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# MEMPHIS STATE UNIVERSITY BULLETIN

CATALOG ISSUE 1968-1969



## Notice of Fee Increase.

The State Board of Education, at its meeting February 9, 1968, approved a \$5.00 per semester fee increase for all full-time students. The following fee schedule will be in effect beginning with the Fall Semester, 1968. Students should keep this sheet with the 1968-69 University Bulletin, since the Bulletin was printed before the announcement of the fee increase.

### Fall and Spring Semesters

	<i>Residents</i>	<i>Non-Residents</i>
Per semester (full-time student)	\$117.50	\$305.00
Per semester hour (part-time student)	\$ 11.50	\$ 28.50

### The Summer Session (two terms)

	<i>Residents</i>	<i>Non-Residents</i>
Per session (two terms)	\$85.00	\$210.00
Per semester hour	\$11.50	\$ 28.50

(Supplement to Memphis State University Bulletin,  
Catalog Issue, 1968-69)

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and June—by Memphis State University. Second class  
postage paid at Memphis, Tennessee, 38111.

The University reserves the right to cancel or alter any  
part of this Bulletin without notice.

**BULLETIN OF  
MEMPHIS STATE UNIVERSITY**

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*The Fifty-seventh session will open  
Friday, September 13, 1968*

**CATALOG 1968-1969**

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**MEMPHIS, TENNESSEE**

**FEBRUARY 1968**



## Directory for Correspondence

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Inquiries will receive attention if addressed to the administrative offices below at Memphis State University, Memphis, Tennessee 38111.

Admission	Dean of Admissions
Alumni Affairs	Director of Alumni Affairs
Degree Requirements	Dean of the college in which the degree is offered
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Extension Courses	Director, The Division of Continuing Studies
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Registration	Dean of Admissions
Scholarships and Loans	Director of Student Aid
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Transcripts	Dean of Admissions
Veterans' Affairs	Coordinator of Veterans' Affairs

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JANUARY							JULY						
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28	29	30					28	29	30	31			

# Calendar

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## FIRST SEMESTER 1968-69

SEPTEMBER 13, FRIDAY	Meeting of new members of the University faculty, University Auditorium, 9:00 A.M.
SEPTEMBER 16, MONDAY	Meeting of the entire University faculty, University Auditorium, 9:00 A.M.
SEPTEMBER 16, MONDAY	Meeting of the University faculty by colleges and departments, 2:00 P.M.
SEPTEMBER 18, WEDNESDAY through SEPTEMBER 21, SATURDAY	Registration week. For detailed dates and times see <i>The Schedule of Classes</i> for the Fall Semester, 1968-69.
SEPTEMBER 23, MONDAY	Classes meet as scheduled.
SEPTEMBER 27, FRIDAY	Last day for adding courses.
OCTOBER 4, FRIDAY	Holiday: West Tennessee Education Association.
OCTOBER 14, MONDAY	Last day for dropping courses.
OCTOBER 24, THURSDAY	English Proficiency Examination.
OCTOBER 24, THURSDAY	Last day for making application to dean of appropriate college for degrees to be conferred in January, 1969.
NOVEMBER 11, MONDAY	Holiday: Veterans' Day.
NOVEMBER 18, MONDAY	Mid-semester deficiency reports due in Records Office.
NOVEMBER 28, THURSDAY through DECEMBER 1, SUNDAY	Thanksgiving recess.
DECEMBER 22, SUNDAY through JANUARY 5, SUNDAY	Christmas recess.
JANUARY 17, FRIDAY	Final examinations begin.
JANUARY 25, SATURDAY	Commencement.

## SECOND SEMESTER 1969

FEBRUARY 1, SATURDAY	Registration, The Graduate School, 9:00 A.M.
FEBRUARY 3, MONDAY through FEBRUARY 5, WEDNESDAY	Registration. For detailed dates and times see <i>The Schedule of Classes</i> for the Spring Semester, 1969.
FEBRUARY 6, THURSDAY	Classes meet as scheduled.
FEBRUARY 12, WEDNESDAY	Last day for adding courses.
FEBRUARY 26, WEDNESDAY	Last day for dropping courses.
MARCH 10, MONDAY	Last day for making application to dean of appropriate college for degrees to be conferred in May, 1969.
MARCH 13, THURSDAY	English Proficiency Examination.
MARCH 31, MONDAY	Mid-term deficiency reports due in Record Office.
APRIL 6, SUNDAY through APRIL 13, SUNDAY	Spring holidays.
MAY 23, FRIDAY	Final examinations begin.
MAY 31, SATURDAY	Commencement.

## THE SUMMER SESSION, 1969

### FIRST TERM

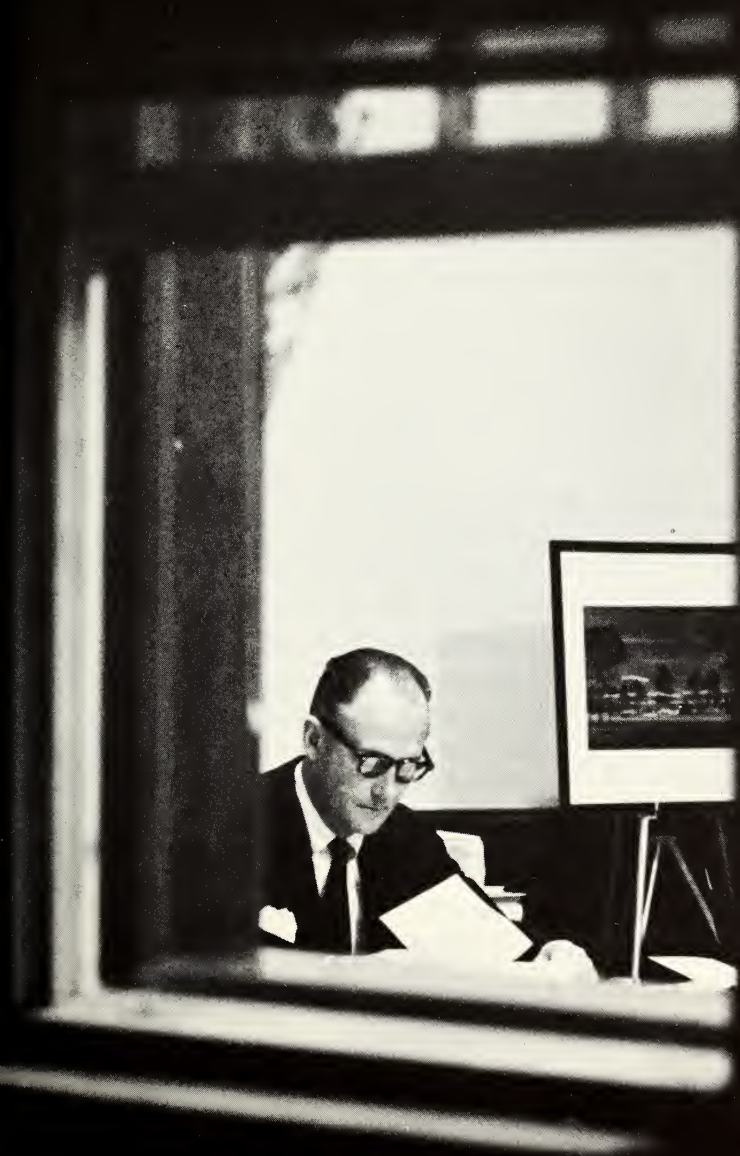
JUNE 8, SUNDAY	Dormitories will open at noon.
JUNE 9, MONDAY and JUNE 10, TUESDAY	Registration. For detailed dates and time see <i>The Schedule of Classes</i> for The Summer Session, 1969.
JUNE 11, WEDNESDAY	Classes meet as scheduled.
JUNE 13, FRIDAY	Last day for adding first-term or second-term courses.
JUNE 17, TUESDAY	Last day for dropping first-term courses.
JUNE 24, TUESDAY	Last day for dropping two-term courses.
JUNE 26, THURSDAY	English Proficiency Examination.
JULY 4, FRIDAY	Holiday: Independence Day.
JULY 17, THURSDAY	Final examinations.

### SECOND TERM

JULY 21, MONDAY	Registration. For detailed dates and times see <i>The Schedule of Classes</i> for The Summer Session, 1969.
JULY 22, TUESDAY	Classes meet as scheduled.
JULY 23, THURSDAY	Last day for adding second-term courses.
JULY 25, FRIDAY	Last day for making application to dean of appropriate college for degrees to be conferred in August, 1969.
JULY 28, MONDAY	Last day for dropping second-term courses.
AUGUST 22, FRIDAY	Final examinations.
AUGUST 23, SATURDAY	Commencement.

# Faculty and Staff

1





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## THE FACULTY

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B.S., 1948, Memphis State University; M.A., 1949, Vanderbilt University.
- LEILA M. ACKLEN** (1966), *Instructor in Health, Physical Education, and Recreation*  
B.S., 1943, Winthrop College; M.S., 1945, University of North Carolina.
- MILTON CALDWELL ADDINGTON** (1959), *Assistant Professor of Psychology*  
B.A., 1947, Southwestern at Memphis; M.A., 1949, Ph.D., 1951, University of Tennessee.
- GABRIELA ADLER** (1966), *Instructor in French and Italian*  
B.A., 1950, Bolyay University (Rumania); M.A., 1966, University of Mississippi.
- DIMITRIOS C. AGOURIDIS** (1967), *Associate Professor of Engineering*  
B.S., 1959, M.S., 1961, Ph.D., 1966, University of Minnesota.
- JESS MCFADDEN ALEXANDER** (1964), *Associate Professor of Art*  
B.A., 1926, Winthrop College; M.A., 1946, Teachers College, Columbia University.
- MILDRED B. ALGEE** (1953), *Assistant Professor of Library Service*  
B.S., 1931, Union University; M.A., 1951, George Peabody College.
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B.S., 1931, Murray State University; M.S., 1941, University of Kentucky; Ph.D., 1951, The Pennsylvania State University.
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- RUTH BRITTON ALMY** (1958), *Instructor in Geography*  
B.S., 1956, M.A., 1957, Memphis State University.
- OTILIE MARIA-ANNA AMMINGER** (1967), *Assistant Professor of Engineering*  
Diplom-Ingenieur, 1947, D.Sc., 1952, Technical University of Vienna (Austria).
- WILLIAM LEO AMMINGER** (1966), *Professor of Engineering*  
Diplom-Ingenieur, 1952, Technical University of Vienna (Austria); Ph.D., 1963, Washington University.
- CAROLYN ELIZABETH ANDERSON** (1967), *Instructor in Speech and Drama*  
B.A., 1965, M.A., 1967, University of Mississippi.
- SAM ARMSTEAD ANDERSON** (1946), *Associate Professor of Mathematics*  
B.A., 1929, Southwestern at Memphis; M.A., 1932, George Peabody College.

EDWARD LUVERNE ANGUS (1966), *Assistant Professor of Political Science*

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BARBARA L. ANTONELLI (1963), *Assistant Professor of Health, Physical Education, and Recreation*

B.A., 1960, Webster College; M.A., 1963, Washington University.

THOMAS C. ASHCRAFT, *Adjunct Assistant Professor of Voice*

B.S., 1959, M.A., 1962, Memphis State University.

HARRY AUSPRICH (1963), *Professor of Speech and Drama*

B.S., 1954, New York State University, College at Buffalo; M.S., 1956, University of Wisconsin; Ph.D., 1963, Michigan State University.

RICHARD F. BACHE (1966), *Captain, United States Air Force, Assistant Professor of Aerospace Studies*

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MARVIN E. BAILEY (1966), *Instructor in English*

B.A., 1962, Southwestern at Memphis; M.A., 1964, Memphis State University.

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B.A., 1960, Luther College; M.A., 1963, Ph.D., 1966, University of Iowa.

CLYDE LOWELL BALL (1964), *Professor of Law*

B.S., 1936, Memphis State University; M.A., 1937, LL.B., 1949, Vanderbilt University.

HAROLD RAMSEY BANCROFT (1962), *Associate Professor of Biology*

B.S., 1958, M.S., 1959, Ph.D., 1962, Mississippi State University.

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B.A., 1944, Abilene Christian College; S.T.B., 1947, S.T.M., 1948, Ph.D., 1955, Harvard University.

MARSHALL DENVER BASHAM (1967), *Instructor in English*

B.A., 1965, Central State College; M.A., 1968, University of Oklahoma.

GLORIA JEAN BAXTER (1965), *Instructor in Speech*

B.A., 1964, Memphis State University; M.A., 1965, Northwestern University.

FRANK WAYNE BEATY (1965), *Instructor in Mathematics*

B.S.E., 1965, M.A., 1965, Missouri State Teachers College.

JOHN P. BEIFUSS (1966), *Associate Professor of English*

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- EUGENE BENCE (1949), *Professor of Speech and Drama*  
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- BURNEY LYNNE BENNETT (1967), *Instructor in English*  
B.A., 1966, M.A., 1967, University of Michigan.
- MICHAEL DONALD BENNETT (1966), *Instructor in Music*  
B.M., 1960, University of Arizona; M.S., 1963, University of Illinois.
- MARTIN BERKOFISKY (1967), *Instructor in Music*  
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- JOHN LAURENCE BERNARD (1967), *Associate Professor of Psychology*  
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- WILLIAM FRANK BETHANY (1957), *Assistant Professor of Mathematics*  
B.S., 1957, Memphis State University; M.S., 1958, University of Mississippi.
- NANCY JANE BILLETT (1963), *Assistant Professor of Secretarial Science*  
B.B.A., 1962, M.A., 1963, Memphis State University.
- SUZANNE BLAIR BLACKSHIRE (1965), *Instructor in Health, Physical Education, and Recreation*  
B.S., 1964, M.A., 1965, Memphis State University.
- LARRY LANIER BLANTON (1965), *Instructor in Mathematics*  
B.S., 1964, M.S., 1965, University of Arkansas.
- ISABELLE WORDNA BOGAN (1966), *Instructor in Secretarial Science*  
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- JAN PARR BOGGS (1967), *Instructor in Education*  
B.A., 1963, Hendrix College; M.A., 1965, Memphis State University.
- RICHARD T. BOHAN (1967), *Assistant Professor of Political Science*  
B.A., 1962, M.A., 1964, Indiana University.
- AARON M. BOOM (1949), *Professor of History*  
B.A., 1940, M.A., 1941, University of Nebraska; Ph.D., 1948, University of Chicago.
- JERRY NEAL BOONE (1962), *Associate Professor of Psychology*  
B.A., 1949, University of Mississippi; M.A., 1951, University of Florida; Ph.D., 1961, Vanderbilt University.
- CARROLL R. BOWMAN (1965), *Assistant Professor of Philosophy*  
B.A., 1956, Mississippi College; M.A., 1960, Ph.D., 1966, Tulane University.
- CATHERINE C. BOYD (1967), *Instructor in English*  
B.A., 1952, Harding College; M.A., 1956, University of Arkansas.
- DONALD A. BOYD (1957), *Assistant Professor of Finance*  
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- WILLIAM B. BREWER (1961), *Associate Professor of Spanish*  
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- JOHN S. BROEKHUIZEN (1967), *Instructor in German*  
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- SAM RAYMOND BROOKS (1966), *Assistant Professor of Mathematics*  
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- WESTON TERRELL BROOKS (1967), *Associate Professor of Technology*  
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- SOPHIA CLARK BROTHERTON (1965), *Assistant Professor of Education*  
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- WILLIAM A. BROTHERTON (1948), *Associate Professor of Technology, Director of Division of Continuing Studies*  
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- BEVERLYE JEAN BROWN (1967), *Instructor in English*  
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- CARL DEE BROWN (1952), *Professor of Biology*  
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- JAMES ALLISON BROWN (1962), *Instructor in Health, Physical Education, and Recreation*  
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- JUDITH COMPTON BROWN (1964), *Assistant Professor of Secretarial Science*  
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- M. GORDON BROWN (1963), *Professor of Spanish*  
B.A., 1927, Washington Missionary College; M.A., 1936, Emory University; Doctor of Letters, 1939, University of Dijon; Doctor of Philosophy and Letters, 1940, University of Madrid.

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B.S., 1956, Davidson College; M.A., 1957, Ph.D., 1964, Northwestern University.

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B.S., 1947, Stevens Point State College; LL.B., 1950, M.S.W., 1958, University of Wisconsin; Ph.D., 1965, Florida State University; J.D., 1966, University of Wisconsin.

ROBERT RAY CUMMINGS (1965), *Assistant Professor of Accountancy*  
B.B.A., 1963, M.B.A., 1965, Memphis State University; C.P.A., 1965, Tennessee.

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B.S., 1956, Middle Tennessee State University; M.A., 1959, George Peabody College.

LAWRENCE WILSON CURBO (1958), *Professor of Accountancy*  
B.B.A., 1950, M.B.A., 1950, University of Mississippi; C.P.A., 1950, Mississippi.

ROBERT STUART CURBO (1962), *Associate Professor of Accountancy*  
B.B.A., 1957, M.B.A., 1958, University of Mississippi; C.P.A., 1965, Mississippi.

FREDERICK NEVILLE CURLEY (1967), *Professor of Law*  
B.S., 1932, University of Pennsylvania; LL.B., 1936, Temple University; M.A., 1940, University of Pennsylvania.

MINNIE McRAE CUTLIFF (1958), *Assistant Professor of Education*  
B.S., 1942, Memphis State University; M.A., 1949, University of Tennessee.

ARTHUR RENICH DAILEY (1960), *Assistant Professor of Spanish*  
B.A., 1938, Carson Newman College; Th.M., 1942, Southern Baptist Theological Seminary; M.A., 1960, University of Mississippi.

MERLIN C. DAILEY (1960), *Associate Professor of Art*  
B.F.A., 1958, Kansas City Art Institute; M.F.A., 1960, Indiana University.

JOHN LASLEY DAMERON (1962), *Associate Professor of English*  
B.S., 1950, M.A., 1952, University of North Carolina; Ph.D., 1962, University of Tennessee.

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- PHIL B. DEBOO (1965), *Associate Professor of Geology*  
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- ROBERT WADE DEININGER (1966), *Associate Professor of Geology*  
B.S., 1950, M.S., 1957, University of Wisconsin; Ph.D., 1964, Rice University.
- THOMAS ORLANDO DEPPERSCHMIDT (1966), *Professor of Economics*  
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- JOHN E. DEWS, JR. (1960), *Associate Professor of Psychology*  
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- GLEN DILLING (1966), *Instructor in Technology*  
B.S.M.E., 1934, Purdue University.
- HARRY ROBERT DODGE (1965), *Professor of Marketing*  
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B.S.N., 1957, University of Tennessee School of Nursing.
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- DELLE FRANK DOWELL (1965), *Instructor in English*  
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B.S., 1950, M.B.A., 1955, University of Buffalo; Ph.D., 1961, Michigan State University; C.P.A., 1960, Michigan.
- LILLIAN F. DURANT (1967), *Instructor in Speech and Hearing*  
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- NANCY ANN DURDEN (1964), *Assistant Professor of Health, Physical Education, and Recreation*  
B.S., 1959, Woman's College of Georgia; M.S., 1962, University of Tennessee.
- PAUL B. EAHEART (1946), *Professor of Music*  
B.S., 1937, Memphis State University; M.A., 1946, Northwestern University.
- JOHN BLANTON EDGAR, JR. (1960), *Assistant Professor of Real Estate*  
B.S., 1940, U. S. Naval Academy; Vet. Cert., 1947, Harvard School of Business Administration; M.A., 1961, Memphis State University.

FAITH HARRIET EIKAAS (1966), *Associate Professor of Sociology*  
B.A., 1948, M.A., 1954, D.S.Sc., 1958, Syracuse University.

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B.S.E., 1940, M.S., 1943, University of Tennessee.

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B.M., 1956, University of Montana; M.M., 1961, University of Illinois.

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B.S., 1944, Central University of Tokyo; M.A., 1950, Yale University; Ph.D.,  
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- DEWEY BRAY FOLDEN, JR. (1949), *Associate Professor of Biology*  
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- VERA FOROSTENKO (1967), *Instructor in Russian*  
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- RONALD LYNN FOSTER (1967), *Instructor in Mathematics*  
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- JESSE WELLS FOX (1947), *Professor of Chemistry*  
B.S., 1931, M.A., 1937, George Peabody College.
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B.S., 1937, M.A., 1940, George Peabody College.
- EFRIM FRUCHTMAN (1967), *Associate Professor of Music*  
B.S., 1948, Juilliard School of Music; M.A., 1951, Ph.D., 1960, University of North Carolina.
- HOWARD EDWARD FRYE (1955), *Assistant Professor of Geography*  
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- ROLAND LEE FRYE (1966), *Professor of Psychology*  
B.S., 1955, M.A., 1956, University of Southern Mississippi; Ph.D., 1961, Louisiana State University.
- JOHN NEILSON FURNISS (1967), *Instructor in English*  
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- WALTER CURRIE FURR, JR. (1963), *Instructor in English*  
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B.S., 1951, Clemson University.
- EUSEBIO E. GARCIA** (1966), *Instructor in French*  
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- MICHAEL MCKEE GARLAND** (1965), *Associate Professor of Physics*  
B.A., 1961, Austin Peay State University; Ph.D., 1965, Clemson University.
- WILLIAM WALTON GARRETT** (1963), *Professor of Law*  
B.S., 1949, University of Alabama; LL.B., 1954, Birmingham School of Law;  
LL.B., 1963, Cumberland School of Law; LL.M., 1963, Yale University.
- VIRGILIO GAVILONDO** (1963) *Instructor in Modern Languages*  
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- WILLIAM R. GILLASPIE** (1961), *Associate Professor of History*  
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- LUNCEFORD PIERCE GILLENLINE** (1967), *Instructor in Technology*  
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sity.
- LEWIS WILLIAM GODLOVE** (1967), *Assistant Professor of Education*  
B.A., 1941, University of Illinois; M.A., 1946, Columbia University; M.Ed.,  
1957, Ed.D., 1961, University of Mississippi.
- ROSS MICHAEL GOLD** (1967), *Instructor in English*  
B.A., 1966, University of Pennsylvania; M.A., 1967, University of Chicago.
- NELSON L. GONYAW, JR.**, (1967), *Instructor in Technology*  
B.S.C.E., 1962, University of Mississippi.
- JAMES THOMAS GOODWIN** (1967), *Instructor in Biology*  
B.S., 1964, Memphis State University; M.S., 1965, University of Tennessee.
- ELAINE K. GORDON** (1967), *Instructor in Speech and Hearing*  
B.A., 1955, Queens College; M.A., 1959, Columbia University.



JOHN RAMSEY GORDON (1947), *Professor of Sociology*

B.A., 1929, M.A., 1932, Baylor University; Ph.D., 1951, University of Texas.

FRANK H. GOVAN (1956), *Professor of Art*

B.A., 1938, Hendrix College; M.A., 1951, Columbia University.

\*ROBERT B. GRAY (1965), *Assistant Professor of Secretarial Science*

B.S., 1954, M.S., 1958, University of Southern Mississippi.

BOBBY GENE GREER (1967), *Assistant Professor of Education*

B.S., 1960, North Texas State University; M. Ed., 1961, University of Arkansas; Ph.D., 1965, University of Texas.

HUGH D. GREGG (1967), *Captain, United States Air Force, Assistant Professor of Aerospace Studies*

B.A., 1961, Gordon College.

ANN THOMPSON HALL (1967), *Instructor in Speech and Hearing*

B.S., 1960, University of Tennessee; M.S., 1962, University of Wisconsin.

TOM HAMBY (1967), *Instructor in Health, Physical Education, and Recreation*

B.A., 1961, Oklahoma State University; M.A., 1965, North Texas State University.

DOUGLAS E. HAMILTON (1966), *Captain, United States Air Force, Assistant Professor of Aerospace Studies*

B.S., 1960, University of Alabama.

GRACE DANFORTH HAMPTON (1964), *Instructor in English*

B.S., 1925, M.A., 1930, University of Illinois.

MICHAEL HENRY HAMRICK (1967), *Instructor in Health, Physical Education, and Recreation*

B.S., 1966, M. Ed., 1967, Memphis State University.

JAMES WILLIAM HARDIN (1967), *Instructor in Biology*

B.S., 1965, M.S., 1967, University of Kentucky.

GEORGE JONES HARRIS (1947), *Professor of Music*

B.A., 1936, Greenville College; M.M., 1947, Northwestern University.

RAYMOND ELLIS HARTLEY (1967), *Professor of Psychology*

B.A., 1942, M.A., 1947, University of Kansas; Ph.D., 1952, University of Chicago.

MICHAEL J. HARVEY (1966), *Assistant Professor of Biology*

B.S., 1958, Eastern Illinois University; M.A., 1962, Stephen F. Austin State College; Ph.D., 1967, University of Kentucky.

SHARON ELIZABETH HARWOOD (1967), *Instructor in French*

B.S., 1966, M.A., 1967, Memphis State University.

ZAFRUL M. HASAN (1964), *Assistant Professor of Sociology*

B.A., 1951, Panjab University; M.A., 1959, Louisiana State University.

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\*On leave of absence, 1967-68.

- BARBARA SHORT HASKEW (1965), *Assistant Professor of Economics*  
B.S., 1962, University of Tennessee.
- JUDITH ANN HASTINGS (1967), *Instructor in Political Science*  
B.A., 1964, M.S., 1965, Kansas State College of Pittsburg.
- RALPH L. HATLEY (1947), *Professor of Health, Physical Education, and Recreation*  
B.S., 1936, M.S., 1950, University of Tennessee.
- GABE C. HAWKINS (1962), *Assistant Professor of Technology*  
B.S., 1940, Mississippi State University; B.S., 1949, U.S.A.F. Institute of Technology; M.A., 1962, Memphis State University.
- HERSCHEL MOORE HAYES (1952), *Associate Professor of Chemistry*  
B.S., 1949, Middle Tennessee State University; M.A., 1950, George Peabody College.
- ALBERT FORD HAYNES, JR. (1954), *Professor of Education*  
B.S., 1941, M.A., 1954, Memphis State University; Ed.D., 1958, University of Tennessee.
- VELMA BROOKS HEATHERLY (1932), *Professor of French*  
B.S., 1928, M.A., 1932, George Peabody College.
- MYLO L. HEEN (1961), *Assistant Professor of Mathematics*  
B.S., 1938, University of North Dakota; M.S., 1961, Purdue University.
- CHARLES S. HENDERSON (1963), *Assistant Professor of Sociology*  
B.A., 1952, Vanderbilt University; M.A., 1953, George Peabody College.
- EMMA CLAIRE HENRY (1965), *Assistant Professor of Education*  
B.S., 1952, M.A., 1953, Memphis State University.
- HERBERT ALLEN HERMANN (1957), *Associate Professor of Music*  
B.Mus., 1951, M.Mus., 1953, D.Mus., 1962, Indiana University.
- JAMES CAROL HERTTER (1966), *Instructor in Art*  
B.F.A., 1964, M.F.A., 1966, University of Illinois.
- TRUEL DWIGHT HICKS (1966), *Assistant Professor of Accountancy*  
B.S., 1954, M.B.A., 1960, University of Southern Mississippi.
- GIBSON W. HIGGINS (1967), *Assistant Professor of Chemistry*  
B.S., 1962, Birmingham-Southern College; Ph.D., 1966, Georgia Institute of Technology.
- BETTY EDMISTON HILL (1967), *Instructor in Education*  
B.S., 1963, M.A., 1965, Memphis State University.
- \*JOHN R. HIRSCHMANN (1955), *Assistant Professor of Technology*  
B.S., 1953, Memphis State University; M.A., 1958, George Peabody College.
- GEORGE GLYN HITT (1966), *Instructor in Technology*  
B.S., 1960, M.Ed., 1966, Mississippi State University.

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\*On leave of absence, 1967-68

- JAMES CLIFFORD HODGETTS (1965), *Professor of Management*  
B.S., 1948, University of Kentucky; M.A., 1949, University of Louisville;  
Ph.D., 1954, University of North Dakota.
- B. JAMES HOGGATT (1962), *Assistant Professor of Health, Physical Education, and Recreation*  
B.S., 1953, M.A., 1962, Memphis State University
- S. THOMAS HOLBROOK (1966), *Assistant Professor of Economics*  
B.S.-B.A., 1958, M.B.A., 1961, University of Arkansas.
- WILLIAM SLATER HOLLIS (1961), *Associate Professor of Management*  
B.S.B.A., 1952, LL.B., 1958, University of Arkansas; M.A., 1962, Memphis State University.
- ELMORE HOLMES (1947), *Professor of Chemistry*  
B.S., 1922, Princeton University; M.A., 1926, Columbia University; Ph.D., 1947, University of Tennessee.
- CHARLES HILTON HOPPER (1966), *Instructor in Technology*  
B.S., 1955, M.S., 1956, Florida State University.
- EDWARD EVANS HOSKINS (1965), *Assistant Professor of Management*  
B.A., 1939, University of Kansas; LL.B., 1949, Southern Law School; M.A., 1965, Memphis State University.
- RAY SMALLEY HOUSE (1963), *Associate Professor of Marketing*  
B.S., 1950, Union University; M.B.A., 1962, Ph.D., 1966, University of Mississippi.
- DOUGLAS TURNER HOWARD, JR. (1966), *Instructor in English*  
B.S., 1964, University of Southern Mississippi; M.A., 1966, San Francisco State College.
- ELMO H. HOWELL (1957), *Professor of English*  
B.A., 1940, University of Mississippi; M.A., 1948, Ph.D., 1955, University of Florida.
- GOLDEN LEON HOWELL (1961), *Professor of Biology*  
B.S., 1950, M.S., 1954, Ph.D., 1959, University of Alabama.
- WILLIAM HENRY HOWICK (1967), *Associate Professor of Education*  
Th.B., 1948, Canadian College; A.B., 1950, Trevecca College; M.A., 1952, M.Ed., 1953, Ph.D., 1963, George Peabody College.
- HENRY KORB HOYT (1965), *Instructor in Management*  
LL.B., 1937, Vanderbilt University; B.A., 1964, M.B.A., 1965, Memphis State University.
- THOMAS MEARS HUGHES (1967), *Assistant Professor of Education*  
B.S., 1953, M.A., 1959, Memphis State University; Ed.D., 1967, University of Tennessee.
- MELVIN A. HUMPHREYS (1962), *Assistant Professor of Health, Physical Education, and Recreation*  
B.S., 1959, B.S., 1961, University of Tennessee; M.A., 1962, Memphis State University.

EDWARD EVERHART HUNT (1965), *Assistant Professor of Management*

B.B.A., 1948, M.P.A., 1949, New York University.

FORREST JACK HURLEY (1966), *Instructor in History*

B.A., 1962, Austin College; M.A., 1966, Tulane University.

LEMELY DAVID HUTT, JR. (1967), *Assistant Professor of Psychology*

B.A., 1963, M.A., 1965, Ph.D., 1968, University of Arkansas.

MICHAEL IHNATENKO (1967), *Assistant Professor of History*

B.S., 1962, Central Connecticut State College; M.A., 1966, The Pennsylvania State University.

CHARLES CARROLL IJAMS (1947), *Professor of Physics*

B.A., 1936, Union University; M.S., 1937, Ph.D., 1941, Vanderbilt University.

FLORENCE V. ILLING, R.N. (1951), *Assistant Professor of Health, Physical Education, and Recreation*

G.N., 1936, Medical College of South Carolina; B.S., 1950, George Peabody College; M.A., 1953, Memphis State University.

WILLIAM ROBERT INGRAM (1957), *Assistant Professor of Marketing*

B.S., 1956, Arkansas Polytechnic College; M.B.A., 1957, University of Arkansas.

MARQUITA LADORE IRLAND (1967), *Professor of Home Economics*

B.S., 1942, M.A., 1947, Michigan State University; Ed.D., 1956, Wayne State University.

JOHN ALLISON IRWIN (1967), *Assistant Professor of Speech and Hearing*

B.A., 1948, Ohio Wesleyan University; M.A., 1950, Western Reserve University.

GENE G. JAMES (1964), *Assistant Professor of Philosophy*

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ELAINE MARSHA JEKELS (1965), *Instructor in Health, Physical Education, and Recreation*

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B.A., 1957, Southeastern Louisiana College; M.A., 1965, Louisiana State University.

RIENZI WILSON JENNINGS (1951), *Professor of Secretarial Science and Office Management.*

B.S., 1927, University of Iowa; M.A., 1928, Ph.D., 1949, University of Kentucky.

CHARLES ARTHUR JENS (1965), *Professor of Law*

B.A., 1930, LL.B., 1935, University of Michigan.

RONALD JERIT (1966), *Assistant Professor of Speech and Drama*

B.A., 1956, M.A., 1958, University of Illinois.

- WILLIAM HOWARD JERMANN (1967), *Assistant Professor of Engineering*  
B.E.E., 1958, M.A., 1962, University of Detroit; Ph.D., 1967, University of Connecticut.
- ALBERT EDWARD JOHNSON (1966), *Professor of Speech and Drama*  
B.A., 1934, M.A., 1936, University of Virginia; Ph.D., 1948, Cornell University.
- DANA DOANE JOHNSON (1954), *Professor of Art*  
B.A., 1937, Dartmouth; M.Ed., 1947, Ed.D., 1954, Boston University.
- GLENN ALBERT JOHNSON (1956), *Assistant Professor of Health, Physical Education, and Recreation*  
B.A., 1924, Huntington College; M.A., 1930, Columbia University.
- LEE R. JOHNSON (1966), *Instructor in History*  
B.A., 1949, Harvard University; M.A., 1955, American University of Beirut.
- SAM HOWARD JOHNSON (1949), *Professor of Education, Dean of The College of Education*  
B.S., 1931, Memphis State University; M.A., 1939, Columbia University; Ed.D., 1954, New York University.
- VIRGINIA LEE JOHNSON (1940), *Associate Professor of Secretarial Science and Office Management*  
B.S., 1930, Memphis State University; M.S., 1944, University of Tennessee.
- DONALD PETER JOHNSTON (1966), *Associate Professor of Education*  
B.A., 1955, St. John's University; M.A., 1957, Ed.D., 1962, New York University.
- ELLIOTT ANNA JONES (1963), *Instructor in English*  
B.A., 1960, Millsaps College; M.A., 1962, University of Arkansas.
- BERKLEY KALIN (1966), *Assistant Professor of History*  
B.A., 1956, Washington University; M.A., 1960, Ph.D., 1967, St. Louis University.
- HELEN H. KALTENBORN (1946), *Assistant Professor of Mathematics*  
B.A., 1931, Barnard College; M.A., 1934, Columbia University; Ph.D., 1936, University of Michigan.
- HOWARD S. KALTENBORN (1946), *Professor of Mathematics*  
B.S., 1928, Carnegie Institute of Technology; M.S., 1931, Ph.D., 1934, University of Michigan.
- KEITH SEVIER KAYS (1966), *Instructor in Art*  
B.Arch., 1966, Auburn University.
- FREDERIC HARTWELL KELLOGG (1964), *Professor of Engineering, Dean of The Herff College of Engineering*  
Geol.E., 1927, Colorado School of Mines; M.A., 1929, Ph.D., 1934, Johns Hopkins University.



LEO JAY KELLY (1965), *Professor of Education*

B.S.Ed., 1950, Nebraska State College; M.A., 1952, Ed.D., 1960, Colorado State College.

TROY WILBERT KELLY (1967), *Associate Professor of Education*

B.S., 1949, M.A., 1953, Murray State University; Ph.D., 1967, Southern Illinois University.

CHARLES FRANCIS KEMPSTER (1964), *Instructor in Speech and Drama*

A.B., 1954, A.M., 1959, St. Louis University.

