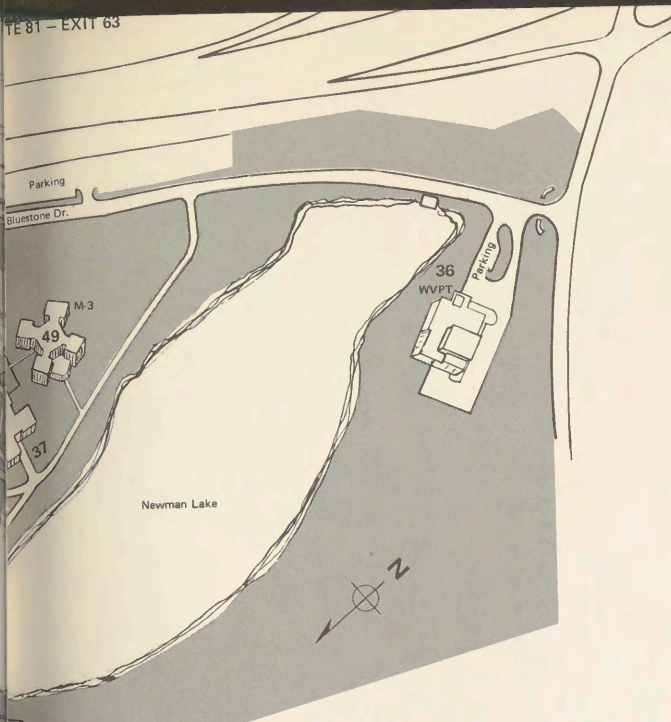
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# Notes



**KEY TO CAMPUS**

1. Gibbons Hall
2. Wilson Hall
3. Maury Hall
4. Moody Hall
5. Varner House — Office of Admissions
6. Jackson Hall
7. Harrison Hall
8. Duke Fine Arts Center
9. Ashby Hall
10. Converse Hall
11. Boiler Plant
12. General Services Building
13. Hoffman Hall
14. Logan Hall
15. Wayland Hall
16. Gifford Hall
17. Health Center
18. Greenhouse
19. Burruss Hall
20. Madison Memorial Library
21. Alumnae Hall
22. Johnston Hall
23. Sheldon Hall
24. Cleveland Hall
25. Spotswood Hall
26. Anthony Seeger Campus School
27. Baker House
28. Nicholas House
29. Shenandoah Apartments
30. Lincoln House
31. Ikenberry Hall
32. Zirkle House
33. Hillcrest
34. Kezell Hall
35. Field House
36. WVPT
37. Shorts Hall
38. Eagle Hall
39. Herbert Huffman Hall
40. Frederikson Hall
41. Chappellear Hall
42. Hanson Hall
43. Dorothy Garber Hall
44. Agness Dingleline Hall
45. Warren Campus Center
46. Godwin Hall
47. Weaver Hall
48. White Hall
49. M-3



## MADISON COLLEGE CAMPUS

### CROSS KEY

Administration	Wilson Hall (2)
Admissions Office	Varner House (5)
Alumni Office	Wilson Hall (2)
Art Department	Duke Center (8)
Athletic Office	Godwin Hall (46)
Auditorium	Wilson Hall (2)
School of Business	Harrison Hall (7)
Cataloging	General Services Building (12)
Communication Arts Department	Zirkle House (32)
Counseling Center	Alumnae Hall (21)
Dining Hall	Gibbons Hall (1)
Dormitories:	Ashby Hall (9)
	Chappelear Hall (41)
	Cleveland Hall (24)
	Converse Hall (10)
	Dingledine Hall (44)
	Eagle Hall (38)
	Frederikson Hall (40)
	Garber Hall (43)
	Gifford Hall (16)
	Hanson Hall (42)
	Hoffman Hall (13)
	Huffman Hall (39)
	Ikenberry Hall (31)
	Johnston Hall (22)
	Logan Hall (14)
	M-3 (49)
	Sheldon Hall (23)
	Shenandoah Apts. (29)
	Shorts Hall (37)
	Spotswood Hall (25)
	Wayland Hall (15)
	Weaver Hall (47)
	White Hall (48)
School of Education (Dean's Office)	Keezell Hall (34)
Educational Television	WVPT (36)
English Department	Keezell Hall (34)
Food Services	Gibbons Hall (1)
Foreign Languages Department	Keezell Hall (34)
General Services	General Services Building (12)
Health Services	Health Center (17)
History Department	Jackson Hall (6)
Home Economics Department	Moody Hall (4)
Laundry	General Services Building (12)
Library	Madison Memorial Library (20)
Media Center	Burruss Hall (19)
Music Department	Duke Center (8)
Natural Sciences	Burruss Hall (19)
Physical Education Department	Godwin Hall (46)
Placement Office	Alumnae Hall (21)
Political Science Department	Harrison Hall (7)
President's Home	Hillcrest (33)
Psychology Department	Johnston Hall (22)
Radio Station WMRA	Alumnae Hall (21)
Reading Center	Nicholas House (28)
Security Office	General Services Building (12)
Sociology Department	Harrison Hall (7)
Special Education Center	Baker House (27)
Special Education Services Department	Maury Hall (3)
Student Activities	Warren Campus Center (45)
Student Laboratory School	Anthony Seeger Campus School (26)
Student Services	Alumnae Hall (21)

**EDGE INDEX**

Bend edges of book down. Open to black line opposite proper designation.

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**SCHOOL OF ARTS AND SCIENCES** ..... p. q  
Departments: Art, Biology, Chemistry, Communication Arts, English, Foreign Languages, Geology, History, Mathematics, Music, Philosophy and Religion, Physics, Political Science and Geography, Sociology

**SCHOOL OF BUSINESS** ..... p. 2q  
Departments: Business Administration-Economics, Business Education-Office Administration, Distributive Education, Home Economics

**SCHOOL OF EDUCATION** ..... p. 2q  
Departments: Elementary and Early Childhood Education, Secondary Education and School Administration, Library Science, Psychology, Special Education Services

**DEPARTMENT OF PHYSICAL AND HEALTH EDUCATION** ..... p. 3q

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