MONTÉ RAY KENASTON (1966), *Assistant Professor of Sociology*

B.S., 1957, University of Texas; M.A., 1966, Washington State University.

JAMES KEITH KENNEDY (1965), *Associate Professor of Speech and Drama, Director of University Theatre*

B.A., 1957, Southwest Texas State College; M.A., 1958, Ph.D., 1963, University of Florida.

WILLIAM ERNEST KING (1966), *Instructor in English*

B.S., 1964, Memphis State University; M.A., 1966, University of Washington.

HOWARD GRADEN KIRKSEY (1965), *Assistant Professor of Chemistry*

B.S., 1961, Middle Tennessee State University; Ph.D., 1966, Auburn University.

RICHARD HARWOOD KNOWLES (1966), *Assistant Professor of Art*

B.A., 1956, Northwestern University; M.A., 1961, Indiana University.

DIANE MELODY KOLLOR (1967), *Instructor in English*

B.A., 1964, Texas Wesleyan College; M.A., 1966, Texas Christian University.

\*IRL BROWN KRAUSE (1957), *Associate Professor of Education*

B.A., 1944, Westminster College; M.A., 1949, Ed.D., 1954, University of Mississippi.

ABRAHAM DAVID KRIEGLER (1964), *Assistant Professor of History*

B.A., 1958, Hunter College; M.A., 1960, Ph.D., 1965, Duke University.

REVA MARK KRIEGLER (1965), *Instructor in History*

B.A., 1962, Barnard College.

ZELMA W. KUBIK (1963), *Instructor in English*

B.S., 1936, University of Missouri; M.A., 1961, Memphis State University.

EDWIN MURRAY LABOUNTY (1962), *Associate Professor of Music*

A.B., 1948, Yankton College; B.M., 1951, M.M., 1952, Mus.D., 1962, Indiana University.

ROGER STEVEN LANGDON (1965), *Instructor in Art*

B.S., 1963, East Tennessee State University; M.F.A., 1965, Florida State University.

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\*On leave of absence, 1967-68

- AMELIA S. LARD (1965), *Assistant Professor of Secretarial Science*  
B.S., 1956, M.A., 1957, University of Southern Mississippi.
- LONNIE DELMER LARD (1965), *Assistant Professor of Management*  
B.S., 1957, M.S., 1963, University of Southern Mississippi.
- FREDERIC O. LARRABEE (1954), *Professor of Business Law*  
B.A., 1927, LL.B., 1930, University of Iowa.
- JOSEPH STANLEY LASKI (1967), *Associate Professor of Management*  
B.B.A., 1956, George Washington University; M.B.A., 1961, University of Texas; Ph.D., 1965, American University.
- BETTE C. LATTA (1966), *Instructor in English*  
B.S., 1964, M.A., 1965, Memphis State University.
- HARRIETTE JOAN LAVENUE (1967), *Assistant Professor of Health, Physical Education, and Recreation*  
B.S., 1960, University of Tennessee at Martin; M.S., 1961, University of Tennessee.
- JOSEPH STANLEY LAYNE (1965), *Assistant Professor of Biology*  
B.S., 1959, Marshall University; M.S., 1961, University of Arkansas; Ph.D., 1964, University of Mississippi Medical Center.
- FRANK CRAGG LEEMING (1963), *Associate Professor of Psychology*  
B.S., 1958, University of Illinois; M.A., 1961, Ph.D., 1963, University of Mississippi.
- DAVID E. LEMASTER (1966), *Captain, United States Air Force, Assistant Professor of Aerospace Studies*  
B.A., 1958, Oklahoma State University.
- GEORGE B. LEON (1962), *Associate Professor of History*  
A.B., 1956, M.A., 1957, Ph.D., 1961, University of Georgia.
- SUSAN LESHNOWER (1967), *Instructor in French*  
Diplome Superier d' Etudes Francaises, 1964, University of Strasbourg, France; B.A., 1965, University of Illinois; M.A., 1966, University of Chicago.
- STEPHEN PAUL LIGHTMAN (1967), *Instructor in Management*  
B.A., 1965, Southwestern at Memphis; M.B.A., 1967, Northwestern University.
- MARGARET ANN LINDSAY (1967), *Instructor in Speech and Hearing*  
B.S., 1963, University of Tennessee; M.S., 1964, Vanderbilt University.
- CHARLES E. LONG (1957), *Professor of English and Germanic Philology*  
B.A., 1951, Henderson State Teachers College; M.A., (English), 1955, M.A. (German), 1956, Ph.D., 1963, University of Arkansas.
- CHARLES JOSEPH LONG (1967), *Assistant Professor of Psychology*  
B.S., 1960, M.A., 1962, Memphis State University; Ph.D., 1966, Vanderbilt University.

- L. DUPRÉ LONG (1964), *Assistant Professor of Journalism*  
B.S., 1958, East Texas State College; M.A., 1961, University of Missouri.
- WADE HAMPTON LONG (1967), *Instructor in Physics*  
B.S., 1967, Memphis State University.
- FRANKLIN CORDELL LOWE (1966), *Assistant Professor of Accountancy*  
B.B.A., 1959, M.B.A., 1960, University of Mississippi; C.P.A., 1965, Mississippi.
- PAUL RUSSELL LOWRY (1963), *Associate Professor of Management, Director, Division of Regional and Urban Studies*  
B.S., 1941, M.B.A., 1959, Texas A&M University.
- FREDERICK LUBRANI (1962), *Associate Professor of Music*  
B.S., 1939, University of Cincinnati; Diploma in Clarinet, 1939, Cincinnati Conservatory of Music; M.M., 1946, Cincinnati Conservatory of Music.
- THALIA JOYCE LUCKEY (1966), *Instructor in English*  
B.A., 1963, M.A., 1965, University of Georgia.
- DAVID NORMAN LUMSDEN (1967), *Assistant Professor of Geology*  
B.A., 1958, M.A., 1960, State University of New York at Buffalo; Ph.D., 1965, University of Illinois.
- MICHAEL BURKE LUPFER (1964), *Assistant Professor of Psychology*  
B.A., 1959, Southwestern at Memphis; M.S., 1963, Ph.D., 1964, University of Miami.
- SHIRLEY LAND LUPFER (1963), *Assistant Professor of Psychology*  
B.A., 1959, Coker College; M.A., 1961, Vanderbilt University.
- DANIEL WILLIS LYNCH (1966), *Associate Professor of Economics*  
B.A., 1950, University of Notre Dame; M.A., 1956, Fordham University; Ph.D., 1965, University of Kentucky.
- RAYMOND MARTIN LYNCH (1966), *Associate Professor of Music*  
B.S., 1953, Davidson College; M.M., 1957, D.M., 1965, University of Michigan.
- WILMER EVERETT MACNAIR (1966), *Associate Professor of Sociology*  
B.A., 1953, Park College; M.S., 1960, Ph.D., 1965, University of Wisconsin.
- ROBERT E. MAGOWAN (1967) *Assistant Professor of Technology*  
B.S., 1960, M.A., 1961, Eastern Kentucky University; Ed.D., 1967, Texas A&M University.
- PAUL MAHAR (1966), *Instructor in Health, Physical Education, and Recreation*  
B.S., 1965, M.S., 1966, Memphis State University.
- HARRY RICHARD MAHOOD (1964), *Associate Professor of Political Science*  
B.A., 1951, M.A., 1952, University of Oklahoma; Ph.D., 1960, University of Illinois.

- RAMONA MADSON MAHOOD (1964), *Instructor in Education*  
B.S., 1955, Utah State University; M.S., 1959, University of Illinois.
- STEPHEN D. MALIN (1964), *Assistant Professor of Speech and Drama*  
B.A., 1957, The Pennsylvania State University; M.A., 1962, University of Florida.
- HERBERT JOHN MARKLE (1951), *Professor of Economics, Dean of The College of Business Administration*  
B.B.A., 1932, University of Minnesota; M.A., 1949, Ph.D., 1951, University of Iowa.
- IRMA GREER MARKS (1944), *Assistant Professor of Chemistry*  
B.S., 1944, Memphis State University; M.S., 1950, University of Arkansas.
- OUIDA CLARE MARSHALL (1967), *Instructor in Secretarial Science*  
B.B.A., 1966, M.E., 1967, Memphis State University.
- ROBERT HERMAN MARSHALL (1960), *Professor of Chemistry*  
B.S., 1947, M.S., 1950, Illinois State Normal University; Ph.D., 1954, University of Illinois.
- WILLIAM RAY MARTY (1965), *Assistant Professor of Political Science*  
B.A., 1960, University of Oklahoma; M.A., 1964, Duke University.
- JAMES F. MASON, JR. (1967), *Captain, United States Air Force, Assistant Professor of Aerospace Studies*  
B.S., 1962, East Texas State College.
- JAMES S. MATTHEWS (1949), *Professor of Geography*  
B.S., 1936, M.A., 1941, Kent State University; Ph.D., 1949, University of Chicago.
- JERRY BOB MATTHEWS (1965), *Instructor in English*  
B.A., 1960, M.A., 1966, Baylor University.
- ETHEL TAYLOR MAXWELL, *Adjunct Professor of Voice*  
B.A., 1939, Southwestern at Memphis; M.A., 1956, Memphis State University.
- JAMES EUGENE MCALPIN (1961), *Assistant Professor of Technology*  
B.S., 1957, Memphis State University; M.A., 1959, George Peabody College.
- ELNA BROWNING MCBRIDE (1946), *Professor of Mathematics*  
B.S., 1930, M.S., 1931, University of Tennessee; Ed.D. in Mathematics, 1966, University of Michigan.
- G. MICHAEL MCCARTHY (1966), *Instructor in History*  
B.A., 1962, Regis College; M.A., 1964, University of Denver.
- EDWARD DONALD MCDANIEL (1967), *Assistant Professor of Education*  
B.S., 1958, M.A., 1959, Ed.D., 1963, University of Alabama.

- EILEEN McDONNELL (1967), *Instructor in Speech and Hearing*  
B.A., 1953, Allegheny College; M.A., 1955, Syracuse University.
- JOE ALBERT MCEACHERN (1962), *Assistant Professor of Mathematics*  
B.S., 1931, University of Tennessee; M.S., 1961, George Washington University.
- MAURICE CRAWFORD MCGEE (1966), *Assistant Professor of Physics*  
B.S., 1962, Memphis State University; M.A., 1965, The College of William and Mary.
- MAJOR GERALD MCGOUGH (1967), *Instructor in French*  
B.A., 1955, M.S. (English), 1958, Arkansas State University; M.A. (French), 1967, Memphis State University.
- ROBERT W. MCGOWAN (1949), *Associate Professor of Biology*  
B.A., 1946, Lambuth College; M.A., 1947, George Peabody College.
- VERNA SUE AUSTIN MCHANEY (1967), *Instructor in Speech and Hearing*  
B.A., 1963, University of Arkansas; Master of Communication Disorders, 1965, University of Oklahoma.
- CHARLES HARRISON MCNUTT (1964), *Associate Professor of Anthropology*  
B.S., 1950, University of the South; M.A., 1954, University of New Mexico; Ph.D., 1960, University of Michigan.
- JACK E. MILLER (1967), *Assistant Professor of Education*  
B.A.B., 1953, M.Ed., 1958, University of Texas; Ed.D., 1964, University of Oklahoma.
- WILLIAM MILLS (1967), *Instructor in English*  
B.A., 1950, Southwestern at Memphis; M.A., 1968, Vanderbilt University.
- HUBERT LEE MINTON, JR. (1965), *Assistant Professor of Mathematics*  
B.A., 1955, M.A., 1961, University of Texas.
- SARAH JENSEN MIRAVALLE (1967), *Instructor in Mathematics*  
B.S., 1953, University of Alabama; M.S., 1956, North Carolina State University.
- RONALD P. MISCHAK (1967), *Instructor in Biology*  
B.A., 1963, Wilkes College; M.S., 1967, Memphis State University.
- KELL FREEMAN MITCHELL, JR. (1963), *Assistant Professor of History*  
B.A., 1957, M.A., 1960, Ph.D., 1966, University of Georgia.
- JAMES ALEXANDER MONTGOMERY (1962), *Instructor in Biology*  
B.S., 1960, M.A., 1962, Memphis State University.
- JOE ARTHUR MOORE (1963), *Professor of Law*  
B.A., 1948, Oklahoma State University; LL.B., 1949, University of Oklahoma; LL.M., 1963, Southern Methodist University.



NELLE ELIZABETH MOORE (1956), *Assistant Professor of Education*

B.A., 1930, Lambuth College; M.A., 1946, Duke University.

PHILLIP STEVEN MORRIS (1966), *Associate Professor of Art*

B.A., 1960, B.S. (Arch.), 1961, Rice University; M.F.A., 1963, Princeton University.

MARKESAN MORRISON (1965), *Instructor in English*

B.A., 1959, Southwestern at Memphis; M.A., 1962, University of Mississippi.

MAC R. MOSELEY (1967), *Assistant Professor of Speech and Drama*

B.A., 1952, Baylor University; M.A., 1959, San Francisco State College.

\*EDWARD NEWTON MOSLEY (1962), *Instructor in Mathematics*

B.A., 1960, Arkansas College; M.S., 1962, University of Arkansas.

JUDITH STUART MUHLHEIZLER (1966), *Instructor in English*

B.A., 1965, Catawba College; M.A., 1966, University of North Carolina.

BELA MUKHOTI (1966), *Assistant Professor of Economics*

B.A., 1950, M.A., 1953, University of Calcutta; Ph.D., 1964, London School of Economics.

SANTIRANJAN MUKHOTI (1966), *Assistant Professor of Mathematics*

B.Sc., 1947, M.Sc., 1952, University of Calcutta; Ph.D., 1965, University of London.

HARWOOD F. MULLIKIN (1967), *Professor of Engineering*

B.S., 1930, Johns Hopkins University; M.S., 1931, M.E., 1932, Ph.D., 1934, Yale University.

BILLY J. MURPHY (1947), *Instructor in Health, Physical Education, and Recreation*

B.S., 1946, Mississippi State University.

JOSEPH ANTHONY MURPHY, JR. (1967), *Major, United States Air Force, Assistant Professor of Aerospace Studies*

B.G.E., 1959, University of Omaha.

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B.A., 1949, M.A., 1950, University of Mississippi.

JOHN MILLEDGE NAIL (1962), *Instructor in English*

B.A., 1955, Southwestern at Memphis; M.A., 1961, Tulane University.

RONALD ANTHONY NALDI (1967), *Instructor in Music*

B.M., 1964, M.M., 1965, Indiana University.

CHARLES H. NASH (1961), *Instructor in Anthropology, Director of Chucalissa Museum*

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- ARTHUR RAY NAVE (1965), *Instructor in Art*  
B.Arch., 1965, Auburn University.
- DELBERT P. NAVE (1950), *Assistant Professor of Art*  
B.Ed., 1934, Eastern Illinois University; M.A., 1939, The Ohio State University.
- REX A. NELSON (1966), *Associate Professor of Industrial Arts Education*  
B.S., 1957, M.S., 1958, Fort Hays Kansas State College; Ed.D., 1964, Colorado State College.
- EMIL CHARLES NEMITZ (1954), *Assistant Professor of Chemistry*  
B.S., 1922, University of Illinois; M.A., 1955, Memphis State University.
- CHARLES HOWARD NEWTON (1963), *Professor of Sociology*  
B.A., 1956, M.A., 1958, University of Nebraska; Ph.D., 1962, Florida State University.
- PEGGY NORMAN (1967), *Associate Professor of Nursing*  
B.S.N., 1956, University of Tennessee School of Nursing; M.S.N. Ed., 1963, Indiana University.
- PHILLIP K. NORTHMAN (1967), *Instructor in English*  
A.B., 1964, Wayne State University; M.A., 1965, Northwestern University.
- ELBERT F. NOTHERN (1958), *Professor of Education*  
B.S.E., 1947, University of Arkansas; Ed.M., 1949, Harvard University; Ed.D., 1953, University of Arkansas.
- RICHARD B. O'CONNELL (1967), *Professor of German*  
B.A., 1946, M.A., 1949, Ph.D., 1951, University of Minnesota.
- MICHAEL PATRICK O'HARA (1967), *Instructor in Art*  
B.F.A., 1960, Memphis State University; M.F.A., 1966, University of Georgia.
- LEWIS B. O'KELLY (1962), *Assistant Professor of Physics*  
B.S., 1957, Memphis State University; M.S., 1960, Vanderbilt University.
- RONALD DAVID OLSON (1967), *Instructor in History*  
B.A., 1965, Luther College; M.A., 1966, University of Chicago.
- MARCUS W. ORR (1959), *Associate Professor of History*  
B.A., 1952, Southwestern at Memphis; M.A., 1956, Ph.D., 1958, University of Illinois.
- MICHAEL McDONALD OSBORN (1966), *Associate Professor of Speech and Drama*  
B.A., 1958, M.A., 1959, University of South Carolina; Ph.D., 1963, University of Florida.
- GEORGE D. OSBORNE (1966), *Assistant Professor of Music*  
B.M., 1960, Oklahoma City University; M.M., 1964, Indiana University.
- WILLIAM ROBERT OSBORNE (1955), *Professor of English*  
B.A., 1948, Ouachita College; M.A., 1949, Ph.D., 1955, George Peabody College.

BETTY HULL OWEN (1959), *Assistant Professor of Health, Physical Education, and Recreation*

B.S., 1956, Memphis State University; M.P.E., 1960, Purdue University.

ROY LAYTON OWENS (1963), *Instructor in Art*

M.F.A., 1961, Los Angeles County Art Institute.

WILLIAM HOWARD PAGE (1962), *Instructor in English*

B.S., 1956, Middle Tennessee State University; M.A., 1957, George Peabody College.

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PATSY RUTH PARCHMAN (1967), *Instructor in Secretarial Science*

B.B.A., 1964, Baylor University; M.Ed., 1967, Memphis State University.

LEA GIBBS PARK (1954), *Associate Professor of Speech and Drama*

B.S., 1956, M.A., 1957, Memphis State University; Ph.D., 1966, Northwestern University.

MAURICE ALFRED PARKINSON (1962), *Associate Professor of French*

B.A., 1927, Erskine College; M.A., 1944, George Peabody College; Ph.D., 1954, University of North Carolina.

SHERMAN WILLIAM PARRY (1962), *Assistant Professor of Mathematics*

B.S., 1940, Union College; M.S., 1962, Purdue University.

RAYMOND J. PARSONS (1966), *Major, United States Air Force, Assistant Professor of Aerospace Studies*

B.S., 1960, University of Louisville.

JOHN WEST PATRICK (1962), *Instructor in Health, Physical Education, and Recreation*

B.S., 1942, M.Ed., 1950, Mississippi State University.

HERMAN F. PATTERSON (1955), *Associate Professor of Secretarial Science and Office Management*

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CARL LOFSTROM PAUL (1965), *Instructor in History*

B.S., 1952, M.A., 1952, University of Houston.

VIRGINIA RUTH PEARCE (1965), *Instructor in English*

B.A., 1959, Union University; M.A., 1963, University of Mississippi.

C. EDWIN PEARSON (1966), *Professor of Distributive Education*

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BINFORD H. PEEPLES (1957), *Professor of Secretarial Science and Office Management*

B.S., 1949, Mississippi State University; M.S., 1952, Florida State University; M.S., 1961, University of Mississippi; Ed.D., 1964, University of Kentucky.

CARROLL L. PELL (1961), *Professor of French*

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B.S., 1933, Berry College; B.A., 1934, M.A., 1939, Florida Southern College; M.A., 1947, Teachers College, Columbia University; Ed.D., 1949, Teachers College, Columbia University.

ALFRED EUGENE PERRY (1965), *Assistant Professor of Biology*

B.A., 1953, M.A., 1958, Walla Walla College; Ph.D., 1965, Oklahoma State University.

JOHN RICHARD PETRY (1967), *Assistant Professor of Education*

B.A., 1948, M.S., 1953, Hardin-Simmons University; B.D., 1953, Southwestern Baptist Theological Seminary.

DAVID PETTY (1967), *Instructor in English*

B.A., 1963, Western Michigan University; M.A., 1967, University of Toledo.

HENRY HALL PEYTON (1967), *Associate Professor of English*

B.A., 1950, M.A., 1953, Baylor University; Ph.D., 1968, Brown University.

ELIZABETH CROW PHILLIPS (1953), *Professor of English*

B.A., 1928, Maryville College; M.A., 1949, Ph.D., 1953, University of Tennessee.

MILTON W. PHILLIPS, JR. (1966), *Assistant Professor of Education*

B.S., 1950, M.A., 1964, Memphis State University; Ed.D., 1967, University of Tennessee.

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B.S.B.A., 1948, Washington University; M.B.A., 1965, Memphis State University.

GERALD SWETNAM PIERCE (1964), *Associate Professor of History*

A.B., 1955, Harvard University; M.A., 1956, Ph.D., 1963, University of Mississippi.

JOSEPH NEWTON PINSON, JR. (1965), *Instructor in Biology*

B.S., 1962, Furman University; M.A., 1965, Vanderbilt University.

MARY ELLEN PITTS (1965), *Instructor in English*

B.S., 1960, Florence State College; M.A., 1962, University of Florida.

JANIE G. POODRY (1963), *Instructor in Art*

B.S., 1946, M.A., 1948, Texas Woman's University.

MEREDITH POOLE (1955), *Assistant Professor of Mathematics*

B.A., 1950, M.A., 1955, University of Mississippi.

JOSEPH ANTHONY PORTERA (1966), *Instructor in Sociology*

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MARTHA ANN POWELL (1966), *Instructor in Biology*

B.S., 1963, M.S., 1966, Memphis State University.

MERRILL MOSELEY POWELL (1966), *Assistant Professor of Education*

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ROBERT J. PRENDEVILLE (1959), *Associate Professor of Speech and Drama*

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THOMAS B. PRESTON (1967), *Associate Professor of Law*

B.S., 1953, Oklahoma State University; LL.B., 1959, Oklahoma University.

BEN FRANCIS PREWITT (1959), *Assistant Professor of Mathematics*

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FRANKLIN BLAINE RAINES (1966), *Assistant Professor of Education*

B.S., 1954, Lambuth College; M.A., 1957, Memphis State University.

NOEL GEORGE RAPP (1954), *Associate Professor of Speech and Drama*

B.A., 1941, Kent State University; Ph.D., 1955, Purdue University.

\*BASIL RATIU (1960), *Associate Professor of French*

A.A., 1947, A.B., 1947, University of Chicago; A.M., 1949, Indiana University; Ph.D., 1960, Columbia University.

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LETICIA GAYLE RAYBURN (1966), *Associate Professor of Accountancy*

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L. GRANT REESE (1967), *Professor of Spanish*

B.S., 1955, M.S., 1956, Utah State University; Ph.D., 1962, University of Washington.

HENRY L. REEVES (1953), *Assistant Professor of Mathematics*

B.S., 1947, University of Alabama; M.A., 1951, George Peabody College.

JOHN JOSEPH REID (1966), *Associate Professor of Economics*

B.A., 1955, University of Connecticut; Ph.D., 1962, University of Virginia.

CHARLES E. REIGEL (1966), *Professor of Business Education*

B.S., 1949, M.Ed., 1950, University of Pittsburgh; Ed.D., 1960, University of Cincinnati.

JAMES WILLIAM RHEA (1967), *Instructor in Speech and Drama*

B.A., 1965, University of Nebraska; M.A., 1967, University of Kansas.

JOHN W. RICHARDSON (1959), *Professor of Education, Dean of The Graduate School*

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JAMES WILLIAM RICHENS (1966), *Instructor in Music*

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JOSEPH HOWARD RIGGS (1955), *Professor of Speech and Drama*

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JOSEPH RAYMOND RILEY (1954), *Associate Professor of English*

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THOMAS BEEBE RIPPY (1966), *Assistant Professor of Political Science*

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ELMA NEAL ROANE (1946), *Associate Professor of Health, Physical Education, and Recreation*

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CHARLES NELSON ROBINSON (1961), *Professor of Chemistry*

B.S., 1949, Maryville College; M.S., 1951, Ph.D., 1953, University of Tennessee.

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MARY MARGARET ROSS (1965), *Instructor in Art*

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B.A., 1965, Union University; M.A., 1967, University of Oklahoma.

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HEBER ELIOT RUMBLE (1946), *Professor of Education*

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PRISCILLA RUSHTON (1967), *Assistant Professor of Biology*

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B.S., 1936, Massachusetts State Teachers College; M.A., 1946, Columbia University; Ed.D., 1964, Syracuse University.

- FLORENCE PETERS SCHENKER (1965), *Instructor in English*  
B.S., 1958, M.A., 1965, Memphis State University.
- FRANK B. SCHIRMER, JR. (1959), *Professor of Chemistry*  
B.S., 1934, Clemson University; Ph.D., 1939, Cornell University.
- EUGEN SCHOENFELD (1965), *Assistant Professor of Sociology*  
B.A., 1951, M.A., 1961, Washington University; Ph.D., 1967, Southern Illinois University.
- STANLEY RAY SCHULTZ (1966), *Professor of Economics*  
B.A., 1951, Ohio Wesleyan University; M.S., 1957, Ph.D., 1960, The Ohio State University.
- JUDITH SCHULZ (1965), *Instructor in Speech and Drama*  
B.S., 1961, M.A., 1964, North Texas State University.
- JOHN EDWARD SCHWAIGER (1956), *Instructor in Chemistry*  
B.S., 1940, M.A., 1960, Memphis State University.
- BLANCHE D. SCHWARTZ (1965), *Associate Professor of Art*  
B.E., 1944, Moorhead State College; M.A., 1948, Northwestern University; Ed.D., 1964, Indiana University.
- ROBERT V. SCHWARTZ (1966), *Captain, United States Air Force, Assistant Professor of Aerospace Studies*  
B.A., 1959, DePaul University.
- E. B. SCOTT, JR. (1955), *Associate Professor of Health, Physical Education, and Recreation*  
B.A., 1947, M.A., 1948, Colorado State College of Education; H.S.D., 1953, P.E.D., 1954, Indiana University.
- LESLIE S. SCRUGGS, JR. (1965), *Assistant Professor of Economics*  
B.B.A., 1963, Memphis State University; M.B.A., 1964, University of Chicago.
- AARON PRESLEY SEAMSTER (1967), *Professor of Biology, Assistant Provost of the University*  
B.S., 1937, M.S., 1938, Oklahoma State University; Ph.D., 1948, University of Notre Dame.
- PRADIP KUMAR SEN GUPTA (1966), *Assistant Professor of Geology*  
B.Se., 1956, University of Calcutta; M.Se., 1958, Jadavpur University; M.Tech., 1960, Indian Institute of Technology; Ph.D., 1964, Washington University.
- WILLIAM RODRICK SEWELL (1966), *Assistant Professor of Psychology*  
B.S., 1961, M.A., 1963, Memphis State University; Ph.D., 1967, University of Alabama.
- GEORGE WAYNE SHAMO (1965), *Assistant Professor of Speech and Drama*  
B.S., 1962, Brigham Young University; M.S., 1963, Ph.D., 1967, Southern Illinois University.

WILLIAM H. SHAW (1965), *Captain, United States Air Force, Assistant Professor of Aerospace Studies*  
B.S., 1955, Memphis State University.

THOMAS DEWEY SHOCKLEY, JR. (1967), *Professor of Engineering*  
B.S.E.E., 1950, M.S.E.E., 1952, Louisiana State University; Ph.D., 1963, Georgia Institute of Technology.

WADE HERBERT SIDES, JR. (1963), *Professor of Law*  
B.S., 1952, Memphis State University; LL.B., 1955, Vanderbilt University; LL.M., 1956, Yale University.

BILL AL SIMCO (1966), *Assistant Professor of Biology*  
B.S., 1960, College of the Ozarks; M.A., 1962, Ph.D., 1966, University of Kansas.

NANCY DAVIS SIMCO (1966), *Instructor in Philosophy*  
B.A., 1962, M.A., 1965, University of Kansas.

PAUL RAYMOND SIMONTON (1955), *Associate Professor of Biology*  
B.S., 1955, M.A., 1961, Memphis State University.

LINDA KAY SIMPSON (1967), *Instructor in Health, Physical Education, and Recreation*  
B.S., 1963, Alabama College; M.S., 1967, Indiana University.

BURLA JEAN SIMS (1967), *Instructor in Mathematics*  
B.S., 1961, Arkansas Polytechnic College; M.A., 1966, University of Arkansas.

L. ARNOLD SINIARD (1964), *Instructor in Geography*  
B.S., 1963, M.A., 1964, Memphis State University.

PAUL HARDEMAN SISCO (1947), *Professor of Geography*  
B.S., 1934, Memphis State University; M.A., 1947, George Peabody College; Ph.D., 1954, University of Chicago.

SUSAN S. SISSMAN (1967), *Instructor in English*  
B.A., 1966, University of Michigan; M.A., 1967, University of Chicago.

CARL DAVID SLATER (1967), *Associate Professor of Chemistry*  
B.S., 1955, West Virginia University; Ph.D., 1960, The Ohio State University.

JOHANNES SMIT (1960), *Associate Professor of Music*  
B.S., 1948, M.S., 1949, Juilliard School of Music; Ph.D., 1953, Eastman School of Music, University of Rochester.

A. EUGENE SMITH (1960), *Assistant Professor of Health, Physical Education, and Recreation*  
B.S., 1949, Sterling College; M.S., 1954, Indiana University.

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B.A., 1933, M.A., 1934, Vanderbilt University; Ph.D., 1954, George Peabody College.

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B.A., 1962, Elmira College; M.S., 1964, Johns Hopkins University.



OMAR EWING SMITH (1961), *Associate Professor of Biology*  
B.S., 1954, Memphis State University; M.S., 1958, Ph.D., 1961, Iowa State University.

SHERREL C. SMITH (1966), *Assistant Professor of Chemistry*  
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WALTER RHEA SMITH (1951), *Professor of English, Dean of The College of Arts and Sciences*  
B.A., 1939, Lambuth College; M.A., 1940, Southern Methodist University; Ph.D., 1951, University of California.

WILL DUNN SMITH (1960), *Professor of Education*  
B.A., 1938, M.A., 1939, Vanderbilt University; Ph.D., 1952, George Peabody College.

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B.S., 1961, M.Ed., 1966, Memphis State University.

\*ROBERT VICTOR SMYTHE (1963), *Instructor in German*  
B.A., 1962, Memphis State University; M.A., 1963, University of Texas.

ROBERT ANDREW SNYDER (1966), *Professor of Music*  
B.S., 1950, M.S., 1951, University of Illinois; D.M., 1958, Indiana University.

JOHN A. SOBOL (1949), *Associate Professor of Geography*  
B.S., 1942, Massachusetts State Teachers College; M.A., 1949, Clark University; Ph.D., 1961, University of Michigan.

WILLIAM S. SOLMSON (1967), *Instructor in Business Law*  
B.S., 1964, Washington and Lee University; LL.B., 1967, Vanderbilt University.

AUGUSTUS SORDINAS (1967), *Assistant Professor of Anthropology*  
B.S., 1957, Georgetown University; M.A., 1962, Harvard University.

HARRIS MCLEAN SORRELLE (1962), *Associate Professor of Art*  
B.S., 1957, Memphis State University; M.F.A., 1959, University of Georgia.

JULIA B. SOUTHALL (1967), *Instructor in Speech and Hearing*  
B.A., 1963, Mary Washington College of University of Virginia; M.Ed., 1964, University of Virginia.

JAMES IRA SPARKS (1966), *Instructor in Mathematics*  
B.S., 1964, Arkansas Polytechnic College; M.S., 1966, University of Arkansas.

WILLIAM H. SPELL, JR. (1962), *Associate Professor of Chemistry*  
B.S., 1951, Memphis State University; M.S., 1953, University of Georgia; Ph.D., 1961, University of Arkansas.

ELIZABETH SUPPLEE SPENCER (1956), *Associate Professor of Journalism*  
B.A., 1937, Cornell University; B.J., 1940, M.A., 1941, University of Missouri.

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- JESSE WATSON SPICELAND (1949), *Professor of Accountancy*  
B.S., 1947, Southern Illinois University; M.S.B.A., 1948, Washington University; C.P.A., 1951, Tennessee.
- SILVIO JOSEPH SPIGOLON (1964), *Professor of Engineering*  
B.S.C.E., 1951, M.S., 1956, University of Mississippi; Ph.D., 1963, University of Illinois.
- CHARLES ROBERT SPINDLER (1950), *Professor of Marketing*  
B.S., 1939, Northeast Missouri State Teachers College; M.A., 1942, University of Iowa.
- JULIE WORTH SPRUNT (1957), *Assistant Professor of Psychology*  
B.A., 1945, Mary Baldwin College; M.A., 1947, University of Virginia.
- LOUIS CHARLES STAGG (1962), *Assistant Professor of English*  
B.A., 1955, Louisiana College; M.A., 1957, Ph.D., 1963, University of Arkansas.
- DIFEEE WILLIAM STANDARD (1962), *Assistant Professor of History*  
A.B., 1950, M.A., 1952, Emory University.
- DALE W. STEEN (1965), *Instructor in English*  
B.A., 1958, Coe College; M.A., 1963, University of Iowa.
- PHYLLIS RUTH STEEN (1965), *Instructor in Music*  
B.M.E., 1947, Drake University.
- ROBERT LELAND STEERS (1965), *Assistant Professor of Political Science*  
B.A., 1949, Marietta College.
- RICHARD I. STEFF (1964), *Instructor in Music*  
B.S., 1959, State University of New York; M.M., 1960, Eastman School of Music.
- JANE STEGEMANN (1966), *Associate Professor of English*  
B.A., 1950, M.A., 1951, Ph.D., 1961, University of Pennsylvania.
- HAROLD WILLIAM STEPHENS (1967), *Professor of Mathematics*  
B.S., 1941, New Jersey State College; M.A., 1944, Ed.D., 1964, Columbia University.
- BOB FRANKLIN STEPHENSON (1962), *Instructor in Health, Physical Education, and Recreation*  
B.S., 1956, M.A., 1958, Memphis State University.
- ROBERT S. STERNBERG (1967), *Instructor in English*  
B.A., 1964, Tulane University; M.A., 1967, University of Texas.
- VAUGHN ELDEN STIMBERT (1967), *Assistant Professor of Psychology*  
B.S., 1956, M.A., 1963, Memphis State University; Ph.D., 1967, Florida State University.
- JANE BASKIN STONE (1966), *Instructor in English*  
B.A., 1965, Southwestern at Memphis; M.A., 1966, Emory University.

- REBECCA ANNE STOUT (1966), *Instructor in English*  
B.A., 1965, Guilford College; M.A., 1966, University of North Carolina.
- CALVIN MOORMAN STREET (1939), *Professor of Education*  
B.S., 1939, Memphis State University; M.S., 1946, Ed.D., 1953, University of Tennessee.
- FRANCES LOUISE STREET (1957), *Assistant Professor of Mathematics*  
B.S., 1940, Memphis State University; M.S., 1947, University of Tennessee.
- MIRIAM DECOSTA SUGARMON (1966), *Assistant Professor of Spanish*  
B.A., 1956, Wellesley College; M.A., 1960, Ph.D., 1967, Johns Hopkins University.
- HARRY HARMON SUMMER (1961), *Professor of Marketing*  
B.B.A., 1958, Memphis State University; M.S., 1961, Ph.D., 1965, University of Illinois.
- WILLIAM L. SZANYI (1967), *Major, United States Air Force, Assistant Professor of Aerospace Studies*  
B.S., 1951, George Washington University.
- KAORU PETER TAKAYAMA (1967), *Assistant Professor of Sociology*  
B.A., 1954, Tokyo Kyoiku University; M.A., 1961, Fordham University.
- GEORGE WILLIAM TATE, JR. (1967), *Assistant Professor of Biology*  
B.S., 1962, Mississippi College; M.S., 1964, Ph.D., 1967, Louisiana State University.
- ALFRED HEBER TAYLOR (1967), *Associate Professor of Journalism*  
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- CLIFTON TAYLOR (1967), *Instructor in German*  
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- HERMAN EUGENE TAYLOR (1956), *Associate Professor of Management*  
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- LUCILLE BUTLER TAYLOR (1965), *Associate Professor of Education*  
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- MINAPERLE TAYLOR, *Adjunct Professor of Voice*  
B.A., 1923, M.M., 1925, Chicago Musical College.
- CHARLES E. TEMPLETON (1957), *Assistant Professor of Accountancy*  
B.S., 1942, Mississippi State University; M.A., 1962, Memphis State University; C.P.A., 1954, Tennessee.
- JOHN B. THOMAS (1965), *Assistant Professor of Journalism*  
B.S.B.A., 1955, University of Missouri; M.S., 1957, Oklahoma State University.

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B.S., 1956, M.S., 1957, Oklahoma State University.

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B.S., 1961, Longwood College; M.S., 1962, University of Tennessee.

ALICIA CATHERINE TILLEY (1967), *Assistant Professor of Education*  
B.A., 1941, Southeastern Louisiana College; M.Ed., 1955, University of Texas; Ed.D., 1968, University of Illinois.

RODNEY TILLMAN (1967), *Professor of Education*  
B.A., 1943, Henderson State Teachers College; M.A., 1949, Ed.D., 1955, Teachers College, Columbia University.

JAMES MCNELLY TODD (1966), *Associate Professor of Management*  
B.S., 1956, Trinity University; M.B.A., 1957, Ph.D., 1966, University of Texas.

WAYLAND A. TONNING (1956), *Professor of Marketing*  
B.S., 1953, M.S., 1954, Ph.D., 1959, University of Illinois.

SYLVIA L. TORBET (1963), *Assistant Professor of Education*  
B.S., 1953, M.Ed., 1955, Louisiana State University; Ed.S., 1963, George Peabody College.

JACK A. TOWNES, JR. (1967), *Assistant Professor of Finance*  
B.B.A., 1965, M.B.A., 1966, University of Mississippi.

MALRA CLIFFT TREECE (1957), *Assistant Professor of Secretarial Science and Office Management*

B.S., 1947, Arkansas State University; M.A., 1956, Memphis State University.

AGNES ANNE TROTTER (1964), *Assistant Professor of History*

B.A., 1960, University of South Carolina; M.A., 1963, Ph.D., 1965, Duke University.

BOBBY JOE TUCKER (1966), *Instructor in Journalism*

B.S., 1962; Arkansas State University; M.A., 1966, University of Mississippi.

CYNTHIA GRANT TUCKER (1967), *Assistant Professor of English*

B.A., 1963, Denison University; Ph.D., 1967, University of Iowa.

DAVID MILTON TUCKER (1965), *Assistant Professor of History*

B.A., 1959, College of the Ozarks; M.A., 1961, Oklahoma State University; Ph.D., 1965, University of Iowa.

ELIJAH VANCE TURMAN (1965), *Instructor in Health, Physical Education, and Recreation*

B.S.Ed., 1960, University of Tennessee at Martin; M.A.Ed., 1962, Morehead State University.

ROBERT GILFORD TVEDT (1966), *Instructor in Mathematics*

B.S., 1954, Purdue University.

JOSEF MARIA TYDERLE (1967), *Assistant Professor of German*

B.A., 1962, M.A., 1966, University of Houston.

ANTONIO SERAFIM VASCONCELLOS (1966), *Assistant Professor of Economics*

B.A., 1950, University of California; Ph.D., 1966, Tulane University.

BILLY JOE VAUGHAN (1966), *Instructor in Technology*

B.S., 1957, M.A., 1958, Memphis State University.

MAURICE F. VAUGHAN (1966), *Major, United States Air Force, Assistant Professor of Aerospace Studies*

B.S., 1952, East Texas State College.

PHILIP HUGHES VAUGHAN (1965), *Instructor in History*

B.S., 1960, M.A., 1961, Memphis State University.

ROBERT N. VIDULICH (1966), *Professor of Psychology*

B.A., 1954, Hartwick College; M.A., 1956, Ph.D., 1958, Michigan State University.

FESTUS JUSTIN VISER (1965), *Professor of Economics*

B.S., 1942, Memphis State University; M.S., 1949, M.B.A., 1952, Ph.D., 1958, New York University.

WALTER WILSON WADE (1962), *Professor of Music*

B.S., 1948, East Tennessee State University; M.Mus., 1950, Ph.D., 1958, Northwestern University.

DAVID TUTHERLY WALKER (1955), *Professor of Mathematics*

B.S., 1949, Wofford College; M.S., 1951, Ph.D., 1955, University of Georgia.

- LAURENCE GRAVES WALKER (1966), *Assistant Professor of Geology*  
B.S., 1960, University of Texas; M.A., 1962, University of California; Ph.D., 1967, Harvard University.
- JEANNETTE POOLE WARD (1967), *Assistant Professor of Psychology*  
A.B., 1963, Birmingham-Southern College; Ph.D., 1967, Vanderbilt University.
- RICHARD A. WARD (1966), *Assistant Professor of Art*  
B.S., 1958, Memphis State University; M.A., 1959, George Peabody College.
- WYLIE WYATT WASHBURN (1967), *Instructor in Mathematics*  
B.S., 1965, Arkansas State Teachers College; M.S., 1967, University of Arkansas.
- ROY E. WATKINS (1957), *Professor of Classical Languages*  
B.A., 1933, Luther College; M.A., (Classics), 1934; M.A., (German), 1952; Ph.D., (Classics), 1940, University of Iowa.
- THAYER HOWARD WATKINS (1966), *Associate Professor of Economics*  
B.S., 1961, Ph.D., 1965, University of Colorado.
- \*ROBERT FRANCIS WATSON (1963), *Associate Professor of Chemistry*  
B.A., 1958, College of Wooster; Ph.D., 1963, University of Tennessee.
- JAMES HAROLD WEATHERLY (1965), *Assistant Professor of Health, Physical Education, and Recreation*  
B.S., 1957, M.Ed., 1960, Mississippi College.
- MARY JOAN WEATHERLY (1965), *Instructor in English*  
B.A., 1957, M.A., 1960, Mississippi College.
- DONALD ROGER WELLS (1967), *Associate Professor of Economics*  
A.B., 1954, University of California at Los Angeles; M.B.A., 1961, Ph.D., 1965, University of Southern California.
- GEORGE ALLEN WESTLAND (1957), *Assistant Professor of Journalism*  
B.J., 1949, M.A., 1957, University of Missouri.
- MARY ALMA WHITAKER (1947), *Assistant Professor of Home Economics*  
B.S., 1929, Memphis State University; M.S., 1941, University of Tennessee.
- BRADFORD WHITE (1948), *Professor of Speech and Drama*  
B.A., 1934, University of North Carolina; M.F.A., 1939, Yale University.
- GERRY C. WHITE (1963), *Assistant Professor of Technology*  
B.S.E.E., 1960, Christian Brothers College; M.S.E.E., 1963, University of Tennessee.
- HELEN WHITE (1958), *Associate Professor of English*  
B.A., 1935, Southwest Texas State Teachers College; M.A., 1950, Ph.D., 1958, George Peabody College.

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\*On leave of absence, 1967-68



- LONNIE J. WHITE (1961), *Professor of History*  
B.A., 1950, West Texas State College; M.A., 1955, Texas Technological College; Ph.D., 1961, University of Texas.
- MARTHA ANNA WHITE (1963), *Instructor in English*  
B.A., 1962, M.A., 1963, University of Arkansas.
- DON WHITLOCK (1967), *Instructor in Technology*  
B.S., 1954, Memphis State University.
- WALTER E. WILHELM (1964), *Assistant Professor of Biology*  
A.B., 1955, Harris Teachers College; M.S., 1959, University of Illinois; Ph.D., 1964, Southern Illinois University.
- HARRY LEE WILKERSON (1966), *Instructor in English*  
B.A., 1958, University of Colorado; M.A., 1965, University of Michigan.
- DANIEL RAY WILLBANKS (1965), *Instructor in English*  
B.A., 1963, M.A., 1964, University of Alabama.
- HERBERT LEE WILLIAMS (1956), *Professor of Journalism*  
B.A., 1940, Murray State University; M.A., 1941, University of Mississippi; Ph.D., 1955, University of Missouri.
- JAMES CALDWELL WILLIAMS (1967), *Assistant Professor of Chemistry*  
B.S., 1955, Ouachita College; Ph.D., 1964, University of Missouri.
- RALPH WHITSON WILLIAMS (1966), *Associate Professor of Management*  
B.S., 1958, Purdue University; M.B.A., 1961, University of Washington; D.B.A., 1966, University of Oregon.
- ROY H. WILLIAMS (1967), *Associate Professor of Management*  
B.S., 1955, Delta State College; M.S., 1962, University of Mississippi; Ph.D., 1967, University of Alabama.
- WILLIAM ROBERT WILLIAMS (1961), *Assistant Professor of English*  
B.A., 1957, Lambuth College; M.A., 1961, Memphis State University.
- MAJOR LOYCE WILSON (1964), *Associate Professor of History*  
B.A., 1950, Vanderbilt University; M.A., 1953, University of Arkansas; Ph.D., 1964, University of Kansas.
- ANNE MCGEHEE WINE (1966), *Instructor in Spanish*  
B.A., 1954, Southwestern at Memphis; M.A., 1956, University of Iowa.
- ARTHUR PETER WINFREY, III (1966), *Instructor in Management*  
B.S., 1955, U. S. Naval Academy.
- JOHN ALLEN WINFREY (1958), *Assistant Professor of Mathematics*  
B.S., 1926, U.S. Naval Academy; M.S., 1958, Memphis State University.
- BYRON HOOPER WISE (1964), *Assistant Professor of Biology*  
B.S., 1950, M.S., 1953, Ph.D., 1962, University of Florida.
- CHARLES NEAL WISE (1966), *Assistant Professor of Speech and Drama*  
B.S., 1960, Bradley University; Ph.D., 1966, University of Oklahoma.

MARY WITT (1965), *Associate Professor of Education*

B.S., 1938, Memphis State University; M.A., 1942, Ed.D., 1954, George Peabody College.

SEOK PIN WONG (1965), *Assistant Professor of Mathematics*

M.S., 1962, University of Delaware; Ph.D., 1967, University of Illinois.

\*RUTH G. WOODBURY (1953), *Instructor in History*

B.A., 1940, M.A., 1947, University of Mississippi.

LILY FRANCES WOODWARD (1967), *Instructor in Speech and Hearing*

B.S., 1953, M.A., 1955, University of Southern Mississippi.

ALBERT HAINES WOOLLETT (1963), *Assistant Professor of Physics*

B.A., 1949, M.S., 1950, University of Mississippi; Ph.D., 1956, University of Oklahoma.

ROSESTELLE BACH WOOLNER (1965), *Assistant Professor of Education*

B.S., 1953, M.A., 1960, Memphis State University; Ed.D., 1966, University of Tennessee.

LARRY WRIGHT (1967), *Instructor in Health, Physical Education, and Recreation*

B.S., 1958, Memphis State University.

TZE SUN WU (1964), *Professor of Engineering*

B.S., 1941, National Chiao-Tung University; M.S., 1949, University of Washington; Ph.D., 1952, University of Illinois.

LAWRENCE WYNN (1950), *Professor of English*

B.A., 1936, Emory University; M.A., 1940, Duke University; M.A., 1947, Ph.D., 1951, Princeton University.

ARTHUR L. YEHLE (1967), *Assistant Professor of Psychology*

B.E.E., 1948, Cornell University; M.S., 1966, Ph.D., 1967, University of Miami.

DAVID YELLIN (1964), *Associate Professor of Speech and Drama*

B.A., 1937, The Pennsylvania State University; M.A., 1963, Teachers College, Columbia University.

WILLIAM WARREN YOUHASS (1967), *Instructor in Music*

B.Mus., 1965, Ithaca College; M.Mus., 1967, University of Illinois.

LEE STRICKLEN YOUNG (1962), *Instructor in English*

B.A., 1952, Southern State College; M.A., 1956, University of Arkansas.

KENNETH DAVIS YOUNT (1966), *Instructor in Music*

B.M., 1964, Stetson University.

DANIEL LEONARD ZIEMBO (1965), *Instructor in Art*

B.F.A., 1963, M.F.A., 1965, University of Illinois.

WILLIAM HENRY ZUBER, JR. (1966), *Assistant Professor of Chemistry*

B.S., 1960, Memphis State University; Ph.D., 1964, University of Kentucky.

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\*On leave of absence, 1967-68

## THE FACULTY COUNCIL

PROFESSOR LAWRENCE WYNN, *Chairman*

PROFESSOR HARRY HARMON SUMMER, *Vice-Chairman*

PROFESSOR LEA GIBBS PARK, *Secretary*

### *Members whose terms expire May, 1968:*

PROFESSORS BARTON, BOOM, MATTHEWS, AND SMITH

ASSOCIATE PROFESSORS JOHNSON AND MCGOWAN

ASSISTANT PROFESSOR HIRSCHMANN

### *Members whose terms expire May, 1969:*

PROFESSORS MCBRIDE, SUMMER, AND WYNN

ASSOCIATE PROFESSORS DAMERON, FEISAL, AND SOBOL

ASSISTANT PROFESSOR PRICE

### *Members whose terms expire May, 1970:*

PROFESSORS GOVAN, HOWELL, AND ROBINSON

ASSOCIATE PROFESSORS DANLEY, HOUSE, AND PARK

ASSISTANT PROFESSOR DOWD

## UNIVERSITY COMMITTEES, 1968-69

The President appoints standing University committees and serves as a member of all committees. Appointments extend from September through August of the academic year.

*Academic Discipline.* Professor Matthews, chairman; Dean Robison, secretary; Professor Kelly; Associate Professors Brooks, Gillaspie and Daniel Lynch.

*Academic Freedom and Responsibility.* Associate Professor McGowan, chairman; Professors Ball and Barton; Associate Professors Feisal and Orr; Dr. Aaron Seamster, *ex officio*.

*Athletic.* Dean Robison, chairman; Professors Coltharp, Haynes and Larrabee; Associate Professors Corbet, Dameron and Danley; Mr. Newport; Student Government Association representative.

*Buildings and Grounds.* Professor Street, chairman; Associate Professors Alexander and McGowan; Assistant Professor Peter Thomas; Mr. Herzog; Mr. Merrill; Student Government Association representative.

*Discipline (Social).* Dean Robison, chairman; Deans Parrish and Rawls; Professor Hatley; Assistant Professors Chapman and Henderson; a man student; and a woman student.

*English Proficiency.* Assistant Professor Cotham, chairman; Professors Osborne and Viser; Associate Professors DeBoo and Riley; Assistant Professor Lamar Thompson.

*Entrance and Credits.* Dean Clark, chairman; Professors Coltharp, Alfred Smith and Stephens; Associate Professors Brotherton and Patterson; Assistant Professor Dowd.

*Extension.* Dr. Seamster, chairman; Professors Crader, Sam Johnson, Kellogg, Markle and Walter Smith; Associate Professor Brotherton.

*Library.* Professor Boom, chairman; Professors Bannon, Cariani, Marshall, Permenter, Viser and Wynn; Mr. E. L. Brown.

*Pre-Law Advisory.* Professor Lonnie J. White, chairman; Dean Cox; Professor Curbo; Associate Professors Beifuss and Sawyer.

*Pre-Medical Advisory.* Professor Holmes, chairman; Associate Professors Bancroft, Simonton and Spell; Assistant Professor Cotham.

*Public Programs.* Dean Walter Smith, chairman; Dean Rawls; Professors Ausprich, Snyder and Wade; Associate Professors Dailey, Hermann and Park; Mr. Robbins; presidents of Omicron Delta Kappa and Tassel.

*Religious Activities.* Professor Spindler, chairman; Professor Barton; Assistant Professors Abbett and Moore; Mr. David Collins; Student Government Association representative.

*Scholarships and Loans.* Professor Tonning, chairman; Deans Parrish and Rawls; Associate Professors Deininger and Omar Smith; Assistant Professor Powell; Mr. Bannister; Mr. Bass.

*Student Elections.* Dean Robison, chairman; Dean Rawls; Associate Professors House and Sobol; Assistant Professor McDaniel; Mr. Bond; Mr. David Collins.

*Student Publications.* Professor Williams, chairman; Professors Phillips, Tillman and J. T. Thompson; Associate Professor Crouse; Mr. David Collins; Mr. Haston; president of Student Government Association.

*Teacher Education Policy.* Dean Johnson, chairman; Professors Claypool, Coltharp, Hatley, Nothorn, Rumble and Sisco; Associate Professor Fitzpatrick; Mrs. Richardson, *ex officio*.



## CAMPUS SCHOOL FACULTY

GRADY G. WOODY (1958), *Principal*

B.S., 1951, Union University; M.S., 1958, Memphis State University.

MARY ELIZABETH ANDERSON (1951), *Supervising Teacher, Third Grade*

B.S., 1947, Memphis State University; M.A., 1951, George Peabody College.

DOROTHY SIMMONS DAUGHERTY (1958), *Supervising Teacher, First Grade*

B.S., 1952, M.A., 1956, Memphis State University.

DONNA ELIZABETH EDDINS (1962), *Director of Kindergarten*

B.S., 1962, M.A., 1963, Memphis State University.

EVELYN MCKINSTRY FORD (1949), *Supervising Teacher, Fifth Grade*

B.A., 1930, University of Mississippi; M.A., 1952, Memphis State University.

SARAH LEE FOSTER (1955), *Supervising Teacher, Third Grade*

B.S., 1952, University of Tennessee; M.A., 1957, Memphis State University.

ELBA GANDY (1946), *Supervising Teacher, Music*

B.M.E., 1944, Louisiana State University; M.M., 1946, Northwestern University.

MILDRED MAY GRAGG (1949), *Supervising Teacher, Fifth Grade*

B.S., 1941, Memphis State University; M.A., 1948, George Peabody College.

ANN AUSBAND HARMON (1966), *Supervising Teacher, Art*

B.A., 1953, Asbury College.

FRANCES HICKS (1965), *Supervising Teacher, Fourth Grade*

B.S., 1953, Oglethorpe College; M.S., 1956, University of Georgia.

ANNETTA SUE HUCKABEE (1966), *Supervising Teacher, Perceptually Handicapped*

B.S., 1963, M.A., 1964, Memphis State University.

GEARY KRILL IRWIN (1959), *Supervising Teacher, Nursery School*

B.A., 1945, University of California.

FAYE J. LANE (1966), *Supervising Teacher, First Grade*

B.A., 1949, Harding College.

GERLENE STUBBS LIFER (1956), *Supervising Teacher, Second Grade*

B.S.Ed., 1955, M.A., 1958, Memphis State University.

DIANE LOWE (1965), *Supervising Teacher, Second Grade*

B.S., 1964, M.A., 1965, Memphis State University.

JOHN ETHEL MEASELLS (1946), *Librarian*

B.S., 1931, Memphis State University; M.A., 1946, B.S. in L.S., 1951, George Peabody College.

- AGNES ANN MOORE (1957), *Supervising Teacher, Fifth Grade*  
B.S., 1954, M.A., 1957, Memphis State University.
- KITTE DAVIS NOWLIN (1963), *Supervising Teacher, Fifth Grade*  
B.S., 1952, M.A., 1963, Memphis State University.
- FRANCES HOLMES PETERS (1955), *Supervising Teacher, Sixth Grade*  
B.S., 1942, M.A., 1957, Memphis State University.
- BILLY E. SMITH (1964), *Supervising Teacher, Sixth Grade*  
B.S., 1949, University of Kentucky; M.A., 1958, Memphis State University.
- RUBY ETHEL SUGG (1966), *Supervising Teacher, Fourth Grade*  
B.S., 1941, M.Ed., 1958, Mississippi State University.
- WILMAH SCOTT TATOM (1962), *Supervising Teacher, Sixth Grade*  
M.S., 1960, Memphis State University.
- JULIA ETTA THOMAS (1947), *Supervising Teacher, Second Grade*  
B.S., 1947, Memphis State University; M.A., 1951, George Peabody College.
- LAURENCE LEE VAN DYKE (1967), *Supervising Teacher, Perceptually Handicapped*  
B.S., 1964, Memphis State University.
- LUCILLE WALLIS (1961), *Supervising Teacher, Second Grade*  
B.S., 1958, Memphis State University.
- ELIZABETH SHELTON WILSON (1965), *Supervising Teacher, First Grade*  
B.S., 1966, Memphis State University.

*An expanding University campus (opposite page) features modern buildings  
and the newly-formed Mall in front of the Administration Building.*





2

## Description of the University

## Historical Statement.

In 1909 The General Assembly of Tennessee enacted a General Education law which provided for the establishment and maintenance of three normal schools, one school to be located in each of the three grand divisions of the state. Memphis and Shelby County contributed \$350,000 and a site of approximately 80 acres near the eastern edge of the city. On September 15, 1912, West Tennessee State Normal School opened.

In 1925, the institution became a senior college, and the name was changed to West Tennessee State Teachers College. In 1941 the school's liberal arts curriculum was enlarged, and the name was changed to Memphis State College. The undergraduate program was reorganized into three schools in 1951, and a graduate school was added. On July 1, 1957, by action of the Tennessee legislature, the institution was designated Memphis State University.

## Organization.

Memphis State University is comprised of four undergraduate colleges, The School of Law, The Graduate School, and The Division of Continuing Studies. The undergraduate colleges are The College of Arts and Sciences, The College of Business Administration, The College of Education, and The Herff College of Engineering. The Division of Continuing Studies administers The Summer Session, The Evening Division, The Extension Division, and the Downtown Division; it also offers non-credit courses designed to provide increased opportunities for the people of this area to avail themselves of University facilities and services.

## Goals of the University.

Memphis State University offers an educational program compounded of those three elements traditionally associated with institutions of higher learning: teaching, research, and public service.

The primary purpose of the University is to provide experience through which students may attain a high degree of intellectual maturity, social stability, and professional competence. Through the variety of courses offered by the University, it is hoped the student's perspective will be so enlarged that the choices he makes in life will be cogent ones and that he will become a fully awakened and involved individual.

Research in many areas and on all levels is vital if our knowledge and comprehension are to be expanded. Because of the unexpected and invaluable results which have come from research



undertaken without any immediate goal in view, the distinctions between pure research and applied research have become blurred. From the universities, the communities of scholars, each seeking truth in his own way, have come the most significant discoveries of our age. Memphis State University is constantly seeking to increase and improve its facilities in order to make available to its faculty and students the time, tools, and atmosphere necessary for the kinds of research which the citizens of the area have every right to expect.

Teaching and research are in themselves, of course, part of the public service which the University offers; but, in addition to these, the faculty, staff, and students make other valuable contributions to the public good. Both the physical facilities and the talents of the personnel are now utilized in many ways, and the University is always receptive to suggestions as to how the services may be expanded in order to be of added value to the citizens of the metropolitan area, the state, and the surrounding region.

### Accreditation.

Memphis State University is fully accredited by The Southern Association of Colleges and Secondary Schools and is a member of The Association of American Colleges, The Tennessee College Association, The American Association of Colleges for Teacher Education, and The American Council on Education. The College of Education is accredited by The National Council for Accreditation of Teacher Education. The School of Law is on the approved list of the American Bar Association. The American Association of University Women, of which the University is a corporate member, admits women graduates of the University to national membership.

### Governing Body.

The government of Memphis State University is vested in the Tennessee State Board of Education. The Governor is an *ex officio* member of this Board, and the Commissioner of Education is its chairman. The other twelve members of the Board are appointed by the Governor, four members from each of the three grand divisions of the state. Offices of the Board are located in the Cordell Hull Building in Nashville.

The chief administrative officer of the University is the President. He is assisted and advised by members of the faculty and administrative staff organized into three official bodies: The Administrative Council, The Faculty Council, and The Graduate Council. Each college or school of the University is administered by a dean, each department by a chairman. Various activities are supervised by standing faculty committees.

### Memphis State University Foundation.

The Memphis State University Foundation, a private, non-profit general welfare corporation, was established in 1964 to promote and support the academic program of the University. It is administered by a Board of Trustees composed of eminent community leaders in business and industry, the President of the University, president and secretary of the Alumni Association, a member of the State Board of Education, three administrative officials of the University, two faculty members, and the chief officer of the Development Office, who automatically becomes the Foundation's executive vice president.

Contributions, gifts, and bequests are solicited by the Foundation for the advancement of Memphis State University as an institution of excellence. The funds of the Foundation are expended for student scholarships, departmental projects, research, visiting distinguished professors, faculty salary supplements, visiting lecturers, library and art acquisitions, and similar purposes. Contributions to the Foundation, a tax-exempt organization, are deductible for income tax purposes.

## ACADEMIC BUILDINGS

### Administration Building.

Completed in 1912, this building was the first academic structure on campus. It has been enlarged and remodeled several times and is air-conditioned. It houses most of the administrative offices of the University and contains classroom and office space for several departments in The College of Arts and Sciences. The Computer Center is located in this building.

### Manning Hall.

Built in 1930, and since extensively remodeled, this hall is named in honor of the University's first instructor in science, Priestly Hartwell Manning. It provides the Departments of Physics and Home Economics with classrooms, offices, laboratories, a science auditorium, and faculty and graduate research facilities.

### Johnson Hall.

Completed in 1958, this building honors Dr. Rayburn W. Johnson, Professor Emeritus of Geography, and his late wife, Ethel B. Johnson. Air-conditioned throughout, it contains classrooms, laboratories, offices, a map library, a conference room and an audi-

torium for the Departments of Geography and Psychology. The map library, a depository for the Army Map Service, Washington, D. C., contains over 10,000 maps. The Ethel B. Johnson Reception Room, dedicated to the use of the Faculty Wives Club, is on the ground floor.

### **Jones Hall.**

This hall, named in honor of Otis Henry Jones, University bursar from 1925-1937, was completed in 1960 and enlarged in 1964; it houses the Departments of Aerospace Studies, Art, Classical Languages, Modern Languages, and the University Post Office.

### **The College of Business Administration Building.**

An air-conditioned structure with adjoining auditorium, this building contains administrative offices, classrooms, laboratories, and offices for the Departments of Accountancy, Economics and Finance, Management, Marketing, and Secretarial Science and Office Management.

### **Industrial Technology Building.**

Constructed in 1941, and enlarged in 1946 and 1960, the Technology building provides classrooms, offices and laboratory facilities for drafting, surveying, woodworking, metal working, ceramics, and general shop practices. The University Printing Service is also located in this building.

### **Memphis State University Campus School.**

This school, operated in cooperation with the Memphis Board of Education, provides air-conditioned facilities for training student teachers and opportunities for observing good teaching procedures. In addition to regular classrooms, it features flexible spaces, learning cubicles, one-way observation glass, sound controls, connections for television broadcasts and reception, and facilities to meet the needs of modern public school teaching. These facilities are also utilized in faculty and graduate demonstration, research, and experimental projects.

### **The Field House.**

Built in 1951, and enlarged in 1958 and 1964, The Field House contains basketball courts, gymnasiums, classrooms, a stage, seats for 4,000 spectators, and offices for the Department of Health, Physical Education, and Recreation. Some athletic offices are located in this building.

### **The Buford Ellington Biological Sciences Building.**

Named in honor of the Governor of Tennessee, this air-conditioned building has classrooms, laboratories, specimen areas, research facilities, and an auditorium. It was completed in 1964.

### **The College of Education Building.**

This air-conditioned structure, completed in 1964, houses the administrative and faculty offices of The College of Education as well as general and special classrooms, laboratory and research areas (including a curriculum laboratory), and an auditorium. The Herff College of Engineering, local offices of the State Board of Education, and the University of Tennessee graduate program are located in this building.

### **The Frank G. Clement Humanities Building.**

Named after the former Governor of Tennessee, this building is located on the west side of the Mall, was completed in 1966, and houses the Departments of Sociology and Anthropology, Philosophy, Political Science, and portions of the Department of History. It is air-conditioned.

### **The J. Millard Smith Chemistry Building.**

This building is named in honor of the President Emeritus of the University and is located on the east side of the Mall, adjacent to Walker Avenue. In addition to the Department of Chemistry, it also houses a portion of the Department of Mathematics.

### **The School of Law Building.**

Completed in early 1967, this air-conditioned facility is located on Central Avenue in the newly developed north campus area. It houses offices, classrooms, and service areas for the staff and students of The School of Law. The Law Library is also a part of this building.

### **The Malcolm R. Patterson Building.**

This building, completed in 1967, is the home of the Department of English. It is named in honor of former Governor Patterson, who was Tennessee's chief executive in 1909 when the University was founded. It is on the corner of Patterson and Walker.

### **Music Building.**

Facilities in this modern, air-conditioned building include a 450-seat recital hall-auditorium with a hydraulic lift orchestra pit,



specially designed rehearsal rooms for band, chorus, opera and orchestra, a well-equipped music library, classrooms, practice rooms, staff offices, and Department of Music offices. The building is located on Central Avenue.

### **Speech and Drama Building.**

Also located on Central Avenue, next to the Music Building, this structure includes a large flexible theatre, two small experimental theatres, a speech clinic, a speech browsing library, a forensics suite, special listening rooms, classrooms, offices, and seminar rooms. Facilities are designed for the specialized use of speech and drama students.

### **The University Library.**

The University Library, named in honor of former president John Willard Brister, was built in 1927; it has been considerably enlarged, the latest addition having been completed in 1963. The collection numbers over 270,000 volumes, including all U.S. Government publications since 1956. In 1966 the Library became a U.S. Government Depository. Subscriptions and files are maintained for general and specialized periodicals.

An undergraduate library is under construction. It is located south of the existing library and will be connected to form an integral part of a library complex. The new structure, featuring a twelve-story stack tower, will be in service in 1968.

## *AUXILIARY BUILDINGS*

### **The Old Gymnasium.**

In 1961 this building was converted into studio and office space for WKNO-TV, the educational television station operated by the Memphis Community Television Foundation.

### **University Center.**

Located on the east side of the Mall, this structure was opened in 1968. It houses the University Bookstore and, in addition, provides a variety of food-service, recreational, and conference facilities.

### **University Auditorium.**

This auditorium, located in the Administration Building, seats 1,200 and has a stage fully equipped for dramatic and musical productions.



### **The Panhellenic Building.**

Erected in 1959, and enlarged in 1963, this air-conditioned building affords suites for 10 sororities and hostess, guest room, kitchen, and ballroom.

### **The Cafeteria.**

This building adjoins the old Student Center and has a seating capacity of 500. It is air-conditioned and is located directly north of the Administration Building.

### **Chucalissa Indian Village and Museum.**

This prehistoric Indian town and museum is operated by the University as a research and training facility. Excavation of the site is underway by students and staff members. Adjoining acreage serves as a biological field station. Chucalissa also provides indoor and outdoor archaeological exhibits, open to the public throughout the year. Chucalissa is located 13 miles from the main campus west of Highway 61 South at Mitchell Road.

### **Downtown Center.**

Located at 81 Madison Building, the Downtown Center offers evening classes in both degree and non-degree programs. The center is nine miles from the main University campus.

### **Kennedy Property.**

The University has acquired 129 acres of land, formerly the Kennedy Veterans' Hospital site at Park and Getwell. This land will be developed for University facilities and programs.

### **Meeman Forest Farm.**

This 623-acre land gift to the University was made by the trustees of the Edward J. Meeman Foundation. The land will be used for biological studies. The late Mr. Meeman was for 31 years editor of the *Memphis Press-Scimitar*.

### **Speech and Hearing Center.**

Located at 807 Jefferson in the Medical Center of Memphis, this facility became affiliated with the University in 1967. It serves children and adults with speech and hearing defects. The University administers and operates the Center in cooperation with the board of Memphis Speech and Hearing Center, Inc.

*UNIVERSITY HOUSING***Residence Halls.**

There are four campus residence halls for women: Mynders Hall, West Hall, Nellie Angel Smith Hall, and Rawls Hall. There are four campus residence halls for men: Hayden Hall, McCord Hall, Browning Hall, and Robison Hall.

In addition to these residence halls, Memphis State University operates the privately-owned Highland Towers and Central Towers. The Towers house men and women in air-conditioned suites. The Towers' cafeterias serve 20 meals per week, cost of which is included in total charges for each semester.

**Vets Village.**

Apartments in this group of frame buildings are open to all married students, although veterans have preference. Applications for occupancy should be made to the University Housing Office.

*Art exhibits on the patio in front of Jones Hall (opposite page) offer examples of student work in the University's Department of Art.*

3

# Admission to the University





## Admission to the University.

Inquiries about admission to any undergraduate college of the University should be addressed to the Dean of Admissions. The Admissions Office receives and processes all applications, evaluates credentials, and issues cards of admission to qualified applicants. Students may enter at the beginning of either of the regular semesters or at the beginning of either of the two terms of The Summer Session.

## Admission of Freshmen.

An applicant may qualify for admission as a freshman by meeting the following requirements:

- I. High School Graduation.
  - A. By a transcript of credits showing graduation from an approved or accredited high school based on a four-year course of study. In addition to meeting all other requirements listed in this section, graduates of high schools outside Tennessee must rank in the upper one-half of their graduating class or reside within a 150-mile radius of the University to be eligible for admission. Exceptions may be made only if the student has above average entrance examination scores and there are other factors which indicate that the applicant will be capable of doing satisfactory academic work. Students who do not present one unit of American history are required by Tennessee law to register for the course upon initial enrollment.
  - B. By High School Equivalency Diploma. Applicants 21 years of age or over may be admitted by the equivalency diploma, provided it is issued upon a minimum average GED test score of 50, with no single score below 35.
  - C. By General Education Development tests. Veterans who are not high school graduates and who have at least 12 months of military service may be admitted conditionally by GED test scores averaging 45 or more, with no single score below 35. Under certain circumstances, non-veterans under twenty-one years of age may be considered for admission with a minimum average GED score of 50 and with no single score below 35.
- II. Entrance Examination. In order to receive consideration for admission as a freshman, applicants must submit scores earned on the test administered by the American College Testing Program. Applicants who are not recent high school graduates may request an entrance examination administered by the Office of Admissions and Records.
- III. Age. An applicant must be at least 16 years of age.
- IV. Character. The applicant must submit evidence of good moral character (usually the recommendation of the high school principal). All applicants must have honorable dismissal from the last high school or college attended.
- V. Health. Each candidate must be free from communicable diseases, must show evidence of vaccination for smallpox within the last five years, and must show a satisfactory chest X-ray or tuberculin skin test within the past six months. It is strongly recommended that all students be immunized against tetanus.



## Admission of Transfer Students as Regular Undergraduates.

Admission will be granted only to a student who has honorable dismissal from an accredited institution and whose cumulative quality point average meets the following minimum standards, on a scale in which a grade of A gives four quality points:

With two semesters in residence: a quality point average of 1.5000.

With four semesters in residence: a quality point average of 1.8000.

With six semesters in residence: a quality point average of 1.9000.

With more than six semesters in residence: a quality point average of 2.000.

(For part-time students, fifteen semester hours will be the equivalent of one semester.)

In order to receive consideration for admission as a transfer student, an applicant must submit scores earned on the American College Test or the Scholastic Aptitude Test, or an examination administered by the Office of Admissions and Records. The examination requirement may be waived when an applicant has earned at least 66 acceptable hours of credit at an accredited institution with a C average on all work attempted.

A transfer student who meets these qualifications, but whose average for the last term in residence is less than 1.5000, or whose cumulative quality point average does not meet the minimum standard, or who is not in good academic standing, will be entered on scholastic probation. The probation must be removed within the first semester of residence.

A transfer student who is denied admission because he is not entitled to continue at another institution or because he does not meet the minimum quality point average requirement may have his application reconsidered after an appropriate period of time has elapsed.

A transfer student who has failed his work at another institution and is not entitled to continue there will not be admitted to the University except under unusual circumstances.

Credit toward a degree will be accepted only for courses which are equivalent to those offered at Memphis State University. After the student has been approved for admission, the Dean of Admissions will evaluate the transcript of each transfer student to show the credits acceptable to the University. The dean of the college to which the student is admitted will inform the student of the extent to which his credits will apply toward the degree sought.

All credits are transferred at their original grade; if the quality point average on such transferred credits is less than C, the cumulative quality point average must be brought up to a C by higher grades at Memphis State University before the student can

qualify for graduation. (See page 103 for the method of computing quality point averages). Every student must qualify for graduation on the basis of every course attempted, at Memphis State University and elsewhere. In no case may transferred grades be used to raise the student's quality point average on courses taken at Memphis State University; his average on all courses must be C (2.000) or better.

A student submitting advanced standing credit from an unaccredited institution will be given consideration. Each case will be considered individually, and credit may be accepted tentatively. In no case will credit be recorded until it has been validated by satisfactory work at Memphis State University for one or more semesters.

Advanced standing of not more than 72 semester hours will be accepted from a junior college. Credit earned at a junior college after a student has completed 72 semester hours of college work from any source will not be accepted.

Transfer credit from vocational schools or vocational colleges not accredited by the Tennessee State Board of Education and/or The Southern Association of Colleges and Secondary Schools (or corresponding agencies for other states and regions of the United States) will not be accepted toward a degree or toward teacher certification.

A student who has attended any accredited or approved institution of higher learning will not be permitted to enroll as a beginning freshman.

### **Admission of Transfer Students as Term Specials.**

A regularly enrolled student of another institution who desires to take only a limited number of hours during a term and who is not presently working toward a degree at Memphis State University may be admitted as a Term Special student, subject to the following provisions:

1. He must submit an application for admission and a five-dollar (\$5) application fee (unless the fee has been paid previously).
2. He must have the registrar of his college or university submit to the Dean of Admissions and Records a statement of good standing and his current classification. (Note: If the student later decides to become a permanent transfer student, transcripts of college and high school work and satisfactory entrance examination scores will have to be submitted.)

### **Admission of Transfer Students as Special Undergraduates.**

A graduate of an accredited institution who desires to take only a limited number of courses and who indicates that he is

not presently working toward a degree at Memphis State University may be admitted as a Special Undergraduate, subject to the following provisions:

1. He must submit an application for admission.
2. He must have the college or university from which he was graduated send to the Dean of Admissions a statement giving the name of the degree that he earned and the date he earned it. (Note: If the student later decides to become a permanent transfer student and works toward another degree, transcripts of all college and high school work will have to be submitted).

### Admission of Adult-Special Students.

A student who desires to take only a limited number of courses and who indicates that he is not presently working toward a degree at Memphis State University may be admitted as an Adult-Special, subject to the following provisions:

1. The applicant must hold a high school diploma or be 21 years of age or older.
2. He will be permitted to take no more than 9 semester hours per semester.
3. He will be allowed to enroll only in classes which meet after 4:00 p.m. or on Saturday.
4. He may not accumulate, in adult-special status, more than 18 semester hours of credit at Memphis State University. (After that time he must apply for regular classification if he is to continue to enroll).
5. He may at any time apply to the Dean of Admissions for reclassification as a regular student, effective at the beginning of the next regularly scheduled semester; he must follow the same procedures and meet the same standards as required for all other applicants for admission to the University. If he is admitted as a regular student, the credits which he earned as an adult-special student (up to a maximum of 18 semester hours) may be counted toward a baccalaureate degree if approved by the dean of the college from which the degree is sought.
6. A student who has been denied regular admission to Memphis State University because of low admission test scores may not apply for adult-special admission until at least 12 months after the previous application.
7. A student who has been dismissed, because of low academic standing from another institution of higher learning, may not apply for admission until at least 12 months after such dismissal.

### Procedures for Admission.

1. *Application.* A written application on a form supplied by the University is required. The application for admission form, which includes instructions for completing arrangements for entrance, must be secured from the Office of the Dean of Admissions, completed in ink or by typewriter, and returned to the Admissions Office. The completed form must include the applicant's social security number.

2. *Application Fee.* Applicants are required to submit with their application form a non-refundable fee of \$5.00.
3. *Credentials.* A student entering directly from high school should request his principal to mail to the Dean of Admissions an official transcript of his high school work. A student entering from another college or other colleges should request the registrar of each college attended to mail to the Dean of Admissions an official transcript of his college work. *In every case credentials must include a complete record of all previous secondary schools and all collegiate institutions attended, regardless of credit earned, and regardless of whether or not credit is desired.* To prevent delay in completing registration, all credentials, including the completed application form, the official transcript, and the health service record, should be on file in the Office of the Dean of Admissions at Memphis State University before the beginning of the term for which application is made. The applicant is advised to have all credentials on file one month preceding registration in order to avoid delay in processing the application. All credentials become the property of the University and cannot be returned.
4. *Entrance Examinations.* Beginning freshmen who are recent high school graduates must take the examination administered through the American College Testing Program. Information about this examination may be obtained from the high school principal and/or guidance counselors. Applicants who will have been graduated from high school at least six months prior to their proposed date of entrance may make a request to take an examination administered by the University. Transfer applicants who have earned 66 acceptable hours of credit from an accredited college or university with a 2.0 average on all work attempted are not required to submit entrance examination scores.
5. *Health Card.* Each student is required, as a condition of admission, to file with the Dean of Admissions a medical history and report of physical examination on the Health Service Record Card provided by the University.

### Former Students.

Former students who wish to return to the University must file a formal application for readmission; application forms, available from the Office of the Dean of Admissions, must be completed in ink or by typewriter and returned to the Dean of Admissions. If the student has enrolled at another college since last attending Memphis State University, he must have a transcript from the other college submitted and approved before he may re-enter.



Applications will receive favorable consideration only if the applicant is eligible for readmission under all University regulations, including the grade-point average requirements shown on page 71.

### **Credit for Service in Armed Forces.**

Veterans who have completed one year or more of full-time, extended active military service will be excused from taking the required physical education activity courses and, in addition, will be allowed six semester hours (less credit already earned) of health and physical education credit upon presentation of a copy of their discharge form (DD form 214) to the Office of the Dean of Admissions. Reservists who have served six months active duty under the provisions of the Reserve Forces Act of 1955 are not considered veterans; they may, however, be excused from taking the required physical education activity courses upon the presentation of a copy of their discharge form (DD form 214) to the chairman of the Department of Health, Physical Education, and Recreation.

The Dean of Admissions and Records should be consulted to determine whether additional credit can be given for courses offered through the United States Armed Forces Institute or other service schools. An evaluation of service credit is not made until a student applies and has been granted admission as regularly enrolled student.



*Patterson Hall (opposite page) is home of the Department of English, one of the largest departments in The College of Arts and Sciences.*

# Expenses and Financial Aid

## 4



### Expenses at University.

The matter of expense while attending the University is of importance to every student. It is difficult, however, to give specific information about yearly expenditures; expenses vary according to the nature of the curriculum, the place of residence (whether in Tennessee or in another state or country), and the student's own habits and needs. In any student body there are so many different tastes, as well as such a wide range of financial resources, that each student must determine his budget in keeping with his own needs and financial condition. It is possible to live simply, and to participate moderately in the life of the student community, on a modest budget. The best help the University authorities can offer the student in planning his budget is to inform him of certain definite expense items and to acquaint him with others for which he will in all probability have to provide.

The information in this section concerning tuition, fees, deposits, financial aid, etc., is applicable only to students enrolled in the undergraduate colleges and departments of the University. Similar information for students in The Graduate School and The School of Law is available in the bulletins of those schools.

The listing of any fee or incidental charge in this catalog does not constitute a contract between the University and the student. Because of rapidly changing conditions it may become necessary to alter a fee structure before the next edition of the catalog is published. As a condition of registration each student will pay the fees in effect at the time he registers.

### Application Fee.

Each student submitting an application for admission to the University must pay, at the time he submits his application, a non-refundable fee of \$5.00.

### Maintenance Fee.

All students, whether resident or non-resident, pay a maintenance fee of \$11.50 per semester hour, not to exceed a maximum of \$112.50. Students paying the maximum fee are entitled to certain health services; admission to home athletic events, concerts, plays, social and other student-sponsored activities; and a subscription to *The Tiger Rag*, student newspaper.

### Tuition.

No charge is made for tuition to bona fide residents of the State of Tennessee; non-residents are charged \$187.50 per semester (for

full-time students) or \$17.00 per semester hour (for part-time students).

The following policy is applied by the State Board of Education in classifying students as residents or non-residents for purpose of assessing tuition charges:

As a general rule the residence of a student is presumed to be that of his parents or guardians on the date of his enrollment at Memphis State University. "Residence" is interpreted to mean the state in which the parents or guardians are domiciled. "Guardian" is interpreted to mean a bona fide legal guardian appointed by the courts for purposes other than the establishment of residence for the purpose of avoiding payment of non-resident tuition. The residence of a married student (minor or adult) or the residence of an unmarried adult student shall be presumed to remain that of his parents or guardians unless he has independently established a residence of his own. The fact that such a student owns and dwells in his own home in Tennessee shall be sufficient evidence to classify him as a Tennessee resident.

The office of the Dean of Admissions and Records shall make the original decision concerning residence classification. The student may appeal this decision to the Committee on Residency; he may also petition this committee at a later date, if circumstances change, to reconsider his classification. Further information about residence classification may be obtained from the office of the Dean of Admissions and Records.

Fees for audits will be assessed on the same basis as fees for credit courses.

### **The Summer Session.**

The Summer Session consists of two separate terms of approximately six weeks each. Charges are assessed, however, not by the term but either (1) for the entire two-term Session or (2) on a semester hour basis. The charge for the entire Session (during which the student may take a maximum of fourteen semester hours) is \$80.00 to residents of Tennessee, \$205.00 to non-residents. The semester-hour charge is \$11.50 per semester hour to residents, \$28.50 per semester hour to non-residents.

The student must indicate his choice of payment plan (either for the full two-term Session or per semester hour) at the time of his initial registration; he may not shift from one plan to the other thereafter. No part of his payment is returnable unless he withdraws from the University within the period during which refunds are allowed. If, for example, he pays for the entire Session and then enrolls for fewer than the maximum number of hours allowed him, or if he decides to attend only one term, no part of his \$80.00

(or \$205.00) payment will be refunded. The student who wishes to attend for only one term or to take fewer than eight semester hours in two terms should, for his own benefit, pay at the semester-hour rate.

### Courses in Applied Music.

The fee for all private lessons in brasses, canon and fugue, composition, organ, percussion, piano, strings, woodwinds, and voice is \$50.00 per half-hour lesson per semester. Those students who are majoring in music (those currently registered for music theory) will pay only one \$50.00 fee per semester.

### Refunds of Fees.

If a student withdraws from the University within seven days after the beginning of classes for the fall and spring terms, a refund will be made of 80% of his maintenance fee and tuition or music fee (if any). Each week thereafter, the amount will be reduced 20%. *All other fees are non-refundable.*

For The Summer Session a refund of 80% of the maintenance fee and tuition or music fee (if any) is made if the student withdraws from the University within three school days after the beginning of classes. Each three school days thereafter, the amount will be reduced 20%. *All other fees are non-refundable.*

### Residence Halls.

Charges for rooms in University residence halls are indicated below. For information concerning application for rooms, see page 92.

	<i>Per Semester*</i>	<i>Per Summer Term*</i>
Rawls Hall (air conditioned).....	\$154.00	\$ 46.50
Robison Hall (air conditioned).....	\$137.00	\$ 38.50
Central and Highland Towers (air conditioned and full meals).....	\$506.50	\$173.00
All other residence halls.....	\$131.50	\$ 40.25

The following policy covering residence hall contracts, deposits, and rental fees shall be in effect beginning with the fall, 1968, semester:

1. All residence hall contracts are for the academic year or

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\*All rates include telephone (except in Robison Hall) and post-office box, but *not* long-distance telephone tolls.



any portion thereof and cover residency each succeeding year until cancellation or withdrawal from the University.

2. Each application for residence hall accommodations must be accompanied by a deposit of \$25.00. This deposit against damages shall remain on file with the University throughout the student's occupancy of housing facilities, and is refundable only under the following conditions:

- A. When written request is received in the Housing Office prior to July 15 for the fall semester, January 5 for the spring semester, and May 1 for the summer term.
- B. When a student is denied admittance or re-entry to the University.

Approved refunds will be reduced by the amount of any unpaid damages at the time residence hall space is vacated.

3. Initial applications for residence hall accommodations in halls other than Highland or Central Towers must be accompanied by an advance rental payment of \$25.00 which will be applied to total rent at registration. (This is in addition to the \$25.00 deposit mentioned above.)

4. Students who wish to retain their rooms for subsequent semesters must make this advance payment by July 15 for the fall semester and by January 5 for the spring semester.

5. No prepayment of rent is required for the summer term.

6. Refunds of the \$25.00 advance rental payment will be made only when the following conditions exist:

- A. The student is denied admittance or re-entry to the University.
- B. The student is prevented from entering the University because of medical reasons, such reasons confirmed in writing by a licensed physician.
- C. The student is inducted into the armed services involuntarily. This does *not* include voluntary enlistment or the call to active duty by a student who voluntarily enters reserve duty.
- D. Residence hall space is not available.
- E. Reservations are cancelled prior to July 15 for the fall semester and January 5 for the spring semester.

7. Refunds of residence hall rent after classes begin will be prorated on a weekly calendar basis when the following conditions exist:

- A. The student is forced to withdraw from the residence hall because of medical reasons, such reasons being supported by a statement from a licensed physician.
- B. Armed forces inductions as in item 6C above.

### **Meals.**

The University cafeterias, student centers, and vending areas, open to all students, provide wholesome food at reasonable prices. Cost of meals per student is estimated at \$2.50 per day.

### **Air Force ROTC Deposit.**

A uniform deposit of \$13.00 and a \$2.00 activity fee are required of each student who enrolls in the Air Force ROTC program. The uniform deposit, less charges for uniform loss or damage, will be refunded at the end of the academic year or at the beginning of a semester in which the student is not enrolled in the ROTC program.

### **Laboratory Deposits.**

Certain courses in chemistry require breakage deposits, any unused portion of which is refunded.

### **Physical Education Deposits.**

Students enrolled in physical education courses must make a deposit of \$5.00 on the lock and towel issued them. This deposit, less a service charge of \$1.50 per semester, will be refunded upon return of the lock and towel.

### **Late Registration.**

Students who do not complete registration (including the payment of fees) during the official registration period will be charged \$5.00 for the first day after the official registration period and \$1.00 per day thereafter.

### **Adding and Dropping Courses.**

A charge of \$3.00 per course will be made for each course which is added or dropped after the student has completed registration.

### Late Examinations.

A student who is permitted to take a final examination at a date later than the one on which the examination was originally scheduled will be charged \$1.00 per examination.

### Transcripts.

One transcript of the student's academic record at Memphis State University is furnished free; a charge of \$1.00 is made for each additional copy requested. Transcripts are issued only at the request of the student or his authorized agent. No transcript will be provided for a student who has any financial indebtedness to the University.

### Diploma Fee.

Each candidate for a degree from Memphis State University pays a \$15.00 fee to cover cost of the diploma, rental of cap and gown, and incidentals connected with the commencement exercises. This fee must be paid thirty days before graduation.

### Automobile Registration.

Each person who expects to operate and park an automobile on the campus must register it in the traffic office (Room 130, Administration Building) and pay \$3.00 for an official permit, valid from September through August.

### Identification Cards.

The University issues to each student an identification card, including his photograph, personal description, and certificate that he is enrolled as a student in the University. The card is required for registration, the borrowing of library books, the cashing of personal checks, and other purposes. *The card remains the property of Memphis State University*; a charge of \$10.00 will be required for its replacement.

### Bad Checks.

It is expected that a check given in payment of any fee will clear the bank on which it is drawn. *If a check is returned, the fee is assumed to be unpaid and charges for late payment will be assessed.* A \$2.00 service charge will be assessed for each bad check, whether given in payment of fees or cashed by the University for the personal convenience of the student. Check-cashing privileges will be revoked for any student who has checks returned by his bank more than once.

**Summary of Expenses, 1968-69.**

*(This table is applicable only to students in the undergraduate colleges and departments; charges for The Graduate School and for The School of Law are detailed in the bulletins of those schools).*

**Fall and Spring Semesters**

	<i>Residents</i>	<i>Non-Residents</i>
Per semester (full-time student) . . . . .	\$112.50	\$300.00
Per semester hour (part-time student) . . . . .	\$ 11.50	\$ 28.50

**The Summer Session (two terms)**

	<i>Residents</i>	<i>Non-Residents</i>
Per session (two terms) . . . . .	\$ 80.00	\$205.00
Per semester hour . . . . .	\$ 11.50	\$ 28.50

**Student Housing**

	<i>Per Semester</i>	<i>Per Summer Term</i>
Rawls Hall (air conditioned, telephone, post office box) . . . . .	\$154.00	\$ 46.50
Robison Hall (air conditioned, post office box) . . . . .	\$137.00	\$ 38.50
Central and Highland Towers (air conditioned, telephone, post office box, and full meals) . . . . .	\$506.50	\$173.00
All other residence halls (telephone and post office box) . . . . .	\$131.50	\$ 40.25

(Rates do not include long distance telephone tolls.)

**Applied Music Courses**

Private lessons in brasses, canon and fugues, composition, organ, percussion, piano, strings, woodwinds, and voice. \$50.00 per semester  
(Students currently enrolled for music theory will pay only one \$50.00 fee per semester.)

**Incidental Charges**

Adding courses	\$ 3.00 per course
Application for admission	5.00 per application
Automobile registration	3.00 per automobile
Diploma	15.00 payable once
Dropping courses	3.00 per course
Late examinations	1.00 per examination
Late registration	5.00 for first day after official registration period; \$1.00 per day thereafter
Transcripts	1.00 per copy after first copy
Air Force ROTC activity fee	2.00 per year

**Deposits**

Air Force ROTC Uniform	\$13.00 (refundable, less charges for loss or damage)
Dormitory rooms	\$25.00 (refundable, less charges, upon termination of occupancy)
Laboratory breakage	Variable (refundable less charges)
Physical Education Lock & Towel	\$ 5.00 (refundable less service charge of \$1.50 per semester plus loss or damage)

**Additional Charges**

The University reserves the right to increase the *charges* listed herein or to add new ones whenever such increases or additions are found to be necessary.

## Aids, Awards to Students.

All applications for scholarships and loans should be addressed to the Director of Student Aid, unless some other procedure is specifically indicated in the following descriptions of scholarships and loan funds.

Before a student may be considered for any scholarship or loan, a family financial statement must be completed and submitted to the American College Testing Program for analysis. These forms may be obtained from high school guidance offices or from Memphis State University.

## Scholarships.

Applications for the fall semester must be received no later than April; for the spring semester, no later than one month before registration for the spring semester.

THE ADVERTISING CLUB OF MEMPHIS annually awards a scholarship of \$250 to the outstanding junior or senior student majoring in advertising.

AFROTC FINANCIAL ASSISTANCE GRANTS are awarded annually by the United States Air Force to certain male students in the AFROTC Professional Officer Course; awarded on a competitive basis, these grants include tuition, books, fees, and \$50 per month for one, two, or three-year period.

THE AL CHYMIA SHRINE SCHOLARSHIP is awarded annually to an outstanding high school senior majoring in journalism. This scholarship is for the amount of registration fees during the freshman year only.

ALPHA DELTA KAPPA, ALPHA CHAPTER, annually awards a \$200 scholarship to a woman student in her junior or senior year who is a resident of Shelby County and is preparing to enter the field of teaching.

ALPHA DELTA KAPPA, LAMBDA CHAPTER, annually awards a \$125 scholarship to a woman student in her junior or senior year preparing to enter the field of teaching.

THE ALPHA XI DELTA MATHEMATICS SCHOLARSHIP of \$50 is awarded to the most outstanding junior woman majoring in mathematics.

THE R. C. ANDERSON SCHOLARSHIP FUND was established by the late R. C. Anderson, the interest from whose estate is to be used to provide scholarships for young men in their freshman and sophomore years who are residents from Benton, Decatur, or Henderson County.

THE DEPARTMENT OF ART annually awards a number of scholarships to students who demonstrate an ability in this area. Inquiries should be addressed to the chairman of the department.

BAND SCHOLARSHIPS, varying in amounts from \$50 to \$250, are awarded annually to University band students. Inquiries should be addressed to the Director of Bands.

THE COTERIE, an organization of women interested in the arts and philanthropies in the arts, provides scholarships to enable young women to continue their studies in the fine arts.

THE MEMPHIS CHAPTER, FINANCIAL EXECUTIVES' INSTITUTE SCHOLARSHIP of \$250 is awarded annually to a second-semester junior student in The College of Business Administration. Ability, need, and an interest in controllership or financial management are important criteria.



THE FOREST HILL CEMETERY COMPANY SCHOLARSHIP is a four-year award of \$2,000 to an outstanding high school graduate of Memphis or Shelby County. The recipient is selected by a joint committee of the Forest Hill Cemetery Company and the University.

THE GENERAL UNIVERSITY SCHOLARSHIP FUND provides scholarships varying in amount and duration to outstanding high school graduates.

THE A. ARTHUR HALLE MEMORIAL SCHOLARSHIP FUND annually provides two scholarships of \$200 each to outstanding high school graduates for the freshman year only.

THE HIGHLAND TOWERS SCHOLARSHIPS are provided by Allen & O'Hara, Inc., to cover the room and board expense for residents in the Highland Towers dormitories. There are two awards, one to a male student and the second to a female student.

THE ED HUMPHREYS SCHOLARSHIP FUND annually provides scholarships in varying amounts to outstanding high school graduates.

THE JOSEPHINE CIRCLE SCHOLARSHIP, in the amount of registration fees, is awarded annually. The award is made on the basis of scholastic record, personality, future plans of the applicant, and need.

THE LEO LEVY SCHOLARSHIP FUND annually provides scholarships in varying amounts to outstanding high school graduates.

THE JAMES E. MCGEHEE MORTGAGE COMPANY SCHOLARSHIP was endowed in 1966 by the McGehee Mortgage Company with a \$10,000 donation. Interest from the investment of these funds is used to award an annual scholarship to an outstanding high school graduate.

THE P. H. MANNING SCHOLARSHIP FUND was established by the late Professor P. H. Manning, who left the bulk of his estate to be used by the State Board of Education to provide scholarships for young men students meeting certain conditions set forth in his will. The scholarships of \$100 each are given to young men from Carroll, Decatur, Gibson, and Henderson counties.

THE MIKE MCGEE MEMORIAL SCHOLARSHIP FUND, maintained by the Memphis Press Club, provides one or more scholarships of \$250 each year. These scholarships are awarded to journalism majors of any class with a minimum grade average of 2.7 upon approval of the Memphis Press Club scholarship committee.

THE MEMPHIS ELECTRIC LEAGUE SCHOLARSHIP of \$500 is awarded annually to a student from Shelby County on the basis of scholastic achievement and need.

THE MEMPHIS HIGH SCHOOL ALUMNI SCHOLARSHIP FUND provides an annual scholarship in the amount of \$250 to a graduate of a high school in the city of Memphis.

THE MEMPHIS HOUSEWARES CLUB annually provides a \$200 scholarship to a student in The College of Business Administration with a major in Sales.

MEMPHIS LINKS offers annually, to a major in speech and drama, a scholarship which pays the annual registration fee required for residents of Tennessee.

THE MEMPHIS REAL ESTATE BOARD SCHOLARSHIP is awarded annually to an outstanding student from Memphis or Shelby County who desires to major in real estate.

THE MEMPHIS CHAPTER OF THE NATIONAL ASSOCIATION OF ACCOUNTANTS annually awards a scholarship of \$100 to an outstanding accounting major

selected by the faculty of the Department of Accountancy. A scholarship key is presented to the recipient.

THE MEMPHIS STATE UNIVERSITY SECRETARIES ASSOCIATION SCHOLARSHIP is a \$250 award to a student in The College of Business Administration majoring in Secretarial Science.

THE MEMPHIS STATE UNIVERSITY ALUMNI ASSOCIATION SCHOLARSHIP FUND annually provides scholarships in the amount of \$500 each to outstanding high school graduates. At least one recipient is named from each of the alumni districts, and a number are awarded at large.

THE PERSONAL LOAN AND FINANCE SCHOLARSHIP of \$250 is awarded annually to a freshman majoring in The College of Business Administration.

THE SERTOMA CLUB—ROBERT TALLEY JOURNALISM SCHOLARSHIP was established to honor a long-time member of the editorial staff of the Memphis *Commercial Appeal*. Each year the Sertoma Club of Memphis awards a scholarship valued up to \$350 to an advanced journalism student who has done outstanding work at Memphis State University. Applications should be submitted to the dean of The College of Arts and Sciences.

SNELLING AND SNELLING PERSONNEL CONSULTANTS annually provide a \$250 scholarship to a student in The College of Business Administration with a major in Sales.

THE SOUTHERN BOILER AND TANK WORKS SCHOLARSHIP FUND annually provides two scholarships of \$250 each to freshman and sophomore engineering students with outstanding academic records.

THE TENNESSEE BROADCASTERS ASSOCIATION SCHOLARSHIP of \$300 is awarded annually to an outstanding student majoring in Radio and Television.

THE TENNESSEE CONSUMER FINANCE ASSOCIATION SCHOLARSHIP of \$250 is awarded annually to a major in The College of Business Administration demonstrating ability, need, and an interest in consumer credit.

THE TENNESSEE SOCIETY OF CERTIFIED PUBLIC ACCOUNTANTS awards annually fourteen scholarships of \$250 each to accounting majors with good academic averages, enrolled in qualifying Tennessee colleges. The scholarships are awarded on a competitive basis in relation to scholarship, extra-curricular activity, character, and financial need.

S. C. TOOF & Co. annually awards a scholarship of \$250 to an outstanding junior or senior student majoring in advertising.

THE UNITED DAUGHTERS OF THE CONFEDERACY BOOK SCHOLARSHIP is awarded annually to a student who is a descendant of a Confederate soldier. This award is for \$50.

UNIVERSITY SCHOLARSHIPS. Memphis State University awards annually 250 to 300 State Board scholarships to students who have exceptionally good academic records and are residents of Tennessee. These scholarships pay the annual registration fees required of residents of Tennessee. Recipients are required to work thirty hours per semester.

THE WDIA EDITORIAL SCHOLARSHIP of \$500 is awarded to an outstanding student in the field of Journalism.

THE HORACE H. WILLIS MEMORIAL SCHOLARSHIP of \$250 annually is awarded from time to time to an incoming freshman on the basis of need for financial assistance and evidence of academic promise.

THE WOMEN'S ASSOCIATION OF THE UNIVERSITY awards annually one semester's registration fees to a junior woman selected on the basis of outstanding academic achievement.

## Loan Funds.

THE AMERICAN ASSOCIATION OF UNIVERSITY WOMEN LOAN FUND of \$200, administered by the Memphis branch of the AAUW, is available to women students recommended by the University.

THE AULL LOAN FUND of \$250, contributed by Mrs. Genevieve Aull, is to be used for loans to members of the senior class who have demonstrated their scholastic eligibility by one or more years of satisfactory work in residence.

THE JOHN WILLARD BRISTER LOAN FUND. On the occasion of the twenty-first birthday celebration of the University, the members of the faculty presented a fund of \$150 to be named in honor of the late President John Willard Brister.

THE CLASS OF 1933 LOAN FUND of \$102 was donated by the Class of 1933 as a class memorial.

DAUGHTERS OF THE AMERICAN REVOLUTION, FORT ASSUMPTION CHAPTER OF MEMPHIS, LOAN FUND of \$500 is available for loans to eligible students.

THE GENERAL UNIVERSITY LOAN FUND provides short term, low interest loans up to \$200 for those students who have an emergency or immediate need for funds.

THE DR. JENNINGS B. GEORGE LOAN FUND of \$1,000 was established in honor of Dr. Jennings B. George.

THE OWEN ROGERS HUGHES MEMORIAL LOAN FUND of \$100 is available for loans to eligible students.

THE KAPPA LAMBDA SIGMA AND PHI LAMBDA DELTA LOAN FUND of \$206 was presented by the Kappa Lambda Sigma sorority and the Phi Lambda Delta fraternity in memory of those members of Phi Lambda Delta who died in World War II.

THE MARION CIRCLE LOAN FUND of \$100 is available for loans to eligible students.

THE MEMPHIS SALES EXECUTIVES—PI SIGMA EPSILON (KAPPA CHAPTER) LOAN FUND, provides emergency loans up to \$100 for upper-division students in The College of Business Administration. Maximum loan to any one student over a two-year period is \$200.

THE NATIONAL DEFENSE STUDENT LOAN PROGRAM. The National Defense Education Act of 1958 provided funds to institutions for the purpose of making low interest, long term educational loans available to students who demonstrate academic promise. These loans bear no interest until nine months after a student graduates or interrupts his course of study and then the interest rate is three per cent. Undergraduates are permitted to borrow up to \$1,000 a year based on their educational costs and personal resources. Persons who later teach may receive 10% cancellation of their loan for each year they teach, up to five years. Applications must be received not later than August 1, for students desiring loans for the fall semester.

THE DELTA OMICRON CHAPTER OF PHI DELTA KAPPA sponsors a loan fund of \$500, available in \$125 loans to full-time undergraduate seniors and full-time graduate students who are planning to be teachers.

THE QUOTA CLUB LOAN FUND, administered by the Quota Club of Memphis, makes funds available to women students of junior or senior rank. Applications are to be submitted to Mrs. Ellen Davies Rodgers, chairman of the Education Committee of the Memphis Quota Club.

THE SHELBY COUNTY PARENT-TEACHER ASSOCIATION LOAN FUND of \$602.38 is available in varying amounts to eligible students.

TENNESSEE ASSOCIATION OF PUBLIC ACCOUNTANTS LOAN FUND was established to enable a needy junior or senior-year student in the Department of Accountancy to remain in the University. Loans are non-interest as long as student remains in the University.

THE TENNESSEE EDUCATIONAL LOAN CORPORATION, in cooperation with the federal government, guarantees 100% of loans made by Tennessee banks or other lending institutions to students from Tennessee who need to borrow money for their college education. This program enables lending institutions to provide long-term, low interest loans to students with a guarantee of receiving repayment. The federal government pays the interest on these loans while a student is enrolled in college and pays one-half the interest after the student leaves college. Applications can be obtained from participating lending institutions and the University. Applications for these loans should be filed not later than August 1.

THE UNITED STATES DAUGHTERS OF 1812 LOAN FUND of \$650, donated by the Old Hickory Chapter, USD of 1812, Memphis, consists of three awards: (1) the Mary Robinson Day Memorial Scholarship of \$250; (2) the Martha Moore Allen Scholarship of \$250; and (3) the Willis Hitzing Scholarship of \$125. All three of these awards are loan funds and may be awarded to a man or woman on recommendation of the faculty.

THE ZONTA CLUB OF MEMPHIS LOAN FUND of \$250 is available to eligible junior and senior women. Applications are to be made through the Dean of Women who will submit the names to a committee of the Zonta Club for approval and selection.

## Awards.

THE COLLEGIATE CHAPTER OF THE AMERICAN MARKETING ASSOCIATION each year makes an award of a plaque to the outstanding senior majoring in marketing.

THE MEMPHIS CHAPTER OF ARCHITECTURAL WOODWORKERS offers cooperative employment opportunities for senior students majoring in drafting and design and in construction technology.

THE CHEMICAL RUBBER PUBLISHING COMPANY annually awards the *Handbook of Chemistry and Physics* to two freshman students selected by the faculties in chemistry and physics as outstanding in these fields of study.

THE PHI CHAPTER OF CHI BETA PHI, national honorary scientific fraternity, annually awards a plaque to the student who has attained the highest average grades during his four years of study in each of the disciplines of biology, chemistry, mathematics, and physics.

THE CITY PANHELLENIC ASSOCIATION makes an annual award to the sorority woman in the graduating class with the highest average.

DELTA SIGMA PI, international business fraternity, annually awards a scholarship key to the man in The College of Business Administration graduating with the highest scholastic average in business subjects.

THE GOOCH FOUNDATION makes an annual award to the freshman holder of a Gooch Scholarship who has the highest scholastic average for the year.

PHI GAMMA NU, professional sorority in business, each year presents a scholarship key to the woman business graduate who has maintained the highest scholastic average in The College of Business Administration.

THE SIMON AND GWYNN MARKETING AWARD is given annually to a senior majoring in marketing for the best treatise on a selected subject on advertising or marketing. The award consists of \$100 and a trophy.



THE STUDENT GOVERNMENT ASSOCIATION of the University makes an award at each convocation to the man in the class who, graduating with honors, shows the highest scholastic attainment.

THE SMEAD AWARD is presented to the outstanding graduate in the field of business education who is planning a career of teaching.

THE MEMPHIS CHAPTER OF THE TENNESSEE SOCIETY OF CERTIFIED PUBLIC ACCOUNTANTS presents a plaque each year to the graduating student who has the highest overall scholastic average among all accountancy majors.

THE WALL STREET JOURNAL annually awards a plaque and a year's subscription to the *Journal* to the most outstanding graduate in the fields of management or finance.

THE WOMEN'S ASSOCIATION OF THE UNIVERSITY makes an award at each convocation to the woman member of the senior class who, graduating with honors, shows the highest scholastic attainment.

*Stage productions (opposite page) are one area of many University activities and organizations in which the student may participate.*



# Student Life and Activities

# 5



### Student Conduct.

It is assumed that applicants for admission to Memphis State University are ladies and gentlemen, and every consideration will be shown them as such until, by their own acts, they forfeit the confidence reposed in them. Rules of government and regulations in regard to general conduct are, of course, necessary. Whenever any number of people live together, each must forfeit some individual privileges for the general good. The rules and regulations at Memphis State University are of such nature as to secure ready conformity and also sympathy and cooperation on the part of students in making them effective. These rules and regulations are outlined in the Student Handbook, distributed to all students at the time of initial registration; each student is expected to keep this handbook and use it as a guide during his residence at Memphis State University.

### Student Housing.

The University operates six residence hall's for men and six residence halls for women. Students wishing to live in residence halls should make applications at the earliest possible date. Application forms may be obtained from the Admissions Office or the Director of University Housing; completed applications should be submitted to the Director of Housing. For information concerning residence hall rents and deposits, see page 80.

All unmarried undergraduate women not living in University housing or with their parents or legal guardians must have their place of residence approved by the Dean of Women prior to registration.

All beginning freshman men who are single, under the age of 21, and who do not reside with their parents or legal guardians are required to live in University-approved housing as long as space permits.

Married students enrolled in the University are eligible to apply to the Director of Housing for space in one of the Vets Village apartments for married students; the husband must be enrolled in the University as a full-time student. Preference is given to veterans.

Any request for exceptions to housing policies must be made in writing to the Director of University Housing prior to registration. A student should not assume his request has been approved until written acknowledgement has been received from the Housing Office. Permission to live in non-University housing is granted for one semester only.

### **Automobiles on Campus.**

Each person who expects to operate and park an automobile on the campus of Memphis State University must register it in the Security and Traffic Office and receive an official permit. Permits are valid from September through August.

Limited parking space necessitates close regulation of traffic. Each student is responsible for acquainting himself with the campus traffic and parking regulations, copies of which are available in Room 130, Administration Building.

### **Health Service.**

A student Health Service, maintained by the University for all full-time students who have paid the maximum maintenance fee, provides services of physicians and registered nurses for minor treatment and consultation. The student is financially responsible for hospitalization and medical care beyond that offered by the Health Service. The University Health Service does not cover the additional costs for special health care such as consultations with specialists, special nursing care, surgical operations, and dental treatment. In case of serious illness, the parents of the student are notified, and the student is admitted to a general hospital at his own expense.

Special sickness and accident insurance policies for students are available; they are particularly valuable to those students whose coverage under family policies has terminated. Policies are issued by a private agency, authorized and approved by the University. Details are available at registration.

### **Hospitalization.**

Emergencies which require hospitalization of dormitory students are often accompanied by confusion and dangerous delays while parents are notified in order to clear hospital admission for the student who is not covered by hospitalization insurance. For the welfare of the dormitory student and because the University can assume no financial responsibility for hospitalization, it is strongly recommended that each dormitory student be covered by a family policy or be enrolled in the Memphis State University Student Insurance Plan, which has University support and approval.

### **Counseling Service.**

The Office of Counseling Services, located in Johnson Hall, provides personal counseling for University students. Those students who need advice concerning personal problems or their occupational choice will normally make contact with the Counseling

Office by way of referral through the Student Health Service or the personnel deans. A student may, however, avail himself of these services by going directly to the Counseling Office.

### **Placement Services.**

The Alumni Placement Service in Scates Hall arranges employment interviews for graduating seniors and graduate students. On-campus interviews are scheduled October through May. The office maintains an active file of employment opportunities for alumni who wish to change positions or to advance in their field. The Alumni Placement office is open in the summer as well as during the regular academic year.

Teacher Placement, because of its specialized nature, is coordinated in the Office of Teacher Placement in The College of Education Building.

Part-time employment for undergraduate students is handled through a branch office of the Tennessee Department of Employment Security, located on the first floor of the Administration Building. In cooperation with employers throughout metropolitan Memphis, this office attempts to place students in part-time employment which is in keeping with their ultimate employment goals. Part-time employment for freshmen is normally discouraged.

### **Bookstore.**

The University Bookstore, located in the University Center, is owned and operated by the University for the convenience of its students, faculty, staff, and their guests. In addition to textbooks and supplies required or recommended for every course in the University, the Bookstore also stocks clothing, cosmetics, notions, physical education uniforms, stationery, rental typewriters, and gift items; it is the only outlet for purchase of the official Memphis State University class ring.

### **Post Office.**

The University Post Office, located on the first floor of Jones Hall, has post office boxes available for rent by students and faculty. Students living in University housing have post office boxes located in these facilities, charges for which are included in the dormitory rent. Student mail should be addressed to the proper post office box number, Memphis State University, Memphis, Tennessee 38111.

### **Athletic Programs.**

The University sponsors a two-phase athletic program, intramural and intercollegiate. The intramural program is under the super-



vision of the Department of Health, Physical Education, and Recreation. Policies for intercollegiate athletics are set by the University Committee on Athletics.

The intramural program operates throughout the year and provides students with opportunities to compete in seasonal sports either as individuals or as members of teams from the various student organizations. Individual competition is offered in tennis, shuffleboard, badminton, table tennis, archery, handball, golf, billiards, and football field events. Team participation is offered in softball, bowling, basketball, volleyball, and track. Recreational equipment may be borrowed from the recreational loan office.

The intercollegiate program sponsors teams in football, basketball, baseball, track, golf, tennis, and gymnastics. These teams compete in a regular schedule with teams from other recognized institutions of the same scholastic level as Memphis State University.

Athletic facilities on the campus include four gymnasiums, ten all-weather tennis courts, six handball courts, a football field, and a quarter-mile running track.

The Department of Health, Physical Education, and Recreation is closely associated with both the intramural and intercollegiate programs. Coaches serve as instructors in this department, and students utilize the three programs and facilities in preparation for careers in the fields of health, physical education, and recreation.

### Alumni Association.

The Memphis State University Alumni Association, with offices at 3709 Norriswood Avenue, maintains active contact with graduates for the mutual benefit of alumni and the University. Annual meetings of the association are held on campus each autumn as part of Homecoming. The Alumni Association publishes the magazine, *The Columns*, and *Profile*, a newsletter.

### Extra-Curricular Activities.

A variety of extra-curricular activities, under competent supervision and direction, is included in the University's program and furnishes valuable experience and training for students. Participation in extra-curricular activities is a privilege extended only to students who are in good standing and who meet the particular requirements of the various organizations. Invitations to membership, when required, are extended by the individual organizations.

The following activities and services are provided free to full-time students: *The Tiger Rag*, *Phoenix*, *Student Handbook*,



*DeSoto* (if student has picture made), intramurals, athletic events, and most cultural events on campus unless a reserved seat is desired.

No attempt is made in the following section to present an exhaustive or detailed account of all organizations and their activities. Full information is provided in the Student Handbook, distributed to all students at registration. Copies are available in the offices of the Dean of Students.

**STUDENT GOVERNMENT.** The Student Government Association is composed of officers, a senate, a cabinet, and a judiciary elected annually by the student body. It exercises responsibility in those areas of student life delegated to it by the University and represents student opinion in working with the administration toward the good of the University.

**PUBLICATIONS.** Students write and edit *The Tiger Rag*, semi-weekly newspaper; *The DeSoto*, University yearbook; *The Phoenix*, the literary magazine; and the *Memphis Statesman*, a laboratory publication of the Department of Journalism.

**ART.** The Department of Art sponsors exhibitions of art works throughout the year. The galleries in Jones Hall and Brister library display the work of national and local talent in addition to faculty shows and the annual student exhibit. Lectures and films on art are also a part of the department's yearly program.

**MUSIC.** Qualified students, whatever their majors, may participate in the numerous musical groups organized and directed by the Department of Music, including the University Symphony Orchestra, the Music Education Orchestra, the University Bands (marching, concert, and stage), and a variety of choral groups and small instrumental ensembles. The department presents an extensive offering of concert recitals by faculty, students, and visiting artists. The Memphis State String Quartet and the Memphis State Woodwind Quintet present an annual series of chamber music programs. The department also presents major opera and oratorio productions.

**SPEECH AND DRAMA.** Qualified students are invited to audition for roles in the plays produced each year by the Department of Speech and Drama. The department now produces six major productions during the academic year; in addition, it sponsors a Lunch Box Theatre, a student organized and operated experimental theatre; Readers Theatre, designed to present concert readings and programs of oral interpretation; original script programs; and the forensics program, affording students opportunities to participate in debate, extemporaneous speaking, oratory, after-dinner speaking, oral interpretation, and group discussions. From this latter group are chosen those students who represent the University in its extensive intercollegiate forensics program. The department has a major program in radio, television, and film, and other phases of broadcasting, as well as on-the-air announcing and performances. During the summer the department sponsors a program of plays, productions of original scripts, a Speech Institute for high school students, and a communications conference.

**THE GOODWYN INSTITUTE LECTURES.** The Goodwyn Institute, founded and endowed by William A. Goodwyn, philanthropist and former citizen of Memphis, provides a series of free lectures and addresses covering a wide variety of subjects. The aim of the Institute is to offer to the citizens of Memphis and the students of the University authoritative and accurate information on all kinds of practical and cultural subjects. Public forums frequently follow the lectures, all of which are held in the University Auditorium.

Admission is free, and reserved seat tickets may be obtained in the office of the Director of the Goodwyn Institute.

**RELIGIOUS ACTIVITIES.** Religious life on the campus is under the direction of a standing committee of the faculty and a student religious council functioning in cooperation with the Student Government Association. The major religious bodies maintain meeting facilities adjacent to the campus, each supervised by its own staff; they provide activities adapted to the needs of the University community and designed to aid in the continuing religious growth and development of faculty and students. The organized religious groups include the Baptist Student Union, Barth House, Chi Alpha, Christian Science Organization, Hillel Foundation, Koinonia Club, Newman Club, Wesley Foundation, Westminster Fellowship, and Wittenberg Society. The Religious Council plans campus activities (including a lecture series) at appropriate times during the year.

**SCHOLARSHIP, LEADERSHIP, AND PROFESSIONAL ORGANIZATIONS.** Many national honorary societies, devoted to encouraging high standards of scholarship, leadership, and professional competence, maintain active chapters on the campus. In addition, most departments and subject-matter areas sponsor local clubs to provide majors and other interested students with experiences and activities not always available in the classroom. Organizations petitioning for membership in a national society maintain all standards required for affiliates. Local organizations operate under charters issued by the Student Government Association; revocation of a charter entails loss of University recognition and sanction. Detailed information concerning these organizations, including requirements for membership, purposes, and specific activities, will be found in the Student Handbook and from sponsoring departments.

**SOCIAL FRATERNITIES AND SORORITIES.** Twelve national fraternities maintain chapters at the University: Acacia, Alpha Epsilon Pi, Alpha Tau Omega, Zeta Beta Tau, Kappa Alpha, Kappa Sigma, Lambda Chi Alpha, Pi Kappa Alpha, Pi Kappa Phi, Sigma Alpha Epsilon, Sigma Chi and Sigma Phi Epsilon. Most chapters own houses off the campus and offer limited rooming facilities to upperclassmen. Student supervision and coordination of their activities are provided through the Interfraternity Council. Four colonies are petitioning for national recognition: Phi Beta Sigma, Phi Kappa Theta, Phi Kappa Psi, Phi Sigma Kappa.

Twelve national sororities maintain chapters at the University: Alpha Delta Pi, Alpha Gamma Delta, Alpha Phi, Alpha Xi Delta, Delta Gamma, Delta Sigma Theta, Delta Zeta, Gamma Phi Beta, Phi Mu, Pi Beta Phi, Sigma Delta Tau, and Sigma Kappa. Most have suites in the Panhellenic Building. Student supervision and coordination of activities are provided through the Panhellenic Council.

University supervision of fraternity and sorority activities is provided through the offices of the Dean of Men and the Dean of Women.

*The School of Law (opposite page) is located on Central Avenue in the University's newly-developed north campus area.*

# Academic Regulations 6





### The Academic Year.

The academic year begins in September and covers a period of forty-eight weeks divided into two semesters and a summer session. Each semester is approximately eighteen weeks in length, and The Summer Session is divided into two terms of from five to six weeks each. Students may enter at the beginning of either of the regular semesters or at the beginning of either of the two terms of The Summer Session.

### Orientation, Counseling, and Registration.

An orientation program for all new undergraduate students is held on the days preceding registration as outlined in the University Calendar. During these orientation sessions, members of the administration and faculty introduce the new students to various programs of study, general University regulations, and basic registration procedures. Students are assigned to faculty advisers in the field of their major interest who aid them in selecting the appropriate courses. Throughout his residence at the University, each student has the assistance of his faculty adviser in all scholastic matters. *This assistance, however, does not relieve the student of the responsibility of studying the catalog himself and fulfilling all of the requirements therein for his particular goal.* It is expected that a student who has attained senior standing will consult with the dean of his college in regard to the fulfilling of the requirements for his chosen degree.

The Schedule of Classes, published a few weeks before the beginning of each semester and available from the office of the Dean of Admissions and Records, 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; and all courses for which the student is registered are recorded as passed (with a letter grade), failed, incomplete, withdrew passing, withdrew failing, or dropped. No student will be granted credit for a course which is not properly entered on his official registration card. Registration is not complete until all fees for the semester have been paid.

### Classification of Students.

Students having 25 semester hours of credit and two semesters of residence are classified as sophomores; students having 55 sem-



ester hours of credit and four semesters of residence are classified as juniors; students having 85 semester hours of credit and six semesters of residence are classified as seniors.

*Special students.* Only those students who hold baccalaureate degrees and who are registered in courses for undergraduate credit may be classified as special students. All others, whether full- or part-time, are classified as freshmen, sophomores, juniors, seniors, or graduate students.

*Adult-Special Students.* For information concerning admission as an adult-special student see page 73.

Students who have completed the required number of hours and the required residence to be classified as juniors but who have not completed their basic requirements in the Lower Division must schedule these uncompleted requirements during the first semester following in which such courses are available.

## Credit Hours and Maximum Load.

The unit of credit at Memphis State University is the semester hour; a semester hour is defined as the credit earned for the successful completion of one hour per week in class for one semester; or two hours per week of laboratory for one semester. (A course which gives three semester hours credit will normally meet for three lecture or recitation hours per week; or for two lecture or recitation hours and two laboratory hours per week; or for some other combination of these.) Each lecture hour presupposes a minimum of two hours preparation on the part of the student.

The minimum number of semester hours per semester for classification as a full-time student is twelve. The maximum number of semester hours for a student with less than a B average (3.0) is eighteen (not including the required physical education activity course). A student who has a B average for a semester may, with the permission of the dean of his college, schedule a maximum of twenty-one hours for the following semester.

For each term of The Summer Session, four semester hours is the minimum load for classification as a full-time student; six semester hours is the average load; seven semester hours is the maximum. No student may schedule more than a total of fourteen semester hours in the two terms of The Summer Session.

Students who have part-time employment, either on or off the campus, are strongly urged not to register for a full academic load.

## Grades and Quality Points.

*Grades.* At the end of each semester or summer term, instructors report to the Records Office the standing of all students in their

classes. The grade of a student in any course is determined by his class standing and his examination, combined in such proportion as the instructor in charge of the course may decide. Class standing in any course is determined by the quality of the student's work, the regularity of his attendance, and the thoroughness of his preparation. The instructor's evaluation of the student's work is expressed by letters, which have values, on a scale of 100, as follows:

A, excellent (95-100)	BW, withdrew from the University during the drop period
B, good (85-94)	
C, satisfactory (75-84)	PW, withdrew passing after the drop period
D, poor (65-74)	
F, failure (64 or below)	FW, withdrew failing after the drop period
I, incomplete	NC, no credit
DW, if a course is dropped	

The grade of I (incomplete) indicates that the student has not completed the course for some unavoidable reason that is acceptable to his instructor. This grade may be changed by the instructor and credit allowed when the requirements of the course have been met, provided the work has been completed within the first four weeks of the next semester the student is in residence; and provided further that the deficiency is made up within one calendar year from the date the grade of I was given, even if the student has not reentered the University. If the student fails to complete the course within the specified time, no credit will be given for the course. The fee for a late examination is \$1.00.

All grades, with the exception of I, when once reported, can be changed only by the instructor who reported them and then only after approval by the faculty Committee on Entrance and Credits.

A student has the privilege of repeating a course in an attempt to improve the grade previously made. The grade he makes the last time the course is taken is the grade that will be considered as the final grade. A student may not attempt the same course more than three times for the purpose of obtaining a passing grade or a higher grade.

All courses for which the student is registered are recorded as passed (with a letter grade), failed, dropped, withdrew passing, withdrew failing, or incomplete. In no case is credit allowed in any course for which the student is not duly registered. No student will be granted credit for a course which is not properly entered on his official registration card.

**Quality Points.** For the purpose of computing averages, grades are converted to quality points. Each grade of A counts 4 quality points per semester hour; B, 3 quality points; C, 2 quality points; D, 1 quality point; F, DW, BW, PW, and FW, no quality points.

In computing a student's scholarship ratio, or quality point average, all courses attempted are included. As an example: a student carrying five three-semester-hour courses for a total of 15 semester hours makes the following grades: A, B, C, C, F; he has thus accumulated quality points in the amount of 12, 9, 6, 6, 0, for a total of 33. In computing his quality point average, the number of hours attempted (15) is divided into the quality points earned (33) for an average of 2.2.

### **Class Attendance.**

Students at Memphis State University are expected to give their scholastic obligations first consideration. Prompt and regular class attendance is considered necessary for satisfactory work. It is expected that a student will regard an engagement to attend classes as he would any other engagement or conference with an instructor. All reasons for absence should be submitted as soon as possible to the instructor. The satisfactory explanation of absences does not in any sense relieve the student from responsibility for the work of his course during his absence. The instructor in charge of a course determines in all instances the extent to which absences and tardiness affect the student's grade. Absences are counted from the first scheduled meeting of the course.

Absence from the final examination without the permission of the instructor incurs a mark of F.

### **Correspondence or Extension Credit.**

Memphis State University accepts a limited number of credits earned by correspondence and/or extension, provided that such credits are taken from an institution which is a member of the University Extension Association, The Teachers College Extension Association, or the appropriate regional accrediting association. Memphis State University offers some work by extension but none by correspondence.

Prior to a student's initial registration at Memphis State University as a regular undergraduate (for official definition of "regular undergraduate," see page 71), the Office of the Dean of Admissions and Records will, at the time the student applies for admission, determine the acceptability of extension and/or correspondence credits earned at other institutions. After the student has been admitted as a regular undergraduate, whether he is a beginning freshman or a transfer student, he will not be given credit

applicable to any Memphis State University degree for subsequent correspondence or extension courses unless he has obtained, *prior to his enrollment in such courses*, written permission from the dean of the college in which he is majoring.

No student is permitted to enroll for correspondence or extension courses while he is carrying a maximum load at Memphis State University.

Not more than one-fourth of the semester hours applied on the bachelor's degree may be earned by correspondence or extension or a combination of the two.

A student who has completed the two semesters of required residence in his junior and senior years and who lacks *no more* than four semester hours toward completion of degree requirements may earn these additional credits by acceptable correspondence or extension work, or by residence at another approved institution. (For details of residence requirements, see page 110).

### Advanced Placement Credit.

Memphis State University participates in the Advanced Placement Program of the College Entrance Examination Board. A maximum of twelve semester hours may be given to qualified students on the basis of the examinations conducted by the Board. To be eligible for credit, an entering freshman must place in group three, four, or five of the CEEB Advanced Placement Tests.

### Credit by Examination.

Examinations for credit in courses offered by the University may, under special circumstances, be offered to 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. Permission to take an examination for credit will be given only in instances where the student has already gained fundamental knowledge of the subject. In no case will a student be permitted to take a credit examination in a course which he has audited or taken for no credit, or in which he has previously made a grade D or F. Nor may he take the examination for credit if he has already earned credit in a course of equivalent or more advanced standing.

2. Permission to take a credit examination will be granted only to students who are registered for no less than 12 semester hours in residence and who are in good academic standing. Permission to take a credit examination must be secured from the instructor of the course, the department chairman, and the dean of the college in which the student is registered. After permission has been granted, the Dean of Admissions will issue an official permit for the examination after the payment of the cost of the examination plus a fee of \$3.00 per semester hour. No instructor may give a credit examination until the official permit from the Dean of Admissions is presented.



3. Credit examinations normally will be given in conjunction with the final examination in the course for which credit is sought. The faculty and administrative personnel involved may choose to require a standardized examination instead of the final examination, or in addition to it. In no case will credit examinations be administered while the University is not in session.

4. The maximum credit which may be established through credit examination is 15 semester hours with not more than 8 semester hours in one area. Credit for course work earned on an examination basis will not be recorded until the student has successfully completed a more advanced course in the subject with at least a C grade.

5. Credit examinations are indicated on the student's record as P. To pass a credit examination the student must make a grade equivalent of at least a C in the course. Grades on credit examinations will not be used in computing the quality point average.

### **Audit Courses.**

Students who are registered for one or more classes at Memphis State University may also register to audit a course with the approval of their adviser and the chairman of the department in which the course will be offered. Auditors are not required to prepare lessons or papers, or take examinations. They are not to take part in class discussions or laboratory or field work.

Persons who are not enrolled for credit courses may register for audit courses with the approval of the Dean of Admissions and Records and the department chairman.

Students enrolled for credit courses may take no more than one audit course per semester. Persons who are not enrolled for credit courses may register for a maximum of three courses with the approval of the department chairmen.

Fees for audits will be assessed on the same basis as fees for credit courses.

### **Courses for No Credit.**

Students who are not candidates for a degree, and who do not desire to meet admission requirements and earn credit at Memphis State University, may take certain courses for no credit. Anyone interested should consult the dean of the college in which the course he wishes to take is offered.

### **Adding and Dropping Courses.**

After the official registration period is over, the student may make adjustments in his schedule through the process of adding and/or dropping courses. Courses may be added only during the first five days of classes (three days in The Summer Session). Courses may be dropped only during the first three weeks of classes (five days in The Summer Session). Exact dates of termination are carried in the University Calendar.



A course may be added or dropped only by permission of the student's adviser and the dean of the college in which the student is registered. A fee of \$3.00 is charged for each course added or dropped. Dropping a course without permission incurs the grade of F.

### Withdrawal from University.

A student who wishes to withdraw from the University must notify the Dean of Students promptly in writing. Failure to give such notification will result in grades of F on all courses for which the student is registered. Students enrolled in The Evening Division should report their withdrawals to the office of the director of The Division of Continuing Studies.

Withdrawal from the fall semester is not permitted after November 30; withdrawal from the spring semester is not permitted after April 30. Withdrawal from either term of The Summer Session is not permitted within four class days of final examinations.

Any student who withdraws after the termination of the period during which courses may be dropped (see above, Adding and Dropping Courses) will have all courses not previously dropped recorded as either PW (withdrew passing) or FW (withdrew failing).

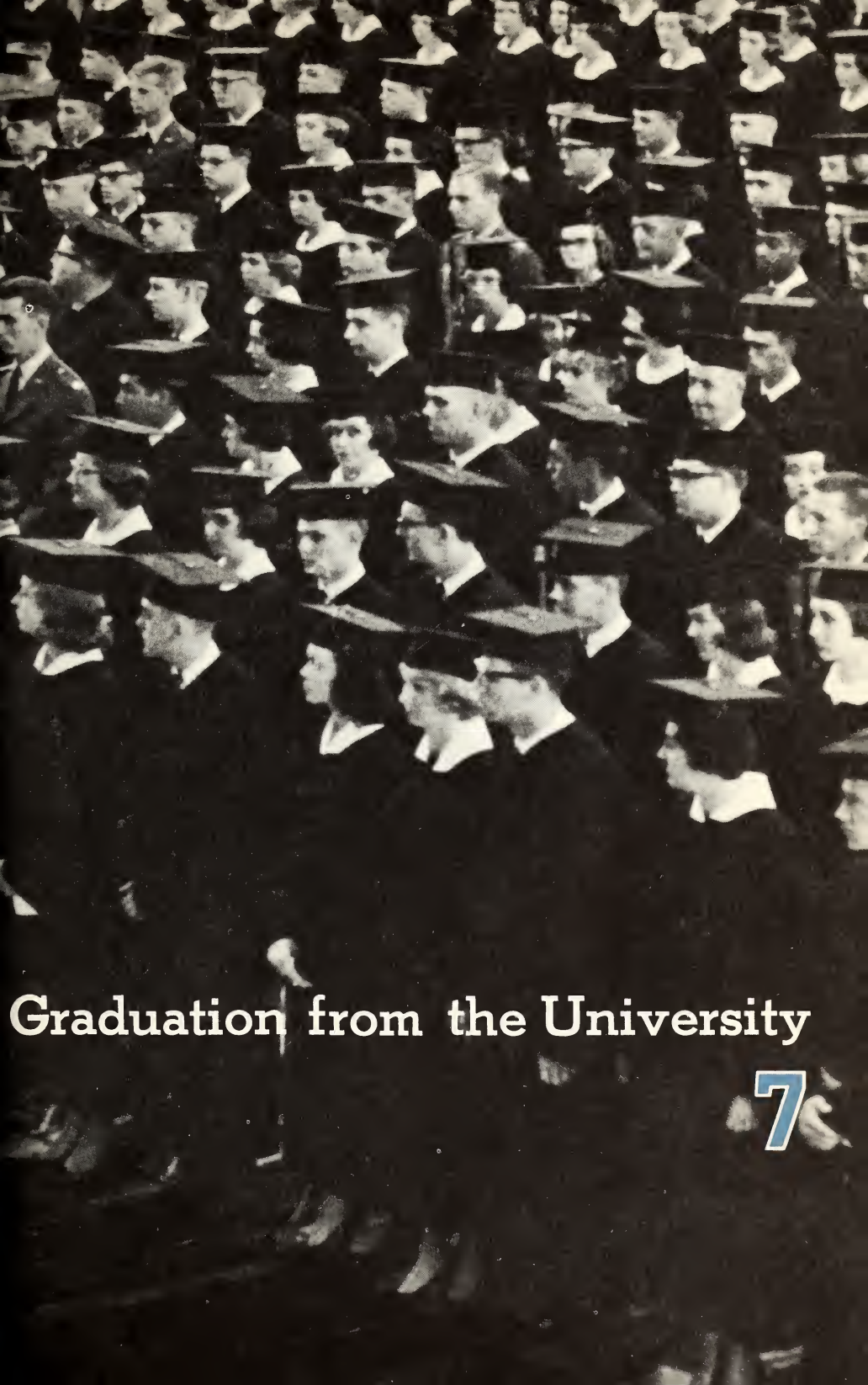
### Scholastic Standards.

*The Dean's List.* The Dean's List is composed of those students who complete a minimum of fifteen semester hours with a grade point average of at least 3.4.

*Retention Standards.* A minimum quality point average of 2.0 is required for graduation from the University. A student who has acquired 66 or more semester hours credit with less than a 2.0 average will be warned. Failure to bring the scholastic average up to 2.0 in a reasonable time will lead to exclusion from the University.

*Probation.* A student who makes less than a 1.5 quality point average for a semester will be placed on scholastic probation. If, during his next semester of attendance, the student's quality point average is again below 1.5, he will be suspended for an indefinite period of not less than one full semester. If, at the end of his suspension, he is readmitted to the University, he must remove probation during the first semester of his readmittance. A quality point average of 1.5 will remove the student from probation.

Any student who fails probation the second time is excluded from the University. A student who withdraws while on scholastic probation is presumed to have failed his probation.



Graduation from the University

7

## Degrees Offered.

The degrees conferred by Memphis State University are offered through The College of Arts and Sciences, The College of Business Administration, The College of Education, The Herff College of Engineering, The School of Law, and The Graduate School, as follows:

The College of Arts and Sciences: *Bachelor of Arts, Bachelor of Science, Bachelor of Science in Chemistry, Bachelor of Fine Arts, Bachelor of Music, Bachelor of Science in Medical Technology.*

The College of Business Administration: *Bachelor of Business Administration.*

The College of Education: *Bachelor of Science in Education.*

The Herff College of Engineering: *Bachelor of Arts in Applied Science, Bachelor of Engineering, Bachelor of Science in Industrial Technology.*

The Graduate School: *Doctor of Philosophy, Doctor of Education, Master of Arts, Master of Science, Master of Business Administration, Master of Science Teaching.*

The School of Law: *Juris Doctor.*

Courses required for all baccalaureate degrees are outlined in the section which follows; specific requirements for the individual degrees will be found in the sections of the catalog devoted to a description of the undergraduate colleges. Requirements for the Juris Doctor degree will be found in the Bulletin of The School of Law; requirements for graduate degrees will be found in The Bulletin of The Graduate School.

## General Requirements.

The following requirements have been established by the University for all undergraduate degrees offered. In addition, the student must meet the requirements for his specific degree as established by the college or department in which it is offered.

1. *English.* All students must complete successfully English 1101, 1102, 2101, 2102, or their equivalent. They are to be taken consecutively through the freshman and sophomore years, or until completed. No credit will be allowed on any course until all the preceding courses are completed. These courses may not be dropped from the student's schedule except under very special conditions.

2. *History.* All students must complete successfully History 2601 and 2602, or their equivalent. These courses are not open to students who have earned less than 25 semester hours credit.

3. *Science.* All students must complete successfully one year in a natural



or physical science; this requirement must be met with a two-semester sequence course in one science (biology, chemistry, geology, mathematics, or physics) or Geography 1101 and Geology 1101.

4. *Physical Education.* Four semesters of physical education activity courses are required of all students during the first four semesters in the University, except those who complete two years of Air Force ROTC of whom only two semesters of physical education are required. A student may take only one physical education activity per semester unless he is a physical education major or minor or a recreation major. All students (except Physical Education majors and minors and Recreation majors) are required to take Physical Education 1001 for one or two semesters; they may then complete their requirements by selecting activity courses numbered 1111 or above. No student other than a physical education major or minor or a recreation major may apply more than four semester hours of basic physical education to the minimum degree requirements of 132 semester hours. A student unable for medical or other reasons to take regular physical education is required to register for an adaptive class, or otherwise follow recommendations of the office of Health Services.

If the Memphis State University evaluation of the record of a transfer student shows no credit for or participation in physical activity courses, he must complete activity courses according to the following schedule:

With 1 through 12 semester hours of credit, four activity courses.

With 13 through 24 semester hours of credit, three activity courses.

With 25 through 39 semester hours of credit, two activity courses.

With 40 through 54 semester hours of credit, one activity course.

With 55 or more semester hours of credit, a student is not required to take physical education courses at Memphis State University. If the Memphis State University evaluation of the record of a transfer student shows credit for or participation in physical education, he must either (1) take physical education activity courses at Memphis State University to bring the total to four semesters (two semesters with four semesters of ROTC) or (2) complete requirements according to the above schedule, whichever is the smaller.

5. *English Proficiency.* Every student who enters Memphis State University on or after September 1, 1961, is required to pass the English proficiency examination administered by Memphis State. (A student who has taken all four of the required freshman and sophomore English courses—1101, 1102, 2101, 2102—at Memphis State University and has made a grade of C or better in each of them will be exempt from the examination.) A student becomes eligible to take the examination only after he has successfully completed 70 semester hours of work. Students who transfer to Memphis State University on or after September 1, 1961, with 70 or more semester hours are eligible immediately to take the examination. Anyone who enrolled at Memphis State University as a regular student prior to September 1961 will not be required to take the examination unless his program is reorganized under the provisions of the catalog of 1961 or later. Dates of the examinations are listed in the University Calendar. For further details see Assistant Professor Harry Cotham, Chairman of the Committee on English Proficiency, Room 471, Patterson Hall.

6. *Air Force ROTC.* All able-bodied, full-time male students under 26 years of age are required to complete successfully the first two years of Aerospace Studies during their first two years of attendance whether or not they intend to graduate. Veterans and six-months active duty trainees may be excused; excuse cards may be obtained during registration upon proof of military service. A transfer student entering Memphis State University

is required to take only the remainder of the general military course offered according to his academic classification. A transfer student admitted with 1 - 12 semester hours is required to take 4 semesters of ROTC; with 13 - 24 semester hours, 3 semesters; with 25 - 37 semester hours, 2 semesters; with 38 - 54 semester hours, 1 semester. A transfer student admitted to Memphis State with junior status (55 or more semester hours transferred in good status) is excused from the Aerospace Studies requirement. Students who have otherwise qualified for graduation in continuous part-time status or through The Evening Division are not required to complete the ROTC requirement and a waiver is not required.

7. *Quality Point Average.* To receive a bachelor's degree from any of the colleges in the University, a student must have a quality point average of at least 2.000 (i.e., two quality points for every semester hour attempted); for the method of computing the quality point average, see page 103. If for any reason a student offers more than 132 semester hours credit for graduation, the ratio of two quality points to one semester hour of credit must be maintained. To attain this standard the candidate must have a C average on all courses attempted in the University. Students who enter Memphis State University with advanced standing are required to maintain an average of C on all courses taken here.

8. *Residence Requirements.* A student will satisfy the residence requirements for graduation by completing, during his junior and/or senior year(s) a minimum of (1) thirty-six weeks of residence and (2) twenty-four semester hours of credit in residence. The final twelve semester hours must be taken in residence. (EXCEPTION: a student who has completed thirty-six weeks in residence during his junior and/or senior year(s) and who lacks no more than four semester hours toward completion of his degree requirements may earn these additional credits by residence at another approved institution or by acceptable correspondence or extension work.)

In computing residence requirements for full-time students the following formulae are used: The successful completion of one semester as a full-time student—i.e., one registered for a minimum of twelve semester hours—gives residence credit of eighteen weeks. The successful completion of one summer term as a full-time student—i.e., one registered for a minimum of six semester hours—gives residence credit of six weeks.

In computing residence requirements for part-time students the following formulae are used: Each semester hour earned in a regular semester gives residence credit of one and one-half weeks, up to a maximum credit of eighteen weeks. Each semester hour earned during a summer term gives residence credit of one week, up to a maximum credit of six weeks.

## Graduation With Distinction.

Students who have fulfilled all graduation requirements, who have completed a minimum of sixty semester hours at Memphis State University prior to their final semester, and who have been in residence for a minimum of four semesters prior to their final semester are eligible for designation as honor graduates. Those who have a quality point average of 3.0 and less than 3.5 will be graduated *cum laude*; those who have a quality point average of 3.5 and less than 4.0 will graduate *magna cum laude*; those who have a quality point average of 4.0 will be graduated *summa cum laude*. (In computing averages for honors, the grades of only the first semester of the graduating year will be included.)



A transfer student, in order to be eligible, must have made the required average on all work taken at Memphis State University and must, in addition, have an over-all average which meets the honors requirements; the final average may in no instance be higher than that made at Memphis State University.

Students who already hold a baccalaureate degree are not eligible for these distinctions.

### Deferred Graduation.

A student is ordinarily allowed to graduate under the requirements of the catalog of the year in which he enters the University. If a student begins work on a degree and fails to complete the requirements, he must, after seven years from the date he entered, reorganize his degree plan to conform to the current catalog. Time spent on active military duty is not considered a part of this seven-year period.

### Pre-Professional Degree Program.

A student who completes six semesters of undergraduate work before entering certain professional schools may, upon evidence of satisfactory completion of the first year of work in the professional school, be granted a baccalaureate degree from Memphis State University, provided that all the following provisions are met *before the student enrolls in the professional school*:

1. Formal application for his Memphis State University degree must be made to the dean of the college in which the student is enrolled.
2. The choice of a professional school must be approved in writing by the dean of the college in which the student is enrolled.
  - a. The minimum requirements for entrance to professional school must be sixty semester hours of undergraduate work.
  - b. The professional school must be accredited by the recognized national association in its field or must be an integral part of a university accredited by the appropriate regional association.
3. The last two semesters of pre-professional work must be done at Memphis State University.
4. The candidate must complete 99 semester hours in a pre-professional curriculum.
5. The candidate must complete, in his pre-professional curriculum, at least 24 semester hours in courses numbered above 2999, including at least 6 semester hours in his major field.
6. The candidate must meet all freshman and sophomore requirements of the degree curriculum.
7. The candidate must complete a minimum of 24 semester hours in his major area and 18 semester hours in his minor area.

The candidate in the pre-professional degree program should notify the dean of his college of his intentions no later than the

beginning of his sophomore year and should, with the guidance of his adviser, plan his program at that time.

### Second Bachelor's Degree.

A student who has completed the requirements for one bachelor's degree may receive a second bachelor's degree upon the completion of the curriculum prescribed for the second degree, provided that the work completed includes at least twenty-four semester hours in residence over and above the total number of hours completed for the first degree. The student will be governed by the provisions of the catalog in effect at the time he re-enters the University for work toward the second degree.

### Requirements for Teacher Certification.

An undergraduate student at Memphis State University who wishes to receive a certificate to teach in the elementary or secondary schools of Tennessee must (1) file an application for admission to the teacher education program with the Dean of The College of Education; (2) complete successfully all of the University requirements for a baccalaureate degree; and (3) complete successfully the courses outlined in Sections I, II, and III, below. Applications for admission to the teacher education program cannot be considered until the student has completed a minimum of one and one-half years of college work to the satisfaction of the faculty of The College of Education; for further details, see page 159.

Graduate, special, and transfer students who wish certification should confer with the Director of Certification concerning their individual requirements, particularly the credit to be allowed on courses taken elsewhere or at an earlier time.

#### I. PROFESSIONAL EDUCATION (27-33 semester hours)

Education 2011, 2111, 3121, and the courses in *one* of the following groups:

For the elementary certificate: Education 3241, 3251, 3261, 3271, 4242, and 4821 (9 semester hours), for a total of 33 semester hours.

For the secondary certificate: Education 4441, 4841 (9 semester hours), an appropriate secondary schools methods course, and one elective applicable for secondary school teachers, for a total of 27 semester hours.

#### II. GENERAL EDUCATION (45 semester hours)

*(Courses taken to meet the requirements of this section may, if applicable, be used to meet the requirements outlined in Section III, below.)*

English 1101, 1102, 2101, 2102.

Health 1102.

History 2601, 2602.

Mathematics 1181 for elementary certification; for secondary certification Mathematics 1111 or any higher-numbered mathematics course excluding Mathematics 1201 (Basic Mathematics).

Speech 2911 (for elementary certificate); or Speech 1011, 1211, 1311, or 1411 (for secondary certificate).

Science: 9 semester hours (including one two-semester sequence course) in two of the following sciences: biology; chemistry; Geography 1101, 4111, 4121, 4122, 4131; geology; physics. (P. E. majors may take P. E. 3703 for second area).

One course (3 semester hours) in one of the following social sciences: anthropology, economics, geography (other than the earth science courses listed above), political science, and sociology.

One course in the humanities to be chosen from one of the following departments: Art, Classical Languages, Modern Languages (sophomore or above), Music, and Philosophy.

One of the following courses: Home Economics 1101, Psychology 1101, Sociology 1111.

### III. SPECIFIC SUBJECT MATTER ENDORSEMENT

(Choose A, B, C, D, or E, or any combination of these\*)

*(Courses taken to meet the requirements of Section II, above, may, if applicable, be used to meet any part of the requirements of this section.)*

#### A. CORE CURRICULUM (82 semester hours)

Endorsement for core curriculum requires 82 semester hours distributed over the broad fields of language arts, social studies, science, library service, and others. For specific requirements the student should consult the chairman of the Department.

#### B. ELEMENTARY CERTIFICATE (58 semester hours)

Art 1101, 3411.

Biology 2001, 2002.

Geography 2301, 2311.

Health 3306.

History 1301, 3900.

Library Service 3111.

Mathematics 1182, 2581.

Music Education 3231, 3232.

Physical Education 1241, 3806.

Physical Science 1031, 1032.

Political Science 2211.

#### C. SPECIAL EDUCATION

To receive a certificate in special education, the student must have completed 45 semester hours of general education and the following requirements:

##### 1. Crippling and Special Health Conditions (15 semester hours)

Special Education 4151, 4162, 4171, 4172, 4882.

Completion of the requirements for the elementary or secondary certificate, including Education 4821, or 4841.

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\*The student whose major is secondary education must complete requirements for certification in two or more teaching areas with a combined minimum of 36 semester hours.

2. Educable Mentally-Retarded (18 semester hours)  
     Special Education 4151, 4162, 4163, 4164 (or 4165), 4881  
     Education 5551 or 7651  
     Completion of the requirements for the elementary or secondary certificate.
3. Speech and Hearing (Speech Pathology and Audiology) (51 semester hours)  
     Special Education 4151  
     Education 2011, 2111, 3121  
     Three of the following courses: Education 3821, 4012, 4112, 4131, 5511  
     Speech 2611, 2621, 2631, 3631, 3641, 3651, 3661, 4601, 4602 and 4671.
4. Multiple Disabilities (including cerebral palsy) (27 semester hours)  
     Special Education 4151, 4162, 4163, 4171, 4172, 4881 (or 4882).  
     Education 4242 and 5511 (or 7651)  
     Completion of the requirements for the elementary or secondary certificate, including Education 4821 or 4841, and not less than six semester hours in psychological foundations (satisfied by Education 2111 and 3121).  
     Speech 2621.

#### D. KINDERGARTEN THROUGH GRADE 3

To receive a certificate in kindergarten—grade 3, the student must complete the requirements for the elementary certificate and, in addition, must complete Education 3211, 3411, and 4811.

#### E. SECONDARY CERTIFICATE (Choose one or more endorsements)

1. ART (24 semester hours)  
     Art 1101, 1201, 1204, 1311, 1314, 3161, 3411, 3531.
2. ARTS: FINE AND INDUSTRIAL (33 semester hours)  
     Art 1101, 1201, 1204, 3161, 3411.  
     Industrial Technology: 18 semester hours in industrial technology courses, with not less than 6 semester hours in each of three of the following areas: drafting, woodwork, metalwork, electricity, crafts, mechanics.
3. BUSINESS  
     All applicants for certification in business subjects are required to complete (a) a group of basic courses and (b) additional courses for endorsement in one or more specific fields; the same course may be applied in both areas.
  - a. Basic requirements (18 semester hours)  
     Accounting 2010, 2020.  
     Economics 2110, 2120.  
     One course from each of two of the following areas:  
         Management 1010, 3010; Secretarial Science 3510, 3520; Mathematics 2291.
  - b. Specific endorsement field (choose one or more)



- (1) Bookkeeping (10 semester hours)  
Accounting 2010, 2020, 2720, and one additional upper-division course in accounting.
- (2) Business Arithmetic (6 semester hours)  
Mathematics 1211 and 2291
- (3) Business English (3 semester hours)  
Secretarial Science 3510 or 3520
- (4) Business Law (6 semester hours)  
Management 3010, 3020
- (5) Business machines (3 semester hours)  
Management 2711 or Secretarial Science 4270.
- (6) Consumer education (3 semester hours)  
Economics 3330 or Home Economics 4103
- (7) Economics (12 semester hours)  
Economics 2110, 2120, and two additional upper-division courses (6 semester hours) in economics
- (8) General business (9 semester hours)  
Management 1010, 3010; and a minimum of 3 semester hours in mathematics, the specific courses to be chosen in conference with the adviser
- (9) Office and clerical practice (3 semester hours)  
Secretarial Science 4320, or 4330, or 4400, or 4401, or 4410, or Management 3750.
- (10) Salesmanship (6 semester hours)  
Marketing 3010, 3410
- (11) Secretarial practice (15 semester hours)  
Endorsement in office and clerical practice, shorthand, and type-writing
- (12) Shorthand (6 semester hours)  
Six semester hours in shorthand, including one upper-division course
- (13) Typewriting (6 semester hours)  
Six semester hours in typewriting, including one upper-division course

#### 4. DISTRIBUTIVE EDUCATION

Six hours in distributive education

Ten semester hours in Marketing and Business Administration

Verified practical experience in a distributive occupation (or Marketing 4991)

#### 5. ENGLISH (18 semester hours in upper-division courses)

English 3214; 3221 or 3222 or 3223; 3321; 3322; 3501; 4232 or 4233 \*

In addition to 18 semester hours in the required advanced English courses, it is highly recommended that the student have 3 semester hours credit chosen from modern or contemporary literature: English 3342, 4242, 4252, 4351, 4441

#### 6. FOREIGN LANGUAGE (18-24 semester hours)

Endorsement may be obtained in French, German, Latin, and/or Spanish; the specific courses to meet certification requirements must be

selected in conference with the chairman of the department in which the language is offered. Semester hour requirements are as follows:

If two or more units of one foreign language were taken in high school: 18 semester hours in that language.

If fewer than two units were taken in high school: 24 semester hours in one language.

(If a student has had two or more units in each of two foreign languages in high school, he may be certified in both languages if he completes a total of 30 semester hours in these same languages, with a minimum of 12 semester hours in each.)

7. HEALTH INSTRUCTION (24 semester hours)

Health 1202, 2102, 3102, 3202, 4802; Home Economics 2202.

Biology 1631, 1632.

8. HEALTH AND PHYSICAL EDUCATION

*For Men* (29 semester hours)

Health 1102; 2102 or 3502, 3102, 3202 (12 semester hours)

P. E. 1101, 1251, 1311, 1321 (4 semester hours)

P. E. 2103 or 2203 or 2303 or 2403, 3203, 3303, 3503, 3603, and 4503 (13 semester hours)

Biology 1631, 1632.

*For Women* (31 semester hours)

Health 1102, 2102, 3102, 3202 (12 semester hours)

P. E. 1101, 1221, 1251, 1291, 1321 (5 semester hours)

P. E. 3103, 3203, 3303, 3503, 3603, 4503 (14 semester hours)

Biology 1631, 1632.

9. HOME ECONOMICS (non-vocational) (30 semester hours)

Home Economics 1105, 2102, 2103, 2202, 2205, 3302, 3305, 4101, 4103, 4104.

10. INDUSTRIAL ARTS (24 semester hours)

Twenty-four semester hours in industrial technology courses, including at least 12 semester hours in one of the following areas of specialization: drafting, woodwork, metalwork, electricity, plus Technology 1511 and 2911.

11. LIBRARY SERVICE (12-18 semester hours)

Endorsement may be obtained as either (a) librarian or (b) teacher-librarian.

a. Librarian: Library Service 3111, 3121, 3131, 4231, 4232, 4331

b. Teacher-librarian: Library Service 3131, 4231, 4331, and one of the following courses: Library Service 3111, (for elementary certification) or Library Service 3121 (for secondary certification).

12. MATHEMATICS (19 semester hours)

Mathematics 1212, 1321, 2321, and 6 additional semester hours in mathematics courses.

13. MATHEMATICS AND PHYSICAL SCIENCE (51-53 semester hours)

Mathematics 1212, 1321, and 5 additional semester hours in mathematics courses.

Chemistry 1111, 1112.

Physics 2111, 2112 (or Physics 2511, 2512)

Physical geography or geology: 8 semester hours

Mathematics and/or physical sciences electives: 14 semester hours

14. MUSIC (39-45 semester hours)

All applicants for certification in music are required to complete

- (a) a group of basic courses and (b) additional courses for endorsement in a specific field.

- (a) Basic requirements (30 semester hours)

Music 1032 (and 1012), 1033 (and 1013), 2031 (and 2011), 3235

One of the following courses: Music 1041, 1131, 3131, 3132.

Applied music: 12 semester hours (in class instruction or individual lessons) approved by the chairman of the Department of Music.

- (b) Specific field of endorsement (Choose either or both)

- (1) School music (9 semester hours)

Music 3236.

Music Education 1311, 1711, 1911, and 4231.

- (2) Instrumental music (15 semester hours)

Music 3035, 3236.

Music Education 4232.

Applied music (on one instrument): 6 semester hours

15. SCIENCE

Endorsement may be obtained in (a) biology, (b) chemistry, (c) physics, (d) general science, and/or (e) a combination of sciences.

- (a) Biology (29 semester hours)

Biology 1200, 1600 (9 semester hours)

Biology, Genetics 3070 (4 semester hours)

Biology, Bacteriology 3500 (4 semester hours)

Biology, Ecology 3050 (4 semester hours)

Chemistry 1111, 1112 (8 semester hours)

- (b) Chemistry (28 semester hours)

Chemistry 1111, 1112 (8 semester hours)

Chemistry 3311, 3312 (8 semester hours)

Chemistry, Analytical (4 semester hours)

Physics (8 semester hours)

- (c) Physics (28 semester hours)

Physics 2111, 2112 or 2511, 2512 (8-10 semester hours)

Physics electives (12-10 semester hours)

Chemistry (8 semester hours)

- (d) General Science (29 semester hours)

Chemistry 1111, 1112 (8 semester hours)

Biology 1200, 1600 (9 semester hours)

Physics 1111, 1112 or 2111, 2112 (6-8 semester hours)

Physics 4050 (3 semester hours)

Earth Science (3 semester hours)

- (e) Broad field of science (32 semester hours)

If a student earns a total of 32 semester hours or more in three of the following sciences, he may receive endorsement for each one

in which he has earned a minimum of 12 semester hours: biology, chemistry, geology, physics.

16. SOCIAL STUDIES

Endorsement may be obtained in (a) economics, (b) geography, (c) government, (d) history, (e) sociology, and/or (f) a combination of two or more of these in the broad field of social studies.

a. Economics (15 semester hours)

Economics 2110, 2120, and 9 additional semester hours in economics courses.

b. Geography (15 semester hours)

Geography 2301, 2311, and 9 additional semester hours in geography courses.

c. Government (15 semester hours)

Political Science 1101, 1301, 2211, 2221, and 3 additional hours in political science courses.

d. History (21 semester hours)

History 1301, 1302, 2601, 2602, and 9 additional semester hours which must include a two-semester upper-division sequence course in history.

e. Sociology (15 semester hours)

Sociology 1111 and 12 additional semester hours in sociology courses.

f. With a total of 30 or more semester hours earned in social science courses (including a minimum of 15 semester hours in history) endorsement may be earned for each area in which one has a minimum of 12 semester hours credit. Required courses for each area:

History 1301, 1302 and 9 hours of history electives

Economics 2110, 2120, and 6 hours of economics electives

Geography 2301, 2311, and 6 hours of geography electives

Political Science 2211, 2221, and 6 hours of political science electives

Sociology 1111, and 9 hours of electives in sociology

17. SPEECH (27 semester hours)

Speech 1211, 1311, 1411, 1551, 2321, 2511, 4921, and 4922.

18. VOCATIONAL AND DISTRIBUTIVE EDUCATION

(See Distributive Education)

*The College of Business Administration (building opposite page) offers majors in five departments and has one of the largest enrollments in the University.*





8

Colleges, Schools and Divisions

# THE COLLEGE OF ARTS AND SCIENCES

WALTER RHEA SMITH, B.A., M.A., Ph.D., *Dean*  
*Room 217, Administration Building*

**T**HE College of Arts and Sciences has three distinct functions within the framework of the University.

1) Its primary function is to offer a strong liberal arts program designed to help the student prepare himself for life in his own cultural setting by acquiring the means and the desire continually to enlarge his intellect and deepen his insights. "The purpose of education," wrote John Stuart Mill, "is to make capable and cultivated human beings. Men are men before they are lawyers, physicians, or manufacturers; and if you make them capable and sensible men, they will make themselves capable and sensible lawyers and physicians." It is the earnest belief of The College of Arts and Sciences that the essential preparation for any profession or vocation is a thorough foundation in those major fields of human interest which are included in the humanities, the natural sciences, and the social sciences. The program of liberal studies at Memphis State University aims to provide the student with a store of factual knowledge; to introduce him to varying sets of principles; to stimulate him to think about and to evaluate these facts and principles; and to encourage him to order his own affairs and those of his society with the talent, insight, and discrimination which he develops.

2) The College of Arts and Sciences offers this kind of education, not only to the candidates for its own degrees, but also to the students of other colleges of the University, all of whose degree plans call for courses in the liberal arts.

3) A third important function of the college is to offer preparatory courses for students interested in careers in medicine, dentistry, nursing, teaching, law, and other professions; specific pre-professional programs, designed to prepare students to qualify for admission to professional schools, are available.

## Degrees Offered.

The College of Arts and Sciences offers six degrees: the Bachelor of Arts, the Bachelor of Science, the Bachelor of Fine Arts, the Bachelor of Music, the Bachelor of Science in Chemistry, and the Bachelor of Science in Medical Technology. Requirements for these degrees are outlined in the section beginning on page 125.

## Organization of the College.

*Departments.* The College of Arts and Sciences comprises seventeen departments: Art, Biology, Chemistry, Classical Languages, English, Geography, History, Journalism, Mathematics, Modern Languages (French, German, Italian, Portuguese, Russian, Spanish), Music, Philosophy, Physics, Political Science, Psychology, Sociology and Anthropology, and Speech and Drama. Requirements for the majors and minors offered by these departments are listed in the section beginning on page 133.

*Concentration groups.* The various offerings of the seventeen departments of The College of Arts and Sciences are organized into three concentration groups:

**HUMANITIES:** art, English, French, German, Greek, history, Italian, journalism, Latin, mathematics, music, philosophy, psychology, Russian, Spanish, speech.

**NATURAL SCIENCES:** biology, chemistry, geology (administered by The Herff College of Engineering), physical geography, mathematics, physics.

**SOCIAL SCIENCES:** anthropology, economics (administered by The College of Business Administration), geography (other than physical), history, philosophy, political science, psychology, sociology.

*Lower and Upper Divisions.* The Lower Division comprises the freshman and sophomore years, the first four semesters of undergraduate work; courses in the lower division are numbered from 1000 through 2999. The Upper Division comprises the junior and senior years, the last four semesters of undergraduate work; courses offered in the Upper Division are numbered above 2999. Students who have completed the required number of hours and the required residence to be classified as juniors, but who have not completed their basic requirements in the Lower Division, must schedule these uncompleted requirements during the first semester in which such courses are available.

## Admission.

All applicants for admission to The College of Arts and Sciences must meet the general University requirements listed in the section beginning on page 70. In addition, students who plan to become candidates for degrees in The College of Arts and Sciences must meet the following requirements:

*Bachelor of Arts, Bachelor of Science, Bachelor of Science in Chemistry.* In order to be admitted to the Lower Division of The College of Arts and Sciences as a candidate for one of the preceding degrees the student must have graduated from an approved high school with at least 15 units, divided as follows: English, at least 3 units; mathematics, at least 2 units; foreign language, at least 2 units in one language; the remainder to be chosen from



other high school units, with not more than 3 from vocational subjects. It is strongly urged that the elective units be concentrated in the humanities, the natural sciences, and the social sciences. (If the student offers only one unit in mathematics, he may be admitted to the Lower Division, but will be required to complete successfully Mathematics 1181 or 1201.)

*Bachelor of Fine Arts, Bachelor of Music, and Bachelor of Science in Medical Technology.* In order to be admitted to the Lower Division of The College of Arts and Sciences as a candidate for one of the preceding degrees, the student must have graduated from an approved high school with at least 15 units, divided as follows: English, at least 3 units; mathematics, at least 2 units; the remainder to be chosen from other high school units, with not more than 4 from vocational subjects. It is strongly urged that the elective units be concentrated in the humanities, the natural sciences, and the social sciences. (If the student offers only one unit in mathematics, he may be admitted to the Lower Division, but will be required to complete successfully Mathematics 1181 or 1201.)

### Residence Requirements.

University residence requirements are explained in detail on page 110. A transfer student in The College of Arts and Sciences must earn at least 6 semester hours in residence in his major subject and at least 3 semester hours in his minor.

### Foreign Language Regulations.

1. A student who has completed one or more units in high school in one foreign language may not receive credit at Memphis State University for the corresponding semester or semesters in that language (one high school unit is the equivalent of one semester.) For example, if a student has completed one unit of French in high school, he may not receive credit for French 1101; if he has completed four units of French in high school, he may not receive credit for French 1101, 1102, 2201, 2202.

2. A student may not receive credit for anything less than *two* semesters (six semester hours) in beginning courses (1101, 1102) in one foreign language. For example, he will receive no credit, elective or otherwise, for French 1101 unless he completes French 1102 or a higher numbered course in French; if he begins his study with French 1102, he will receive no credit for the 1102 unless he completes French 2201 or a higher numbered course in French. Credit will be allowed for a single semester's work in courses numbered above 1999.

3. Foreign-born students may receive credit for courses in their mother tongue and its literature only (1) for courses taken in



native institutions of college level, or (2) for upper-division courses taken at Memphis State University or in another English-speaking institution of approved standing.

4. Specific requirements in foreign languages for the degrees offered by The College of Arts and Sciences are as follows:

A. BACHELOR OF ARTS: three years (eighteen semester hours), or the equivalent, in one foreign language. (Greek 1101 and 1102 may be substituted for six semester hours of upper-division Latin; six semester hours of Latin may be substituted for six semester hours of upper-division Greek). If the student elects to continue the study of the same foreign language which he studied in high school, the following regulations apply:

- 1) If he had one unit of one foreign language in high school, he must complete 15 semester hours in courses numbered above 1101 in that language.
- 2) If he had two units of one foreign language in high school, he will fulfill the requirements with 12 semester hours in that language in courses numbered above 1999.
- 3) If he had three units of one foreign language in high school, he will fulfill the requirements with 9 semester hours in that language in courses numbered above 2201.
- 4) If he had four units of one foreign language in high school, he will fulfill the requirements with 6 semester hours in that language in courses numbered above 2999.

B. BACHELOR OF SCIENCE: two years (twelve semester hours), or the equivalent, in one foreign language. If the student elects to continue the study of the same foreign language which he studied in high school, the following regulations apply:

- 1) If he had one unit of one foreign language in high school, he must complete 9 semester hours in courses numbered above 1101 in that language.
- 2) If he had two units of one foreign language in high school, he will fulfill the requirements with 6 semester hours in that language in courses numbered above 1999.
- 3) If he had three units of one foreign language in high school, he will fulfill the requirements with 6 semester hours in that language in courses numbered above 2201.
- 4) If he had four units of one foreign language in high school, he will fulfill the requirements with 6 semester hours in that language in courses numbered above 2999.

C. BACHELOR OF FINE ARTS, BACHELOR OF MUSIC, BACHELOR OF SCIENCE IN MEDICAL TECHNOLOGY: one year (six semester hours) in one foreign language. If the student elects to continue the study of the same foreign language he studied in high school, the following regulations apply:

- 1) If he had one unit of one foreign language in high school, he will fulfill the requirements with 6 semester hours in that language in courses numbered above 1101.
- 2) If he had two units of one foreign language in high school, he will fulfill the requirements with 6 semester hours in that language in courses numbered above 1999.

- 3) If he had three units of one foreign language in high school, he will fulfill the requirements with 6 semester hours in that language in courses numbered above 2201.
- 4) If he had four units of one foreign language in high school, he will fulfill the requirements with 6 semester hours in that language in courses numbered above 2999.

D. BACHELOR OF SCIENCE IN CHEMISTRY: German 1101, 1102, 2201, and 2203.

## Pre-Professional Training.

Standing committees of the faculty are available to advise students interested in preparing for careers in various professional areas; committee members, representing departments of the University in which pre-professional training is given, advise students concerning specific programs required by the various professional schools. A student who completes successfully six semesters of undergraduate work before entering an accredited professional school may, upon presentation of evidence of satisfactory completion of the first year of professional education, be granted a baccalaureate degree from Memphis State University, provided that the requirements set forth in the pre-professional degree program described on page 111, are met. The advisory committees are as follows:

*Pre-Medical*—This committee advises students interested in careers in medicine, dentistry, nursing, pharmacy, optometry, veterinary medicine, medical technology, and related fields in the health sciences.

*Pre-Law*—In general, accredited law schools have not adopted specific requirements for pre-law education; they do, however, emphasize certain courses as being conducive to the development of the broad cultural background necessary for the successful study of law. Students enrolling in The College of Arts and Sciences for their pre-law training are encouraged to enter immediately one of the degree programs offered by the college.

*Pre-Architecture*—The University offers a two-year pre-architecture program, including specialized courses designed for students who plan to enter schools of architecture as well as for those whose career plans require the completion of such courses.

*Pre-Social Work*—The student who wishes to prepare for admission to a graduate school of social work or who plans to go directly from college into a social work program will complete the requirements for the baccalaureate degree with a major in either sociology or psychology; specialized courses will be chosen in conference with the adviser.

## Teacher Preparation.

Students enrolled in a degree program of The College of Arts and Sciences who wish to prepare themselves for teaching careers in the secondary schools of Tennessee may meet the state certification requirements while pursuing their chosen majors. Detailed certification requirements are outlined in the section beginning on page 112. Application to enter the program of teacher preparation must be made in the office of the dean of The College of Education.

## Degree Requirements.

### BACHELOR OF ARTS

To qualify for the degree of Bachelor of Arts the student must complete a minimum of 132 semester hours with a quality point average of 2.0 (on a scale in which the grade of A has a quality point value of 4; B, 3; C, 2; and D, 1). Of the 132 semester hours required for graduation, at least 45 semester hours must be in courses from the Upper Division (those numbered above 2999). Not more than 42 semester hours in any one subject will be counted toward a degree. Not more than 18 semester hours (excluding required physical education and AF-ROTC courses) may be taken outside The College of Arts and Sciences except for courses required for either (1) the minor *or* (2) teacher certification, but not both. Detailed requirements are as follows:

English 1101, 1102, 2101, 2102.

Foreign language: 18 semester hours, or the equivalent, in one foreign language; for details see page 122.

History 2601, 2602.

One semester of one natural science, and one two-semester sequence in a second natural science.

(Courses from which these must be selected are Biology 1200, 1600; Chemistry 1051, 1052; or Chemistry 1111, 1112; Geography 1101, Geology 1101; Geology 1101, 1201, (not more than two semesters may be taken in geography and/or geology courses to meet this requirement); Physics 1111, 1112, or 2111, 2112, or 2511, 2512.

One semester of one social science, and one two-semester sequence in each of two other social sciences. (15 semester hours)

(Courses from which these must be selected are Anthropology 1100, 1200; Economics 2110, 2120; Geography 2301, 2311; History 1301, 1302; Political Science 2211, 2221; Psychology 1101, 1102; Sociology 1111, 2112.

Mathematics 1111, 1112; or 1211, 1212; or 1321, 2321; or Philosophy 1111, 1611.

Two of the following courses: Art 1101; Music 1131; Speech 1551.

Air Force ROTC (for men): for details see page 109.

Physical Education: 2 to 4 semester hours; for details see page 109.

Completion of requirements for any major offered in The College of Arts and Sciences.

Completion of requirements for a minor in any subject (other than the major) offered by any department of the University.

Electives to bring the total to 132 semester hours.

### BACHELOR OF SCIENCE

The Bachelor of Science degree may be awarded only to students majoring in one of the following disciplines: anthropology, biology, chemistry, geography, geology, mathematics, physics, or psychology. Students majoring in anthropology, geography, or psychology (for the Bachelor of Science degree) must minor in either biology, chemistry, mathematics, or physics.

To qualify for the degree of Bachelor of Science the student must complete a minimum of 132 semester hours with a quality point average of 2.0 (on a scale in which the grade of A has a quality point value of 4; B, 3; C, 2; and D, 1). Of the 132 semester hours required for graduation at least 45 semester hours must be in courses from the Upper Division (those numbered above 2999). Not more than 18 semester hours (excluding required physical education and AF-ROTC courses) may be taken outside The College of Arts and Sciences except for courses required for either (1) the minor or (2) teacher certification, but not both. Detailed requirements are as follows:

English 1101, 1102, 2101, 2102.

Foreign language: 12 semester hours, or the equivalent in one foreign language; for details see page 122.

History 2601, 2602.

Mathematics 1111, 1112; 1211, 1212; or 1321, 2321.

One of the following two-semester sequences: Biology 1200, 1600; Chemistry 1051, 1052; Chemistry 1111, 1112; Geology 1101, 1201; Physics 2111, 2112; Physics 2511, 2512.

Six semester hours from each of two of the following areas: anthropology, economics, geography (excluding earth science courses and Geography 3501, 3502, and 3511), history (excluding History 2601 and 2602), philosophy, political science, psychology, and sociology.

Two of the following courses: Art 1101; Music 1131; Speech 1551.

Air Force ROTC (for men): for details see page 109.

Physical Education: 2 to 4 semester hours; for details see page 109.

Completion of the requirements for a major in one of the following disciplines: anthropology, biology, chemistry, geography, geology, mathematics, physics, or psychology.

Completion of the requirements for a minor in any subject (other than the major) offered by any department in the University. **EXCEPTION:** Students majoring in anthropology, geography, or psychology (for a Bachelor of Science degree) must minor in either biology, chemistry, mathematics, or physics.

Electives to bring the total to 132 semester hours.



## BACHELOR OF SCIENCE IN CHEMISTRY

To qualify for the degree of Bachelor of Science in Chemistry, the student must complete a minimum of 132 semester hours with a quality point average of 2.0 (on a scale in which the grade of A has a quality point value of 4; B, 3; C, 2; and D, 1). Of the 132 semester hours required for graduation, at least 45 semester hours must be in courses from the Upper Division (those numbered above 2999). Not more than 18 semester hours (excluding required physical education and AF-ROTC courses) may be in courses outside The College of Arts and Sciences except for courses required for teacher certification. Detailed requirements are as follows:

English 1101, 1102, 2101, 2102.

Foreign language: German 1101, 1102, 2201, and 2203.

History 2601, 2602.

Mathematics 1212, 1321, 2321, 2322.

Physics 2111, 2112 (by permission); or 2511, 2512.

Chemistry 1111, 1112, 2200, 3311, 3312, 3411, 3412, 4200, 4210, 4220, 4310, 4900, 4910.

One semester of one social science and one two-semester sequence in another social science. (Courses from which these must be selected are Anthropology 1100, 1200; Economics 2110, 2120; Geography 2301, 2311; Political Science 2211, 2221; Psychology 1101, 1102; Sociology 1111, 2112).

One of the following courses: Art 1101; Music 1131; Speech 1551.

Air Force ROTC (for men only); for details see page 109.

Physical Education: 2 to 4 semester hours; for details see page 109.

Completion of the requirements for a minor in biology, physics or mathematics.

Electives to bring the total to 132 semester hours.

## BACHELOR OF FINE ARTS (IN ART)

The Bachelor of Fine Arts in Art is a professional degree, the requirements for which provide the student with a greater opportunity for specialization in art than he has under the other baccalaureate programs; for this degree a total of 142 semester hours is required for graduation, 90 of which must be in art courses. A minimum grade of C is required in all art courses; the student must maintain an overall quality point average of 2.0 (on scale in which a grade of A has a quality point value of 4; B, 3; C, 2; and D, 1). The specific degree requirements are divided into five groups: (1) general education (2) basic art courses (3) courses in one of the six concentration areas (4) elective courses in art and (5) elective courses other than art (but within The College of Arts and Sciences) to bring the total to 142 semester hours.

(1) General education courses:

English 1101, 1102, 2101, 2102.

Foreign language: for details see page 122.

History 2601, 2602.

One two-semester sequence course (six semester hours or more) in biology, chemistry, geology, mathematics, or physics.

Air Force ROTC (for men only); for details see page 109.

Physical Education (2 or 4 semester hours); for details see page 109.

(Art education majors must also complete all general education courses outlined in section II of the Requirements for Teacher Certification as listed on pages 112.

(2) Basic art courses:

Art 1311, 1314, 2313 (Drawing).

Art 1201, 1204, 2201, 2202 (Design).

Art 2101, 2102 (Art History).

Art 4611 (Seminar).

Art History: 12 semester hours in upper-division art history courses. (Interior Design majors are required to take Art 3101, 3102); Art Education majors are required to take *only* Art 3161 and 3162).

(3) Concentration areas (choose a, b, c, d, e, or f).

a. Painting:

Art 2314, 2321, 4321, 4322 (Drawing and Painting).

Art 2351, 3351, 3352 (Graphics).

Art 3333 and 3334 (Casein).

Art 3331, 3332, 4331, 4332 (Oil).

b. Graphic Techniques:

Art 2314, 2321, 4321, 4322 (Drawing and Painting).

Art 2351, 3351, 3352, 4351, 4352 (Graphics).

Art 3333 and 3334 (Casein).

Art 3331, 3332 (Oil).

c. Commercial Art:

Art 1211 and 2213 (Lettering and Layout).

Art 2311 (Perspective).

Art 3221, 3222, 4221, 4222 (Advertising Design).

Art 3223 and 3541 (Packaging and Display).

Art 4321, 4322 (Drawing and Painting).

Art 4341, 4342 (Illustration).

d. Interior Design:

Art 2311 (Perspective).

Art 2231, 2232, 3231, 3232, 4231, 4232 (Interior Design).

Art 4233, 4234 (Interior Rendering).

Art 4235, 4236 (Interior Design Research).

Art 4551, 4552 (Working Drawings).

e. Sculpture:

Art 2511, 3511, 3512, 4511, 4512 (Sculpture).

Art 2314, 2321, 4321, 4322 (Drawing and Painting).

Art 3521, 3522 (Ceramics).

Art 3513, 3514 (Ceramic Sculpture).

f. Art Education:

Art 2321, 3521 (Painting and Ceramics).

Art 3411, 3413, 3421, 4421 (Art Education).

Art 3424 (Textiles).

Education 2011, 2111, 3121, 4821, 4841.

(4) Art electives: 9 semester hours.

(5) Elective courses other than art (but within The College of Arts and Sciences) to complete the total of 142 semester hours. These courses will be chosen by the student in consultation with his adviser and the chairman of the Department of Art.

### BACHELOR OF FINE ARTS (IN THEATRE)

The Bachelor of Fine Arts in Theatre is a professional degree, the requirements for which provide the student with a greater opportunity for specialization in theatre than he has under the other baccalaureate programs; for this degree a total of 142 semester hours is required for graduation, at least 98 of which must be in theatre courses. A minimum grade of C is required in all theatre courses; the student must maintain an overall quality point average of 2.0 (on a scale in which a grade of A has a quality point value of 4; B, 3; C, 2; and D, 1). The specific degree requirements are divided into five groups: (1) general education (2) basic theatre courses and complements (3) courses in one of the two concentration areas (4) performance and production internship in theatre and (5) elective courses in theatre to bring the total to 142 semester hours.

(1) General education courses:

English 1101, 1102, 2101, 2102.

Foreign language: 6 semester hours.

History 2601, 2602.

One two-semester sequence course (6 semester hours or more) in biology, chemistry, geology, mathematics or physics.

Air Force ROTC (for men only); for details see page 109.

Physical Education: 2 to 4 semester hours; for details see page 109.

(2) Basic theatre courses and complements:

Speech 1551, Introduction to Theatre (3).

Art 1101, Introduction to Art (3).

Speech 2511, 2512—Stagecraft (6).

Speech 1211, 1411, 2411, 2412—Voice and Interpretation (12).

Speech 2531, 2532—Acting (6).

Speech 2501, 2502—Movement (4).

Speech 3501—Theatre Lab (at least 2 semesters) (2).

Speech 3551, 3552—History of Theatre (6).

Art 2101, 2102—World Art (6).

- (3) Concentration areas (choose a or b):
- a. Performance.
    - Speech 3531, 3532, 4531, 4532—Acting (12).
    - Speech 3502, 3503, 4501, 4502—Movement (8).
    - Speech 3451, 4441—Interpretation (6).
    - Speech 3521, 3522—Directing (6).
    - Speech 4571—Playwriting (3).
    - Speech 2541—Stage Make-up (2).
  - b. Production:
    - Speech 3511, 3512—Stagecraft (6).
    - Speech 3521—Directing (3).
    - Speech 3561, 3562, 4563, 4564—Design (12).
    - Speech 4561, 4562—Costuming (6).
    - Speech 4511, 4512—Lighting (6).
    - Speech 4591—Theatre Management (3).
- (4) Production and Performance Internship:  
Usually 12 to 18 hours of Speech 4011 Production and Performance course. A one or two semester supervised internship will be served by the student in a professional, community or university theatre within the region (normally Front Street Theatre, Memphis Little Theatre or Memphis State University Theatre). A student may receive no more than 9 semester hours of credit each semester in the area of Performance and Production. Credit will vary with amount of time and responsibility involved. Internships may not be served before the summer after the junior year.
- (5) Theatre electives:  
Elective courses in theatre to complete the total of 142 semester hours.

### BACHELOR OF MUSIC

The Bachelor of Music is a professional degree, the requirements for which provide the student with a greater opportunity for specialization in music than he has under the other baccalaureate programs; as many as 92 of the 132 semester hours required for graduation may be in music. A minimum grade of C is required in all upper-division music courses; the student must maintain an overall quality point average of 2.0 (on a scale in which a grade of A has a quality point value of 4; B, 3; C, 2; and D, 1). The specific degree requirements are divided into five groups: (1) general education (2) basic music courses (3) courses in *one* of six concentration areas (4) music electives and (5) elective courses other than music and music education to bring the total to 132 semester hours.

Detailed requirements are as follows; figures in parentheses indicate semester hours credit.

- (1) General education courses:  
English 1101, 1102, 2101, 2102 (12).  
Foreign language: for details see page 122.



History 1301, 1302, 2601, 2602 (12).

One two-semester sequence course (six semester hours or more) in biology, chemistry, geology, mathematics, or physics.

Air Force ROTC (for men only); for details see page 109.

Physical Education (2 or 4); for details see page 109.

(2) Basic music courses:

Music 1041, Introduction to Music (4).

Music Theory I and II (16).

Music 3031, Counterpoint (3).

Music 3033, Form and Analysis (3).

Music 3235, Choral Conducting (3).

Music 3131, 3132, History of Music (6).

Music ensembles (8).

Individual instruction in piano, organ, voice, or orchestral instrument (8).

Piano proficiency (see page 273 for details).

(3) Concentration areas (choose a, b, c, d, e or f):

a. Instrumental music (piano, organ, string, or wind instrument).

Individual instruction in major instrument (8).

Recital.

Music 3035, Instrumentation (3).

Small Ensembles and Chamber Music (4).

b. Voice:

Individual instruction in voice (8).

Recital.

Individual instruction in piano (4).

Small Ensembles (opera workshop, madrigal group, etc.) (4).

Music 3236, Conducting and Score Reading (3).

Foreign language, in addition to the six semester hours required in the general education group (12).

c. Music Theory and Composition:

Music Education 1311, 1312, 1511, 1711, 1712, 1911, 1912.

(Class instruction in brass, percussion, strings, and woodwinds) (7).

Music 3021 and 3022, Canon and Fugue (4).

Music 3023, 3024, 4021, 4022, Composition I and II (8).

Music 3035, Instrumentation (3).

Recital or thesis.

d. Music History and Literature:

Music 4131, Comparative Arts (3).

Music 4132, Modern Music (3).

Music 4133, The Opera and Music Drama (3).

Music 4134, Piano History, Literature, and Pedagogy (3).

Art 2101, 2102, World Art I and II (6).

Art 3161, 3162, Art in America I and II (6).

English 3411, World Literature I (3).

Foreign language, in addition to the six semester hours required in the general education group (6).

Recital or thesis.

e. Music Education:

Music 3035, Instrumentation (3).

Music 3236, Conducting and Score Reading (3).

Materials and methods: courses to be selected with adviser's approval (6-9).

Applied music to meet certification requirements.

Courses in Education to meet certification requirements (24).

Courses in general education to meet certification requirements (15).

Recital.

f. Church Music:

Music Education 1311, 1711, 1911, class instruction in brass, string, and woodwind instruments (3).

Music 3035, Instrumentation (3).

Music 3236, Conducting and Score Reading (3).

Music 4135, 4136, Sacred Music I and II (6).

English 4461, Biblical Literature (3).

Two courses from the Department of Philosophy (6).

Recital or direction and public presentation of a cantata.

- (4) Music electives: at least six semester hours in upper-division music courses selected from a concentration area other than the one chosen for the major.
- (5) Elective courses other than music and music education to bring the total to 132 semester hours. These courses will be chosen by the student in consultation with his adviser and the chairman of the Department of Music.

### BACHELOR OF SCIENCE IN MEDICAL TECHNOLOGY

For students interested in careers in medical technology, The College of Arts and Sciences offers a three-year preparatory curriculum, the successful completion of which will qualify them to enter any school of medical technology approved by the American Medical Association Council on Medical Education. After completion of the curriculum in the school of medical technology, the student is eligible for examination and certification by the Registry of Medical Technologists of the American Society of Clinical Pathologists.

The University maintains an affiliation in Memphis with the Schools of Medical Technology of the Baptist Memorial Hospital and Methodist Hospital, both of which are accredited. Only those students who enroll in the School of Medical Technology of one of these hospitals can qualify for the degree of Bachelor of Science in Medical Technology from Memphis State University. Should a student decide to enter either of these schools after completing successfully the preparatory curriculum, he should apply directly

to the school of his choice nine to twelve months in advance of the time he wishes to enter. After the completion of his clinical year he may apply for the degree of Bachelor of Science in Medical Technology from this University. A student who wishes to pursue this degree plan must file a degree program with the Dean of The College of Arts and Sciences no later than the first semester of his sophomore year.

Specific requirements for the preparatory curriculum in medical technology (and the additional requirements for those working toward a baccalaureate degree) are as follows:

English 1101, 1102, 2101, 2102

Foreign language: see page 122 for details

History 2601, 2602

Psychology 1101 or Sociology 1111

Psychology 1102

Mathematics 1211 or Mathematics 1212

Biology 1200, 1600, 3500, 3070, 3800, 3730, 4440

Chemistry 1111, 1112, 2000 (or 2200), 3311, 3312

Philosophy 1111, 1611

Any two of the following: Art 1101, Music 1131, Speech 1551

Air Force ROTC (for men only); see page 109 for details

Physical Education: see page 109 for details

A curriculum schedule, showing the semester in which each of these courses should be taken, may be obtained from members of the Pre-Medical Advisory Committee.

*IMPORTANT NOTE: The preparatory curriculum in medical technology does NOT qualify a student for the three-year pre-professional degree program described on page 111 of this catalog. Only those students who enroll in the Schools of Medical Technology of the Baptist Memorial Hospital or the Methodist Hospital, both located in Memphis, can qualify for the degree of Bachelor of Science in Medical Technology from Memphis State University.*

## Departmental Requirements for Majors and Minors.

Listed below are the specific course requirements for all majors and minors offered in The College of Arts and Sciences. A minimum grade of C is required in every course applicable toward a major or a minor (including corequisites), except in beginning courses and in sophomore English.

Every student should be aware that the mere completion of courses outlined below with a grade of C or better does not guarantee him classification as a major or minor in the discipline concerned; *he must be recommended by the chairman of the department in which the major or minor is sought.* If, in the opinion

of the chairman, the quality of the student's work is not high enough, he may require additional work, the repetition of courses, or other evidences of superior scholarship.

#### ANTHROPOLOGY (See SOCIOLOGY AND ANTHROPOLOGY)

**ART** (*The requirements listed below are for the major in art history and minor in art for the Bachelor of Arts degree; for detailed requirements for the Bachelor of Fine Arts, a professional degree, see page 127.*)

*The Major in Art History:* 36 semester hours in art history courses, including Art 2101, 2102, 3161, 3162, and 4611, and 21 additional semester hours, 9 of which must be from the upper division.

*The Minor:* 24 semester hours in art courses, 9 of which must be from the upper division.

#### BIOLOGY

*The Major:* 36 semester hours in biology courses, 18 of which must be from the upper division; the student will elect *one* of the following areas of concentration and meet the specific requirements outlined below:

a. Botany

Biology 1200, 1600, 3070, 3240, 3500

Biology electives (chosen in conference with the adviser) to bring the total semester hours in biology to 36, including one field course

Chemistry 1111 and 1112 or the equivalent

b. Microbiology

Biology 1200, 1600, 3070, 3500, 3800

Biology electives (chosen in conference with the adviser) to bring the total semester hours in biology to 36

Chemistry 1111 and 1112 or the equivalent

c. Invertebrate Zoology or Entomology

Biology 1200, 1600, 3070, 3800, 3900

Biology electives (chosen in conference with the adviser) to bring the total semester hours in biology to 36

Chemistry 1111 and 1112 or the equivalent

d. Vertebrate Zoology

Biology 1200, 1600, 3070, 3610, 3620

Biology electives (chosen in conference with the adviser) to bring the total semester hours in biology to 36

Chemistry 1111 and 1112 or the equivalent

*The Minor:* 18 semester hours in biology courses (including Biology 1200 and 1600), 7 of which must be from the upper division.

**CHEMISTRY:** (*The requirements listed below are for majors and minors for the Bachelor of Arts or Bachelor of Science degrees; for detailed requirements for the Bachelor of Science in Chemistry, a professional degree, see page 127.*)

#### CHEMISTRY

*The Major:* 32 semester hours in chemistry courses, plus related courses, outlined below:

Chemistry 1111, 1112, 2200, 3311, 3312, and 12 additional



semester hours in chemistry courses numbered above 2999. (Chemistry 2000 and 2010 may be substituted for Chemistry 2200.)

Mathematics 1212, 1321, 2321, 2322

Physics 2511, 2512 (or 2111, 2112 if approved by the chairman of the Department of Chemistry.)

*The Minor:* 20 semester hours in chemistry courses, including Chemistry 1111, 1112, 2200 (or a 4 semester-hour course from the upper division), 3311, 3312

### PHYSICAL SCIENCE

A major in physical science is suggested for those students who plan to teach the sciences in high school but do not desire to major in either chemistry or physics.

*The Major:* 32 semester hours in chemistry and physics courses, including Chemistry 1111, 1112; Physics 2511, 2512 (or Physics 2111, 2112); and additional hours in chemistry and/or physics courses from the upper division to bring the total to 32 semester hours.

*The Minor:* 20 semester hours in chemistry and/or physics courses, of which at least 8 semester hours must be from the upper division.

### CLASSICAL LANGUAGES

*The Major in Latin:* 12 semester hours in upper-division Latin courses

*The Minor in Latin:* 6 semester hours in upper-division Latin courses

### ECONOMICS

*The Major:* 30 semester hours including Economics 2110, 2120, 3610, 4310, 4320; Management 3711 (or Mathematics 2611 or 3651), and 12 additional semester hours in economics courses from the upper division as approved by the department chairman.

*The Minor:* 18 semester hours in economics courses, including Economics 2110, 2120, 3610, 4310 (or 4320), and 6 additional semester hours from the upper division as approved by the department chairman.

### ENGLISH

*The Major:* 24 semester hours in upper-division English courses, including hours as specified from each of the following groups, each student's program to be arranged so as to provide the greatest possible chronological scope:

- I. Language (3): English 3501.
- II. American Literature (3): English 3321 or 3322.
- III. English Literature
  - A. (3): English 3211, 3212, 3213, or 3214.
  - B. (3): English 3221, 3222, 3223, or 3224.
- IV. Major Authors (3): English 4231 or 4234.
- V. Shakespeare (3): English 4232 or 4233.
- VI. Genre (3): English 3341, 3342, 4241, 4242, 4251, 4252, or 4351.

- VII. One additional upper-division English course (3), selection to be made with approval of adviser in light of choices made from first six groups.

NOTE: Students who wish to satisfy the requirements for both the English major and for endorsement to teach English in high school within the minimum of 24 hours must choose English 3321 from Group II; English 3214 from Group III A; English 3221, 3222, or 3223 from Group III B; and English 3322 from Group VII.

*The Minor:* 15 semester hours in upper-division English courses, including hours as specified from each of the following groups:

- I. Language (3): English 3501.
- II. American Literature (3): English 3321 or 3322.
- III. English Literature (3): English 3214, 3221, 3223, or 3224.
- IV. Shakespeare (3): English 4232 or 4233.
- V. One additional upper-division English course (except one from the century chosen in the Group III option) (3).

#### **FRENCH** (See MODERN LANGUAGES)

#### **GEOGRAPHY**

*The Major:* 25 semester hours in geography courses, including Geography 1101, 2301, 2311, and 15 additional semester hours from the upper division; and Geology 1101.

*The Minor:* 19 semester hours in geography courses, including Geography 1101, 2301, 2311, and 9 additional semester hours from the upper division; and Geology 1101.

#### **GEOLOGY**

*The Major:* 36 semester hours in geology courses, including Geology 1101, 1201, 2311, 2312, 2512, 3211, 3311, 3712, and 9 additional semester hours from the upper division as approved by the adviser.

Chemistry 1111 and 1112.

Mathematics 1321.

Physics 2511, 2512 (or 2111, 2112 if approved by department chairman).

*The Minor:* 18 semester hours in geology courses, including Geology 1101, 1201, and 10 additional semester hours.

#### **GERMAN** (See MODERN LANGUAGES)

#### **HISTORY**

*The Major:* 30 semester hours in history courses, including History 1301, 1302, 2601, 2602, and 18 additional semester hours from the upper division with a maximum of 12 semester hours in any one field (United States, Latin American, European, African, Far Eastern).

*The Minor:* 24 semester hours in history courses, including History 1301, 1302, 2601, 2602, and 12 additional semester hours from the upper division.

**JOURNALISM:** The Department of Journalism offers a choice of three majors and minors: news-editorial, advertising-public relations, and radio-television journalism. Requirements are as follows:

**NEWS-EDITORIAL:**

*The Major:* 30 semester hours in journalism courses, including Journalism 1011, 1012, 2111, 2112, 2300, 3112, 3113, 4001, 4005, and 3 additional semester hours from the upper division.

*The Minor:* Journalism 1011, 1012, 2111, 3112, 2300, and one additional upper-division course from the news-editorial major.

**ADVERTISING-PUBLIC RELATIONS:**

*The Major:* 30 semester hours in journalism courses, including 1011, 1012, 2111, 2211, 2300, 3210, 3221, 3222, 4222, 4232.

*The Minor:* Journalism 1011, 1012, 2111, 2300, 4222, and one additional upper-division course from the advertising-public relations major.

**RADIO-TELEVISION JOURNALISM:**

*The Major:* 30 semester hours in journalism and related courses, including Journalism 1011, 1012, 2111, 2112, 3221, 3331, 3332, 3333; Marketing 4120; Speech 3841.

*The Minor:* Journalism 1011, 1012, 2111, 2300, 3331, and one additional upper-division course from the radio-television journalism major.

*Note:* All journalism majors must have typing proficiency before admission to courses numbered 2000 and above.

Practical experience is available to all journalism students on *The Tiger Rag*, a semi-weekly newspaper; *The Statesman*, a fortnightly departmental publication; *The DeSoto*, University yearbook; or in one of the following activities: University Public Information Office, Athletic Publicity Office, Alumni Publicity Office, Photo Service Department. Qualified majors will be chosen for senior-year internships with Memphis newspapers, advertising-public relations agencies, and broadcasting stations.

**LATIN** (See CLASSICAL LANGUAGES)

**MATHEMATICS**

*The Major:* A minimum of 33 semester hours in mathematics courses including Mathematics 1321, 2321, 2322, 3111, and 15 additional semester hours from the upper division. Chemistry 1111 and 1112; or Physics 2511 and 2512.

*The Minor:* 18 semester hours in mathematics courses, including either Mathematics 1321, 2321, 2322, or 6 semester hours from the upper division.

**MODERN LANGUAGES:** The Department of Modern Languages offers majors and minors in French, German, and Spanish.

Requirements for the majors and minors are as follows:

**FRENCH**

*The Major:* 18 semester hours in upper-division French courses, including French 3411 and 3412.

*The Minor:* 12 semester hours in upper-division French courses.

## GERMAN

*The Major:* 18 semester hours in upper-division German courses, including German 3411 and 3412.

*The Minor:* 12 semester hours in upper-division German courses.

## SPANISH

*The Major:* 18 semester hours in upper-division Spanish courses, including Spanish 3411, 3412, 3511, and 3512.

*The Minor:* 12 semester hours in upper-division Spanish courses.

**MUSIC.** *The requirements listed below are for the major and minor in music for the Bachelor of Arts degree; for detailed requirements of the Bachelor of Music, a professional degree, see page 130.*

For requirements for the major and minor in music education, see page 165. For details of piano proficiency requirements, see page 273.

*The Major:* 39 semester hours in basic music courses plus the completion of the requirements for one concentration area; specific courses are outlined below:

- a. Basic music courses (39 semester hours)
 

Music 1041; 1032 (and 1012), 1033 (and 1013), 2034 (and 2014), 2035 (and 2015); 3031, 3033, 3035 (or 3235); 3131, 3132; and 4 semester hours of individual instruction in piano, organ, voice, or orchestral instrument.
- b. Concentration areas (choose one)
  1. Applied Music (4 semester hours)
 

4 semester hours of individual instruction in upper-division courses

Recital
  2. Music Theory and Composition (8 semester hours)
 

Music 3021, 3022, 3023, and 3024
  3. Music History and Literature (9 semester hours)
 

Three of the following courses: Music 4131, 4132, 4133, 4134
  4. Church Music (9 semester hours)
 

Music 3236, 4135, 4136

*The Minor:* 22 semester hours in basic music courses plus the completion of the requirements for one concentration area; specific courses are outlined below:

- a. Basic music courses (22 semester hours)
 

Music 1041; 1032 (and 1012), 1033 (and 1013); 3131, 3132; and 4 semester hours of individual instruction in piano, organ, voice, or orchestral instrument.
- b. Concentration areas (choose one)
  1. Applied Music (4 semester hours)
 

4 semester hours of individual instruction in upper-division courses
  2. Music History and Literature (6 semester hours)
 

Two of the following courses: Music 4131, 4132, 4133, 4134
  3. Church Music (9 semester hours)
 

Music 3235, 3236, 4135 (or 4136)



## PHILOSOPHY

*The Major:* 30 semester hours in philosophy courses, including Philosophy 1111 (or 1221), 1611, 2211, 2311, 2411 (or 2511), and 15 additional semester hours, at least 9 of which must be from the upper division.

*The Minor:* 21 semester hours in philosophy courses, including Philosophy 1111, 1611, and 15 additional semester hours, at least 6 of which must be from the upper division.

## PHYSICAL SCIENCE: (See CHEMISTRY)

### PHYSICS

*The Major:* 32 semester hours in physics courses, including Physics 2511, 2512 (Physics 2111, 2112 are acceptable but not recommended) and additional upper-division courses to bring the total to 32 semester hours.  
Mathematics 2322 and 6 semester hours in mathematics courses numbered above 2322

*The Minor:* 20 semester hours in physics courses, including Physics 2511, 2512 (Physics 2111, 2112 are acceptable but not recommended), and additional upper-division courses to bring the total to 20 semester hours.

## POLITICAL SCIENCE

*The Majors:*

Political Science: 30 semester hours in political science courses, including Political Science 1101, 1301, 2211, 2221, and 18 additional semester hours from the upper division, at least 6 semester hours of which must be theory courses.

Public Administration: 30 semester hours in political science courses, including Political Science 1101, 1301, 2211, 2221, and 18 additional semester hours from the upper division, including 6 semester hours of theory courses and 12 semester hours chosen from the following: Political Science 3224, 3601, 3602, 4224, 4601, 4604.

*The Minor:* 18 semester hours in political science courses, including Political Science 1101, 1301, 2211, 2221, and at least 6 additional semester hours from the upper division.

## PSYCHOLOGY

*The Major:* 33 semester hours in psychology courses, including Psychology 1101, 1102, 2301, 2302, 3201, 4101, and 13 additional semester hours, of which at least 6 must be from other 3000 level courses and at least 4 must be from 4200 level courses. It is strongly recommended that psychology majors complete all lower-division courses prior to enrolling in any upper-division course.

*The Minor:* 20 semester hours, including Psychology 1101, 1102, 2302, and 10 additional hours.

## SOCIOLOGY AND ANTHROPOLOGY

### SOCIOLOGY

*The Major:* 30 semester hours in sociology courses including Sociology 1111, 2112, 3311, 4211, and 18 additional semester hours, at least 15 of which must be from the upper division. No more than three semester hours toward a major will be accepted from the social-work courses, Sociology 2911, 3912, 3913.

*The Minor:* The department offers a choice of three minors, one in sociology, one in industrial sociology, and one in law enforcement; the requirements are as follows:

- a. *Sociology:* 18 semester hours in sociology courses, including Sociology 1111, and 15 additional semester hours from the upper division.
- b. *Industrial Sociology:* 18 semester hours in sociology courses, including Sociology 1111, 3841, 4842, 4843, and 6 additional semester hours from the upper division.
- c. *Law Enforcement:* 18 semester hours in law enforcement courses, including Sociology 3430, 3521, 4526, and 9 additional semester hours in upper-division law enforcement courses.

#### ANTHROPOLOGY

*The Major:* 24 semester hours in anthropology courses, including Anthropology 1100, 1200, 4065, 4995, and 12 additional semester hours, at least 9 of which must be from the upper division.

*The Minor:* 18 semester hours in anthropology courses, including Anthropology 1100, 1200, and 4065.

**SPANISH:** (See MODERN LANGUAGES)

**SPEECH AND DRAMA:** (*The requirements listed below are for the majors and the minor in speech and drama for the Bachelor of Arts degree; for detailed requirements for the Bachelor of Fine Arts degree in theatre, see page 129.*)

*The Majors:*

General Speech: 36 semester hours in speech courses, including Speech 1211, 1311, 1411, 1551, 2311, 2511, 2531, 2811, 3301 or 3401 or 3501 (two semesters), and 10 additional semester hours from the upper division.

Oral Communication: 36 semester hours in speech courses, including Speech 1211, 1311 (or 2311), 1781, 2321, 3311, 3341, 3371, and 15 additional semester hours chosen from the following: Speech 2311, 2331, 3301 (limited to two semesters), 4101, 4341, 4351, 4361, 4362, 4365, 4366, 4371, 4922.

Radio, Television, and Film: 32 semester hours in speech courses including Speech 1311 (or 1211), 1411, 1551, 2811, 2821, 3801 (two semesters), 3841, and 12 additional hours from the following courses: 2822, 3561, 3842, 3851, 3861, 4511, 4841, 4871.

Speech Pathology: 34 semester hours in speech courses including Speech 1311 (or 1211), 1411 (or 2531), 2611, 2621, 2631, 3601, 3602, 3603, 3604, 3641, 3651, 3661, 3631 (or 3681), 4671.

Audiology: 34 semester hours in speech courses including Speech 1311 (or 1211), 1411 (or 2531), 2611, 2621, 2631, 3601, 3602, 3603, 3604, 3631, 3641, 3681, 4631, 4632.

Theatre and Oral Interpretation: 35 semester hours in speech and drama courses, including Speech 1211, 1311 (or 2311), 1411, 1551, 2511, 2531, 3401 or 3501 (two semesters), and 15 additional semester hours chosen from the following: Speech 2411, 2512, 2541, 3451, 3521, 3531, 3551, 3552, 3561, 4421, 4431, 4441, 4511, 4561, 4571, 4581, 4921. Specific course requirements for theatre emphasis or oral in-

terpretation emphasis will be determined in conference with adviser.  
Theatre majors must obtain permission from adviser to work in theatres outside the University.

*The Minor:* 22 semester hours in speech courses, including Speech 1211, 1311, 1411, 2321, 2511, 3301 or 3401 or 3501, and 6 additional hours from the upper division.

Speech minor for Business Administration majors: 18 semester hours in speech courses, including Speech 1011, 1211, 2331, 3011, 3341, 4351.

Speech minor in Oral Interpretation: 18 semester hours in speech courses, including Speech 1211, 1411, 2411, 4421 (or 4431), and six hours chosen from the following: 2412, 3451, 3551, 3552, 4441, 4551, 4581.

# THE COLLEGE OF BUSINESS ADMINISTRATION

HERBERT JOHN MARKLE, B.B.A., M.A., Ph.D., *Dean*  
*Room 100, The College of Business Administration Building*

THE function of The College of Business Administration is to provide the basic education necessary to prepare a person to enter the profession of business. A significant characteristic of the college is that it provides for concentration in the basic areas of economics and business, not as a substitute for, but as a part of a broad liberal education. From forty to sixty per cent of the course work taken for the Bachelor of Business Administration degree is taken in such areas as the humanities, the natural and physical sciences, and the social sciences.

## Areas of Professional Training.

The College of Business Administration offers a wide selection of general and specialized fields, each of which has programs designed to prepare students for a variety of careers:

*Careers in Accountancy:* Accounting is a vital activity in any business. The increased complexity of financial records resulting from federal regulations and the expanded use of automation necessitates a highly technical background for persons who prepare financial reports. The Department of Accountancy offers preparation in governmental, industrial, and public accounting. It administers the testing program of The American Institute of Certified Public Accountants, the national scope of which enables students to check their individual ratings with national averages. Graduates with a major in accounting are qualified to take the Certified Public Accountants' examination in Tennessee; students desiring a career in public accounting are encouraged to intern with a public accounting firm in their senior year.

*Careers in Economics and Finance:* A sound understanding of our economic system is a must for today's businessman. In addition, business employs the professional economist for forecasting and explaining the effect of changing economic variables. Many economists are employed by government for comparable reasons. Training in economics is designed to increase awareness of economic problems and encourage the student to analyze alternative solutions for himself.

Courses in finance are designed to prepare the student for careers in financial institutions, and the finance departments of



business. Governmental finance broadens the student's understanding of important national and international problems and encourages the consideration of alternative solutions.

*Careers in Management:* The decisions of management in business are more and more being recognized as having broad implications extending beyond the individual firm. In recognition of this, the Department of Management offers the broad preparation necessary for future managers in such areas as general business management, personnel administration and industrial relations, and production management.

*Careers in Business Finance, Insurance and Real Estate:* Due to the greatly increased recognition given to managing the financial operations of a business, with its increased complexity and the newer techniques available, considerable demand has developed for those skilled in managing the financial flows of a business.

The risk factor involved in both business and life is beyond man's control. To meet this challenge, courses in insurance can be highly rewarding for the college graduate. The department offers preparation for careers in both property insurance and life insurance.

The ever increasing growth in population, with a constant supply of real estate, demands that the businessman have a working knowledge of real estate problems. Courses are offered to prepare students for both private practice and to function as an integral part of a business organization.

*Careers in Marketing:* One of the phenomena observed among college graduates is their frequent gravitation toward careers in marketing despite the field for which they prepared while in college. The Department of Marketing provides training for those who are interested in such areas as retailing, wholesaling, industrial marketing, purchasing, advertising, sales management, logistics, and marketing research. Careers in marketing provide a high degree of freedom, mobility, security, challenge, and monetary reward.

Students who wish to teach marketing (distributive education) in high schools, technical institutes, and junior colleges should minor in Distributive Education in The College of Education. Certification requirements are listed on page 112. For information concerning careers in this field students should see the chairman of the Department of Distributive Education.

*Careers as Professional Secretaries:* The value of a secretary, either man or woman, with a university degree is receiving increasing recognition by business executives; the same thing is true in the field of office management. Thorough training in both fields is

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provided by the Department of Secretarial Science and Office Management.

*Careers in Business Education:* Preparing students to teach business subjects in the secondary schools is an important function of The College of Business Administration. A student with a major in any one of the five departments of the college may qualify for a high school teaching certificate; he will minor in education and complete the certification requirements outlined on page 112. The chairman of the Department of Secretarial Science and Office Management serves as adviser to all students in The College of Business Administration preparing for a career in business education.

### The Pre-Law Curriculum.

A student enrolled in The College of Business Administration who wishes to prepare himself for entrance to law school may qualify for the Bachelor of Business Administration degree by completing all the requirements of the pre-professional degree program outlined on page 111, and by completing successfully one year at a law school of an accredited university. He must (1) meet all the lower-division requirements of The College of Business Administration as outlined on page 146; (2) complete the required core courses in the upper division as outlined on page 147 (with the omissions as explained on that page); (3) select a major in one of the departments and meet the requirements listed in the section beginning on page 149; (4) select a minor in one of the other foregoing departments or some other department in the University, and meet the requirements as determined by the chairman of the department concerned and (5) complete a minimum of 99 semester hours overall before entering law school. All upper-division courses taken in fulfillment of this program must be approved by the chairman of the department in which the student is majoring. Students frequently prefer to get the bachelor's degree before entering law school. In that case, any major in The College of Business Administration may be selected, and the regular program for that major, as outlined in the catalog, should be followed.

### Organization of the College.

The College of Business Administration comprises five departments: Accountancy, Economics and Finance, Management, Marketing, and Secretarial Science and Office Management. These departments offer a variety of majors and minors, the detailed requirements for which are listed in the section beginning on page 149.

The college is organized into a lower division and an upper division:

**THE LOWER DIVISION** comprises the freshman and sophomore years, the first four semesters of University work. Courses offered in the lower division are numbered from 1000 through 2999, and the student must register consistently for all lower division requirements until they are completed.

**THE UPPER DIVISION** comprises the junior and senior years, the last four semesters of undergraduate work; courses offered in the upper division are numbered from 3000 through 4999.

Courses in the 5000 series are open to seniors within 36 hours of graduation.

### **Laboratory Facilities.**

The College of Business Administration provides thirteen laboratories for development of facility in business: five accounting laboratories with individual tables for students; six secretarial laboratories, four for typewriting and two for general secretarial and office practice; one laboratory for statistics, equipped with adding machines and calculators; and laboratory work on electronic data computers. In addition the facilities of the Bureau of Business and Economic Research are available for research laboratory training.

### **Admission.**

Requirements for admission to The College of Business Administration are those set up for the University as a whole; see page 70.

A student who has attended another accredited college or university, or who has received correspondence and/or extension credit from such an institution, will be given credit for all acceptable residence work and for a maximum of 33 semester hours in acceptable correspondence and/or extension work. To be acceptable, a course must be approved by the Committee on Admissions and the quality point average must meet the minimum standards set by the University; see page 103 for details.

A student who transfers into The College of Business Administration from another school or college of the University will meet the requirements of the catalog in effect at the time of the transfer.

### **Residence Requirements.**

A transfer student must be in residence at Memphis State University during his final semester before graduation and for at least one additional semester during his junior and senior years. He must take a minimum of 15 semester hours of work in The College of Business Administration, of which 9 or more must be in

his major field. He must complete 6 or more semester hours in his minor. If the minor is in The College of Business Administration, the 6 hours may be a part of the required 15. Adjustments in major requirements may be made where feasible, but only with the approval of the Dean of The College of Business Administration.

University residence requirements are explained in detail on page 110.

### Degree Requirements.

The College of Business Administration offers the degree of Bachelor of Business Administration. To qualify for this degree the student must complete 132 semester hours with a quality point average of 2.0 (on a scale where A gives 4 quality points; B, 3; C, 2; and D, 1). Of the 132 semester hours required for graduation, at least 48 must be in courses from the upper division (those numbered above 2999). A grade of C or better must be earned in every upper-division course applied toward satisfaction of the specific major and minor.

General requirements for the degree include the successful completion of (I) required courses in the lower division (II) required courses in the upper division (III) requirements for a major in The College of Business Administration and (IV) requirements for a minor in either The College of Business Administration or another college of the University. A minimum of 40% of the hours required for the degree must be from outside business and economics (except for Principles of Economics) and a minimum of 40% of the hours required must be taken within the college. Required courses cannot be dropped except under very special conditions. Requirements are outlined in detail in the sections which follow.

#### I. REQUIRED COURSES IN THE LOWER DIVISION

(Figures in parentheses indicate semester hours credit. One-semester courses may be taken either semester.)

<i>First Semester</i>	<i>Second Semester</i>
English 1101 (3)	English 1102 (3)
Speech 1011 (3)	Mathematics 1203 or higher (3)
A biological or physical science (3)	A biological or physical science (3)
Management 1010 (3)	Psychology 1101 (3)
Physical Education (1)	Physical Education (1)
Air Force ROTC 1111 (for men) (1)	Air Force ROTC 1112 (for men) (2)
An elective course (3)	An elective course (3)

#### NOTES:

- a. The student who expects to major in accountancy may, with permission of his adviser, enroll in Accounting 2010 and 2020 in his freshman year, taking Accounting 2720 (Laboratory) along with Accounting 2020.



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- b. Typewriting ability is a basic requirement. Every student will enroll in a typewriting class during his first semester in The College of Business Administration or arrange to take a proficiency examination. If he fails the proficiency examination, he must enroll in a typewriting class the following semester; he must pass either the typewriting course or the test before he arrives at junior classification.
- c. The science requirement must be met by a two-semester sequence course. If mathematics is used as a science, the six hours required must be of a higher level than the course taken to meet the basic mathematics requirement. The courses taken must be of progressively greater difficulty.
- d. Air Force ROTC is required of all men except those excused by the Professor of Aerospace Studies; for details see page 109.
- e. If a student has had less than 2 units of high school mathematics, he should take Mathematics 1201 before Mathematics 1203. If a student has had 2 units of high school mathematics he should take Mathematics 1311 before Mathematics 1203. If a student has had 3 or more units of high school mathematics he should take Mathematics 1203. Mathematics 1203 or a more advanced course must be taken to meet the minimum mathematics requirement.

### *Third Semester*

Accounting 2010 (3)  
English 2101 (3)  
History 2601 (3)  
Economics 2110 (3)  
Physical Education (1)  
Air Force ROTC 2211  
(for men) (2)  
An elective course (3)

### *Fourth Semester*

Accounting 2020 (3)  
English 2102 (3)  
History 2602 (3)  
Economics 2120 (3)  
Management 2711 (3)  
Physical Education (1)  
Air Force ROTC 2212  
(for men) (1)  
An elective course (3)

### NOTES:

- a. Accounting 3110 and 3120 may be taken by the student with credit in Accounting 2020.
- b. The student planning to major in secretarial science may start shorthand in the sophomore year.
- c. Men taking Air Force ROTC 2211 and 2212 may be excused from two semesters of Physical Education.
- d. If a student has credit in Accounting 2020 and Economics 2110, he may enroll in Management 3410 during his fourth semester.
- e. Marketing 3010 should be taken in the fourth semester by marketing majors and by all others who can fit it into their schedules (and who have completed Economics 2110 and are concurrently in Economics 2120.)

## II. REQUIRED CORE COURSES IN THE UPPER DIVISION

Every student enrolled for the degree of Bachelor of Business Administration with the exceptions noted below, must complete successfully the following courses:

Economics 3610, Money and Banking I (3)  
Management 3010 and 3020, Business Law (6)  
Management 3410, Business Organization (3)  
Management 3711, Business Statistics II (3)  
Marketing 3010, Basic Marketing (3)  
Secretarial Science 3510, Business Communication (3)

**NOTE:** Students enrolled in the three-year pre-law curriculum will omit Management 3010 and 3020 and Marketing 3010.

## III. THE MAJOR

With the assistance of his adviser, each student, not later than the beginning of his junior year, will select from the list below an area of specialization, called the major. After selecting his major the student will report to the dean of The College of Business Administration for assignment to a major professor in the department in which the major is offered. Listed

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below are the five departments of The College of Business Administration and the areas of specialization offered in each; the specific courses required by each department for the satisfaction of its majors are listed in the section beginning on page 149.

### DEPARTMENT OF ACCOUNTANCY

- Governmental accounting
- Industrial accounting
- Pre-law curriculum
- Public accounting

### DEPARTMENT OF ECONOMICS AND FINANCE

- Banking
- Economic analysis and research
- Economic theory
- Government finance
- Investments
- Pre-law curriculum

### DEPARTMENT OF MANAGEMENT

- General business management
- Production management
- Personnel administration and industrial relations
- Division of Business Finance, Insurance, and Real Estate:*
- Business Finance
- Insurance
- Real Estate

### DEPARTMENT OF MARKETING

- Marketing-Communications
- General marketing
- Industrial marketing and logistics
- Retailing
- Sales

### DEPARTMENT OF SECRETARIAL SCIENCE AND OFFICE

- MANAGEMENT
- Office management
- Secretarial science

## IV. THE MINOR

To broaden his background every student is required to complete sufficient work in an area other than his major to evidence some degree of specialization in that area. Two options are available:

### a. The minor in The College of Business Administration:

If the student elects a minor from The College of Business Administration, he must choose one from a department other than the one in which his major is offered. The minor program must be approved by the chairman of the minor department early in the student's junior year; it must include a minimum of 9 semester hours of courses from the upper division. (A student whose major is in another college of the University and who wishes a minor in The College of Business Administration may choose a minor from any department; the requirements are listed, by departments, below. A general minor in business administration is not available. This student must have a C or better in every course used in the minor.)

- b. The minor in another college of the University:

The student whose major is in The College of Business Administration may complete a minor in any one department of any college of the University, provided that such a minor consists of a minimum of 18 semester hours, at least 6 semester hours of which must be in courses from the upper division (numbered above 2999).

## Departmental Requirements for Majors and Minors.

**DEPARTMENT OF ACCOUNTANCY:** The objective of the Department of Accountancy is to provide the graduate with a substantial background in accountancy which will enable him to adjust himself to any accounting situation and to advance rapidly in government, industry, or public accounting practice. The curriculum is designed to enable the student to achieve mastery of the generally accepted accounting principles and procedures as they are applied in all fields of accounting and to study modern accounting trends and techniques and the current controversial topics in his profession.

An accounting major or minor must have a grade of C or better in every course attempted in The Department of Accountancy.

Specialization is provided in (1) governmental accounting, (2) industrial accounting, and (3) public accounting.

*The Major:* Accounting 2720 (Laboratory) and a minimum of 27 semester hours in upper-division accounting courses, as follows:

3110 and 3120, Intermediate Accounting I and II

3310 and 3320, Cost Accounting I and II

4210, Advanced Accounting I

4510, Federal Income Tax I

3240, Internal Auditing (if the specialization is industrial accounting)

or

4240, Auditing I (if specialization is public accounting)

Two additional upper-division accounting courses, approved by the department chairman

*The Three-Year Pre-Law Major* (see page 144)

Accounting 3110 and 3120, Intermediate Accounting I and II

Accounting 3310, Cost Accounting I

Three additional accounting courses selected from the following:

Accounting 3320, 4210, 4220, 4240, 4250, 4450, 4460, 4510, 4520, 4540

*The Minor:* A minimum of 19 semester hours in accounting courses, as follows:

2010 and 2020, Fundamentals of Accounting

2720, Accounting Laboratory

3110, Intermediate Accounting I

3310, Cost Accounting I

Two additional upper-division accounting courses, approved by the department chairman

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### DEPARTMENT OF ECONOMICS AND FINANCE

*The Major in Economics* (THE COLLEGE OF BUSINESS ADMINISTRATION): a minimum of 21 semester hours in upper-division courses, as follows:

3110, Economics of Business Enterprise

3210, Labor Economics

4310, Microeconomic Theory

4320, Macroeconomic Theory

Three additional upper-division courses selected with the approval of the department chairman.

*The Major in Economics* (THE COLLEGE OF ARTS AND SCIENCES): the student will be required to meet the requirements for the Bachelor of Arts degree plus the specific major requirements:

2110, 2120, Principles of Economics I and II

3610, Money and Banking I

4310, Microeconomic Theory

4320, Macroeconomic Theory

Management 3711 or Mathematics 2611 or 3651

Four additional upper-division courses, for a total of 30 semester hours, selected with the approval of the department chairman.

*The Three-Year Pre-Law Major* (see page 144)

Six economics courses selected from the following:

Economics 3110, 3210, 3330, 3710, 4130, 4310, 4320, 4350, 4610, 4720

*The Major in Finance*: a minimum of 21 semester hours in upper-division economics courses, as follows:

4120, Business Cycles and Forecasting

4320, Macroeconomic Theory

4610, Central Banking and Monetary Theory

4710, Financial Markets

Three additional upper-division courses selected with the approval of the department chairman.

*The Minor:*

- a. For students whose major is within The College of Business Administration: three approved upper-division courses in economics or finance, exclusive of the basic upper-division requirements for the Bachelor of Business Administration degree.

- b. For students whose major is in another college of the University:

ECONOMICS MINOR: Economics 2110 and 2120, Principles of Economics I and II

Economics 3610, Money and Banking I

Economics 4310, Microeconomic Theory or 4320, Macroeconomic Theory

Two additional approved upper-division courses

FINANCE MINOR: Accounting 2010, 2020

Economics 2110, 2120, 3610

Management 3410

Two additional approved upper-division courses



DEPARTMENT OF MANAGEMENT

*The Major in Management:* a minimum of 21 semester hours in upper-division courses, as follows:

Management 4420, Human Relations in Business; Management 4610, Corporation Finance

Management 4410, Management of Business Enterprise

A minimum of 12 semester hours in courses related to one of the following areas, selected with the approval of the major professor:

General business management

Production management

Personnel administration and industrial relations

*The Three-Year Pre-Law Major* (see page 144)

Six management courses selected from the following:

Management 3220, 3310, 3510, 3810, 4220, 4310, 4320, 4410, 4610, 5010, 5020

*The Minor in Management:*

- a. For the student whose major is within The College of Business Administration: three approved upper-division courses in management, exclusive of the basic upper-division requirements for the Bachelor of Business Administration degree.
- b. For the student whose major is in another college of the University:  
Accounting 2010 and 2020, Fundamentals of Accounting  
Economics 2110 and 2120, Principles of Economics I and II  
Economics 3610, Money and Banking I  
Management 3410, Business Organization  
Two additional approved upper-division courses in Management.

*The Division of Business Finance, Insurance and Real Estate.*

*The Major in Business Finance:* A minimum of 21 semester hours in upper-division courses, as follows:

Management 4610, Corporation Finance

Economics 4320, Macroeconomic Theory

Economics 3710, Investments

Four additional upper-division courses selected with approval of the department chairman.

*The Minor in Business Finance:*

- a. For the student whose major is within The College of Business Administration: Management 4610, Corporation Finance, plus two additional courses selected with approval of the minor adviser.
- b. For the student whose major is within another college of the University:  
Accounting 2010 and 2020, Fundamentals of Accounting  
Economics 2110 and 2120, Principles of Economics I and II  
Economics 3610, Money and Banking I  
Management 3410, Business Organization and Finance  
Two additional approved upper-division courses.

*The Major in Insurance:* A minimum of 21 semester hours in upper-division courses, as follows:

Management 3810, General Insurance

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Management 4810, Property and Casualty Insurance

Management 4820, Life and Health Insurance

Management 4610, Corporation Finance

A minimum of 9 semester hours in courses related to one of the following areas, selected with the approval of the major professor:

Property and Casualty Insurance

Life Insurance

### *The Minor in Insurance:*

a. For the student whose major is within The College of Business Administration: Management 3810, General Insurance, plus two additional courses selected with approval of minor adviser.

b. For the student whose major is within another college of the University:

Accounting 2010 and 2020, Fundamentals of Accounting

Economics 2110 and 2120, Principles of Economics I and II

Economics 3610, Money and Banking I

Management 3410, Business Organization and Finance

Two additional approved upper-division courses in Business Finance, Insurance and Real Estate.

### *The Major in Real Estate:* A minimum of 21 semester hours in upper-division courses, as follows:

Management 3310, Real Estate

Management 4310, Real Estate Law

Management 4320, Real Estate Finance

Management 4410, Management of Business Enterprise

A minimum of 9 semester hours selected with the approval of the major adviser.

### *The Minor in Real Estate:*

a. For the student whose major is within The College of Business Administration: Management 3310, Real Estate, plus two approved courses.

b. For the student whose major is within another college of the University:

Accounting 2010 and 2020, Fundamentals of Accounting

Economics 2110 and 2120, Principles of Economics I and II

Economics 3610, Money and Banking I

Management 3410, Business Organization and Finance

Two additional approved upper-division courses in Business Finance, Insurance, and Real Estate.

**DEPARTMENT OF MARKETING:** The objective of the Department of Marketing is to provide the student with a broad concept of the marketing process and to develop an understanding of all the factors involved in the collection and distribution of goods and services. A marketing major or minor must have a grade of C or better in every Marketing course attempted.

By careful selection of electives (before the middle of his sophomore year), the marketing major may become certified to teach distributive education in high schools, technical institutes,

and junior colleges. See page 112 for details of certification requirements, page 167 for additional information on distributive education.

*The Major:* a minimum of 24 semester hours in upper-division marketing courses, as follows:

- 3011, Marketing Institutions
- 3012, Marketing Promotions
- 3080, Marketing Analysis
- 4010, Marketing Administration
- 4080, Marketing Research

A minimum of 9 semester hours (12 semester hours for general marketing and sales) in upper-division marketing courses applicable to one of the following specific majors. Courses marked with an asterisk are required; others may be chosen from those listed with the major or from those listed as General Electives at the end of this section:

MARKETING-COMMUNICATIONS: designed to provide an understanding of mass communication media, advertising agencies, retail advertising departments, advertising management, and other advertising activities. (A minimum of 9 semester hours including required courses).

- \*3140 Advertising Fundamentals
- \*3170 Advertising Problems
- 4150 Advertising Media and Campaigns
- 4160 Advertising Management

GENERAL MARKETING: allows a concentration in marketing without specialization: the required courses include a key course from each of the specific majors. (A minimum of 12 semester hours.)

- \*3140 Advertising Fundamentals
- \*3210 Logistics Administration
- \*3320 Retail Store Management
- \*4410 Sales Management

INDUSTRIAL MARKETING AND LOGISTICS: designed to provide an understanding of the distribution system as it pertains to the flow of goods within and without the environment. (A minimum of 9 semester hours including required courses.)

- \*3210 Logistics Administration
- \*3220 Industrial Marketing
- 4230 Quantitative Analysis of Logistics Systems
- 4220 Purchasing

RETAILING: this major gives the student a background in the operation and management of retail establishments. (A minimum of 9 semester hours including required courses.)

- \*3320 Retail Store Management
- \*3330 Retail Merchandising
- 4310 Retail Store Promotions
- 4330 Credit and Collections

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**SALES:** this major gives the student a thorough grounding in the field of sales from basic salesmanship through sales management; the subject matter is approached from both theoretical and practical aspects. (A minimum of 12 semester hours.)

\*3410 Sales Fundamentals

\*3430 Sales Promotion

\*4410 Sales Management

4420 Sales Training

**GENERAL ELECTIVES:** one of the following four courses may be used for a non-required course in a specific major.

4530 International Marketing

4520 Product Planning

4991 Work Experience in Marketing I

4992 Work Experience in Marketing II

4910 Problems in Marketing

### *The Minor:*

- a. For the student whose major is within The College of Business Administration: three approved upper-division courses in marketing, exclusive of the basic upper-division requirements for the Bachelor of Business Administration degree.
- b. For the student whose major is in another college of the University: Accounting 2010 or Economics 2110; *and* Marketing 3010 and the 15-semester-hour marketing core; *or* Marketing 3010, 6 semester hours from the marketing core, and 9 semester hours from a specific major.

### **DEPARTMENT OF SECRETARIAL SCIENCE AND OFFICE MANAGEMENT:**

The student planning to major in either secretarial science or office management will take in his freshman year Secretarial Science 1210 and 1220, Elementary Typewriting and Intermediate Typewriting. If he has had previous training in typewriting, he will omit 1210 and take 1220 and a higher-numbered typewriting course, or one semester of an approved elective.

The student planning to major in secretarial science will take, in his sophomore year, Secretarial Science 2120 and 2130, Fundamentals of Shorthand and Intermediate Shorthand. If he has had previous training in shorthand, he will omit 2120 and take 2130 and a higher-numbered shorthand course, or one semester of an approved elective. Students planning to major in office management may omit shorthand from their programs.

No more than three courses (9 semester hours) in typewriting may be applied toward satisfaction of the degree requirements by a student with high school credit in typewriting.

All students must earn a grade of C or better in a typewriting or shorthand course before they can register for the next course in the subject.



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*The Major in Secretarial Science:* a minimum of 24 semester hours of upper-division secretarial science courses, as follows:

- 3140, Advanced Shorthand
- 3250, Advanced Typewriting
- 3520, Business Letter Writing
- 4270, Secretarial Typing and Office Machines
- 4320, Applied Secretarial Practice
- 4330, Records Management and Control

Two of the following courses, selected in conference with the adviser:

- 4160, Secretarial Dictation
- 4400, Punched Card Methods
- 4401, Punched Card Applications
- 4410, Office Management
- 4530, Executive Communication
- 5420, Problems in Office Management

*The Major in Office Management:* a minimum of 24 semester hours of upper-division courses as follows:

- 3520, Business Letter Writing
- 4330, Records Management and Control
- 4400, Punched Card Methods
- 4401, Punched Card Applications
- 4410, Office Management
- Accounting 3210, Financial Statement Analysis

Two of the following courses, selected in conference with the adviser:

- 4530, Executive Communication
- 5420, Problems in Office Management
- Economics 3110, Economics of Business Enterprise
- Management 4210, Personnel Administration
- Management 4610, Corporation Finance
- Management 4410, Management of Business Enterprise
- Marketing 4330, Credit and Collections

*The Minor in Secretarial Science:*

- a. For the student whose major is within The College of Business Administration: one course (above the beginning courses) in shorthand; one course (above the beginning courses) in typewriting; and two additional upper-division courses in secretarial science approved by the department chairman.
- b. For the student whose major is in another college of the University: 1210 and 1220, Elementary Typewriting and Intermediate Typewriting.  
2120 and 2130, Fundamentals of Shorthand and Intermediate Shorthand.  
3140, Advanced Shorthand.

Two or three additional approved upper-division courses in secretarial science.

(If the student can demonstrate proficiency in either typewriting or shorthand, he may omit either Secretarial Science 1210 or 2120, thus reducing the hours required for the minor from 21 to 18; a minimum of 18 semester hours is required.)

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### *The Minor in Office Management:*

- a. For the student whose major is within The College of Business Administration:
  - 3520, Business Letter Writing
  - 4330, Records Management and Control
  - 4400, Punched Card Methods
  - 4410, Office Management
- b. For the student whose major is in another college of the University:
  - Accounting 2010 and 2020, Fundamentals of Accounting
  - Economics 2110 and 2120, Principles of Economics I and II
  - 4410, Office Management
  - Two additional upper-division courses in secretarial science approved by the department chairman.

# THE COLLEGE OF EDUCATION

SAM HOWARD JOHNSON, B.S., M.A., Ed.D., *Dean*

JOHN A. PERMENTER, B.S., B.A., M.A., Ed.D., *Associate Dean*

*Room 406, Education Building*

THE College of Education has as its objectives (1) to be an articulate part of the general and cultural program of the University; (2) to provide a program of teacher education which promotes the growth and development necessary for successful teaching; (3) to recruit desirable candidates for the teaching profession; (4) to assist in placing teachers; (5) to provide professional service to public schools in the service area; and (6) to develop and carry out a continuing program of educational research. Several curricula leading to the degree of Bachelor of Science in Education are available. Candidates for this degree take required and elective courses within The College of Education and, in preparation for teaching in certain areas, take courses in The College of Arts and Sciences and in The College of Business Administration. Students who wish to matriculate in the teacher education program must meet the special criteria of that program in addition to the general University admission requirements. Applications for admission to this program cannot be considered until the student has completed a minimum of one and one-half years of college work to the satisfaction of the faculty of The College of Education. For details see page 159.

## Accreditation.

The College of Education holds membership in the American Association of Colleges for Teacher Education. Its undergraduate programs for the preparation of elementary and secondary teachers are fully accredited by the National Council for Accreditation of Teacher Education.

## Organization of the College.

The College of Education comprises the following departments and divisions: Educational Administration and Supervision; Elementary Education; Health, Physical Education, and Recreation; Home Economics; Division of Industrial Arts Education; Division of Music Education; Secondary Education; Special Education; and the Division of Vocational and Technical Education (distributive education and office education).

These departments offer a variety of majors and minors, the

detailed requirements for which are listed in the section beginning on page 163. The University Campus School, a public school comprising grades 1 through 6, is operated under the supervision of The College of Education.

The College of Education is organized into a lower division and an upper division.

THE LOWER DIVISION comprises the freshman and sophomore years, the first four semesters of University work; courses offered in the lower division are numbered from 1000 through 2999. In order to be admitted to the upper division, the student must have completed the work of the lower division with an average grade of C (2.0). In addition, he must have submitted to his adviser for approval a complete program of study for work in the upper division. Students who complete the work of the lower division with less than a C average will be given one additional semester in which to reach this standard. If, at the end of this additional semester, the student's average is below C, he will be advised to withdraw from the University.

THE UPPER DIVISION comprises the junior and senior years, the last four semesters of undergraduate work; courses offered in the upper division are numbered from 3000 through 4999. Students who have completed the required number of hours and the required residence to be classified as juniors, but who have not completed their basic requirements in the lower division, must schedule these uncompleted requirements during the first semester in which such courses are available. Forty-five semester hours are required in the upper division. In the upper and lower-division requirements no grade of less than C will be accepted in areas of endorsement (except in elementary certification) and in professional courses.

### **Bureau of Educational Research and Services.**

The Bureau of Educational Research and Services coordinates educational studies, surveys, evaluations, consultant activities and information for The College of Education. Emphasis is placed on team projects related to the needs of West Tennessee and the Mid-South area and conducted through the cooperative efforts of the faculty and students of The College of Education and educators in local school systems. The primary objective of the Bureau is service, with research playing a fundamental role in the extension of this service.

School systems, students, or any other interested person should confer with Dr. James W. Colmey, director of the Bureau (Room 402, Education Building) for information about opportunities for educational research and services.



## University Campus School.

The University Campus School, located east of The College of Education Building, is a public school comprising grades 1 through 6, operated by the University as a part of the public school system of the City of Memphis; it offers a broad program of training for approximately 700 students. This school serves the teacher education program as a laboratory in which prospective teachers observe and study, and where a limited number practice the art of teaching. Varied opportunities are offered University students to study children, to study a school program, and to participate in teaching activities. Through the Campus School arrangements have been made for the use of other city schools for purposes of teacher education. Student experiences with the teachers of the Campus School, and with other teachers in the area, are considered an integral part of preparation for a teaching career.

The University also conducts a Nursery and Kindergarten School, administered by the principal of the Campus School in cooperation with the Department of Elementary Education and the Department of Home Economics. The school is a non-profit institution, and tuition charges are determined by the cost of operation.

## Admission.

Requirements for admission to The College of Education are those set up for the University as a whole; see page 70.

## Admission to Teacher Education Program.

Students who enter Memphis State University for the first time after September 1, 1962, and who wish to prepare themselves for careers as teachers must make formal application for admission to the teacher education program during the second semester of the sophomore year. Students who transfer to Memphis State University after the completion of their sophomore year, or with more than 45 semester hours of credit, must make application during their first semester of residence at Memphis State.

The following factors will be considered by the screening committee in determining a student's eligibility for admission to the teacher education program: (1) academic aptitude; (2) academic achievement, (3) proficiency in English and mathematics, (4) health, (5) social adjustment, (6) communication skills, (7) interest in teaching, and (8) the desire to work effectively with students.

Once admitted to the teacher education program the student

must maintain the standards required for admission. If the student falls below any of these standards, his name will be removed from the file of students matriculated in teacher education and he will be advised of this action. He may then either try to bring his record up to a level suitable for re-admission or drop out of the teacher education program.

In order to be graduated and certified to teach, a student must (1) meet all standards established for admission to the teacher education program, (2) make formal application for and be admitted to that program, (3) complete all requirements for certification (outlined on page 112); and (4) complete all degree requirements in the college of the University in which he is enrolled.

All graduates of The College of Education must be qualified for a teaching certificate.

No student will be enrolled for a course in student teaching until he has been admitted to the teacher education program and has met all the prerequisites for student teaching.

Application forms for admission to the teacher education program may be secured from the office of the dean of The College of Education, Room 404, Education Building. For a detailed explanation of all requirements, the student should consult with his adviser.

### Degree Requirements.

To qualify for the Bachelor of Science in Education degree the student must complete 132 semester hours with a grade point average of 2.0 (on a scale in which A has the quality point value of 4; B, 3; C, 2; and D, 1). Of the 132 semester hours required for graduation, at least 45 must be in courses from the upper division (those numbered above 2999).

At least 60 semester hours of the credit applied on the degree must be of liberal content. Courses in the following fields offered in The College of Arts and Sciences will meet this requirement: anthropology, art (non-applied), biology, chemistry, English, geography, geology, history, journalism (non-applied), languages, mathematics, music (non-applied), philosophy, physics, political science, psychology, sociology, and speech. The following courses offered in The College of Education will meet this requirement: Education 2111, 4011, 4012, and 4021; Health 1102; Home Economics 1101, 1104, 2202, and 4101.

General requirements for the degree include the successful completion of (I) the general education program, (II) the professional education program, (III) physical education activity

courses, (IV) a major in The College of Education and (V) endorsement in two or more teaching areas. Elementary teachers meet only the endorsement required for elementary grades. These requirements are outlined in detail in the sections which follow.

I. THE GENERAL EDUCATION PROGRAM (45 semester hours)

*(Courses taken to meet the requirements of this section may, if applicable, be used to meet the requirements of Section V, below.)*

English 1101, 1102, 2101, and 2102

Health 1102

History 2601, 2602

Mathematics 1181 for elementary certificate; for secondary certificate Mathematics 1111 or any higher-numbered mathematics course excluding Mathematics 1211 (Basic Mathematics)

Speech 2911 for elementary certificate; 1211 or 1311 or 1411 for secondary certificate.

Science: 9 semester hours (including one two-semester laboratory sequence course) in two of the following sciences: biology, chemistry, Geography 1101, 4111, 4121, 4122, 4131; geology, physics. (P. E. majors may take P. E. 3703 for second area).

One course (3 semester hours) in one of the following social sciences: anthropology, economics, geography (other than the earth science courses outlined above), political science, sociology.\*

One course (3 semester hours each) in the humanities to be chosen from one of the following departments: Art, Classical Languages, Modern Languages, and Philosophy.

One of the following courses: Home Economics 1101, Psychology 1101, Sociology 1111.

II. THE PROFESSIONAL EDUCATION PROGRAM (27 semester hours)

Education 2011, 2111, 3121, and the courses in one of the following groups:

For the elementary certificate: Education 3241, 3251, 3261, 3271, and 4821.

For the secondary certificate: Education 4441, 4841, an appropriate secondary schools methods course, and 3 semester hours of elective applicable for secondary school teachers.

III. PHYSICAL EDUCATION ACTIVITY COURSES

Two to four semesters of physical education activity courses; for details see page 109.

IV. A MAJOR IN THE COLLEGE OF EDUCATION

The student will choose one of the following majors offered in The College of Education. The specific courses required for the satisfaction of these majors are listed in the following pages.

Elementary Education

Health and Physical Education

Home Economics

Industrial Arts Education

Music Education

Recreation

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\*May be used to satisfy only one area.

Secondary Education

Special Education

Vocational and Technical Education

Distributive Education (marketing)

Office Education (business education and office management)

V. CERTIFICATION IN TWO OR MORE TEACHING AREAS

The student must complete the requirements of individual departments for certification in the State of Tennessee in *two* or more teaching areas (combined minimum of 36 semester hours) with a 2.250 average in each, unless special exception is made by the dean of The College of Education. Elementary school teachers are required to meet only the endorsement for elementary grades. Specific course requirements for all of the endorsements offered in the University are listed in the section beginning on page 112.

### Directed Student Teaching.

Directed student teaching, offered in the University Campus School and in cooperating schools in the Memphis and Shelby County school systems, provides opportunities for observation of good teaching practices and for practical teaching experience under the direction of supervising teachers.

Students preparing to teach in the elementary schools are required to enroll for nine semester hours of student teaching to be done on an all-day basis for one half a semester. Students preparing to teach in the secondary schools are required to enroll for nine semester hours of student teaching to be done three hours daily for an entire semester, or all day for one half a semester. NOTE: *Students who enroll for student teaching on an all-day basis may not register for any other course which is scheduled to meet during the half-semester in which the student teaching is done.*

All teacher-education students will observe a professional semester when they are enrolled in student teaching. During this semester, only professional courses will be taken. Elementary teachers will complete Education 3241, 3251, and 3271 prior to the professional semester and enroll in Education 3261, 4242 and 4821 within the professional semester. Directed student teaching will be an all-day experience. Secondary teachers will complete the appropriate secondary methods course (Education 3321-3384) prior to the professional semester and Education 4441 and 4841 within the professional semester. Exceptions may be made to permit secondary teachers to enroll for the appropriate secondary methods course during the professional semester. Advisers may assign appropriate courses where indicated to complete the professional semester. Directed student teaching for secondary teachers will be done three hours daily for an entire semester, or on an all-day basis for one half of a semester.



Exception to the requirements for the professional semester may be made when approved by the dean of The College of Education.

Requirements for enrolling in the student teaching program are as follows:

1. The filing of an application with the coordinator of student teaching during the semester prior to the one in which the student teaching is to be done. Applications for student teaching to be done in the fall semester must be filed by April 1; for the spring semester by October 15.
2. Classification as a senior or graduate student.
3. Completion of at least one semester of residence at Memphis State University.
4. An over-all average of at least 2.000; an average in education courses of at least 2.000; an average in the endorsement area of at least 2.250.
5. Completion of Education 2011, 2111, and 3121.
6. Completion of Education 3241, 3251, and 3271 (for those preparing to teach in elementary schools); Education 3211 and 3411 (for kindergarten); or the appropriate secondary methods course (for those preparing to teach in secondary schools).
7. Completion of either the elementary or secondary endorsement.
8. Approval by the applicant's adviser and by the coordinator of student teaching.

## Requirements for Majors and Minors.

**DEPARTMENT OF EDUCATIONAL ADMINISTRATION AND SUPERVISION.** The Department of Educational Administration and Supervision does not offer courses at the undergraduate level leading to a degree program. Students who plan graduate study in this area should consult The Bulletin of The Graduate School.

**DEPARTMENT OF ELEMENTARY EDUCATION.** The Department of Elementary Education offers a major in elementary education and minors in elementary education and library service.

### *The Major:*

**ELEMENTARY EDUCATION:** 33 semester hours, as follows: Education 2011, 2111, 3121, 3241, 3251, 3261, 3271, 4242, 4821 (9 semester hours); and completion of the requirements of general education and elementary grades endorsement area.

**The Minors:** A co-requisite for the minors listed below is the completion of the requirements for certification to teach in the State of Tennessee; these requirements are outlined in the section beginning on page 112.

**ELEMENTARY EDUCATION:** Same as elementary education major.

**LIBRARY SERVICE:** 18 semester hours in library service courses in conference with the adviser, plus certification in any area of either elementary or secondary education.

**DEPARTMENT OF DISTRIBUTIVE EDUCATION.** (See page 167, Division of Vocational and Technical Education)

DEPARTMENT OF HEALTH, PHYSICAL EDUCATION, AND RECREATION. Majors and/or minors are offered in (1) health, (2) health and physical education, and (3) recreation. The recreation major will not satisfy teacher certification requirements nor any endorsement area in The College of Education.

*The Major in Health and Physical Education*

FOR MEN: 45 semester hours, as follows:

Health 1102, 2102 or 3502, 3102, 3202 (12 semester hours)

Physical Education 1101, 1121, 1131 or 1141, 1171, 1251, 1311, 1321, 1701, 2503, 3203, 3303, 3403, 3503, 3603, 3703, 4204, 4503 (29 semester hours)

Two of the following courses: Physical Education 2103, 2203, 2303, 2403 (4 semester hours)

Biology 1631, 1632

FOR WOMEN: 45 semester hours, as follows:

Health 1102, 2102, 3102, 3202 (12 semester hours)

Physical Education 1101, 1121, 1131 or 1141, 1171, 1221, 1251, 1271, 1311, 1321, 2503, 3103, 3203, 3303, 3403, 3503, 3603, 3703, 4204, 4503 (33 semester hours)

Biology 1631, 1632

*The Major in Recreation*

General Education Program (54 semester hours)

English 1101, 1102, 2101, 2102

Health 1102, 2102

Biology 2002, 3240, and two of following: Biology 3050, 3600, 3940

History 2601, 2602

Psychology 1101, 1102

Sociology 1111, 2410

Anthropology 1200

Mathematics 1111, or 1131, or 1211

Related Areas of Study (24 semester hours)

Art 3411, 3531

Music 2231

Speech 1311

Drama (3 semester hours elective)

Education 2011, 2111, 3121

Professional Areas of Study (35 semester hours)

Physical Education 1101, 1141, 1221 (women), 1251, 1271 (women), 1311, 1331, 1341 (men), 1351, 1701 (men), 3203, 3503, 3603

Recreation 3705, 3905, 4105, 4405, 4505, 4605

*The Minor in Health: 27 semester hours, as follows:*

Health 1102, 1202, 2102, 3102, 3202, 4802

Home Economics 2202

Biology 1631, 1632

*The Minor in Health and Physical Education*

FOR MEN: 35 semester hours, as follows:

Biology 1631 and 1632 (6 semester hours)

Health 1102, 2102 or 3502, 3102, 3202 (12 semester hours)

Physical Education 1101, 1251, 1311, 1321 (4 semester hours)

Physical Education 2103 or 2203 or 2303 or 2403, 3203, 3303, 3503, 3603, 4503 (13 semester hours)

FOR WOMEN: 31 semester hours, as follows:

Biology 1631, 1632 (6 semester hours)

Health 1102, 2102, 3102, 3202 (12 semester hours)

Physical Education 1101, 1221, 1251, 1311, 1321 (5 semester hours)

Physical Education 3103, 3203, 3303, 3503, 3603, 4503 (14 semester hours)

## DEPARTMENT OF HOME ECONOMICS

*The Major:* 39 semester hours in home economics courses and 13 to 16 semester hours in related courses, as follow:

Home Economics 1101, 1105, 2102, 2103, 2202, 2205, 3302, 3305, 3402, 4101, 4103, 4104, 4203

Biology 1632 or 3730

Sociology 1111

*The Minor:* 18 semester hours in home economics courses, including Home Economics 1105, 1104 (or 2205), 2102, 2202, 4101, and one additional course from the upper division.

## DIVISION OF INDUSTRIAL ARTS EDUCATION

*The Major:* 42 semester hours in Industrial Arts Education and Technology courses as follows:

Industrial Arts Education 2911, 4361, 4371, 4375

Technology 1511, 1611, 1711, 1811

Completion of requirements for endorsement in two of the following areas:

Drafting (IAEd 3551; Technology 1511, 1551, and one three-hour elective approved by adviser)

Woodwork (IAEd 3651; Technology 1611 and two three-hour Technology electives approved by adviser)

Metalwork (IAEd 3751; Technology 1711 and two three-hour Technology electives approved by adviser)

Electricity (IAEd 3831; Technology 1811 and two three-hour Technology electives approved by adviser)

*The Minor:* 27 semester hours in Industrial Arts Education and Technology courses as follows:

Industrial Arts Education 2911, 4371

Technology 1511, 1611, 1711, 1811

9 semester hours of electives in the selected subject matter area approved by the Division of Industrial Arts Education.

## DIVISION OF MUSIC EDUCATION

*The Major:* The major requires the completion of (1) a group of basic music courses and (2) a group of courses in one of two concentration areas:

1. Basic music courses (58 semester hours):

Music 1012, 1013, 1032, 1033, 1041, 2014, 2015, 2034, 2035, 3031, 3033, 3035, 3131, 3132, 3235.

Music ensembles: 8 semester hours

Applied music (either class or individual instruction, or both, in piano, voice, winds, strings, as determined by the student's adviser.) For details of piano requirements see page 273.

2. Concentration areas (Choose one.) See page 117 for further information on endorsements.
  - a. School music (9 semester hours)
 

Music 3236

Music Education 1311, 1711, 1911, 4231
  - b. Instrumental music (12 semester hours)
 

Music 3236

Music Education 4232

Individual instruction in one instrument: 6 semester hours

*The Minor:* The minor requires the completion of (1) a group of basic music courses and (2) a group of courses in one of two concentration areas:

1. Basic music courses (33 semester hours)
 

Music 1012, 1013, 1032, 1033, 2014, 2034 (or any combination of basic theory courses totaling 12 semester hours.)

Music 3035, 3131 (or 1041 or 3132) and 3235

Applied music (either class or individual instruction, or both, in piano, voice, winds, strings, as determined by the student's adviser.) For details of the piano requirements see page 273.
2. Concentration areas. (Choose one.)
 

*(The requirements in each of the concentration areas for the minor are the same as for the major, outlined above.)*

**SECONDARY EDUCATION.** The Department of Secondary Education offers majors and minors in secondary education.

*The Major:*

SECONDARY EDUCATION: 27 semester hours, as follows:

Education 2011, 2111, 3121, 4441, 4841, one appropriate secondary school methods course, one elective appropriate for secondary school teachers, and completion of the requirements of general education and two endorsement areas.

*The Minor:* A co-requisite for the minor listed below is the completion of the requirements for certification to teach in the State of Tennessee; these requirements are outlined in the section beginning on page 112.

SECONDARY EDUCATION: Same as secondary education major except only one endorsement required.

**SPECIAL EDUCATION.**

*The Major:* 33 semester hours, as follows:

Speech 2621, SpEd 4151, 4152, 4162, 4163, 4164 or 4165, 4166, 4172, Education 5511 and 6 hours in SpEd 4881 or 4883.

*The Minor:* 21 semester hours in Special Education courses which meet certification requirements in one of the exceptionalities listed on page 113, plus certification in Elementary or Secondary Education.



## DIVISION OF VOCATIONAL AND TECHNICAL EDUCATION

The objectives of this division are (1) to train prospective teachers of vocational and technical programs in high schools, technical institutes, junior colleges, and adult-education programs; (2) to provide graduate study and in-service education for vocational and technical teachers, supervisors, and administrators; (3) to conduct and direct research related to vocational and technical education; and (4) to develop instructional materials for use by vocational and technical teachers.

*The Major in distributive education:*

Education 2011, 2111, 3121, and 4841

Distributive Education 4610, 4630, 5640, and three semester hours of electives of distributive education or education 4301 or 4611

A minimum of 27 semester hours in marketing and business administration (specific courses to be chosen in conference with adviser)

Verified practical experience in a distributive occupation; or Marketing 4991

*The Minor in distributive education:*

Education 2011, 2111, 3121, and 4841

Distributive Education 4630 and 3 additional semester hours in distributive education

10 semester hours in marketing and business management and Verified practical experience in a distributive occupation; or Marketing 4991

# THE HERFF COLLEGE OF ENGINEERING

FREDERIC HARTWELL KELLOGG, G.E., M.A., Ph.D., *Dean*  
*Room 215, The College of Education Building*

THE founding of The Herff College of Engineering was made possible by a gift from the late Herbert Herff of Memphis. The function of the College is to serve the educational and research needs of the industrial community of the metropolitan area, the state, and the Mid-South region. It accomplishes this function by providing (1) undergraduate education in applied science, engineering, and technology; (2) graduate education in applied science and professional engineering; (3) a program of continuing education for the engineering and technological practitioners of the area; (4) assistance in the solution of industrial problems through utilization of physical facilities and the professional talents of faculty; (5) a forum for the interchange of ideas and experiences among members of the industrial community through conferences, institutes, and short courses; and (6) an increase in the body of knowledge in its special fields of interest by a continuing program of study and research.

## Degrees Offered.

The Herff College of Engineering comprises three departments: Engineering and Applied Science, Geology, and Technology.

The engineering programs consist of (1) a four-year curriculum leading to the degree of Bachelor of Arts in Applied Science and (2) a five-year curriculum leading to the professional degree of Bachelor of Engineering.

The geology program consists of a four-year curriculum leading to the degree of Bachelor of Arts in Applied Science.

The technology program consists of a four-year curriculum leading to the degree of Bachelor of Science in Technology.

Requirements for these degrees are outlined in the section beginning on page 169.

## Admission of Freshmen.

All applicants for admission as a freshman in The Herff College of Engineering must meet the general University requirements listed in the section beginning on page 70. In addition, to be ad-

mitted to the regular freshman program in the Departments of Engineering and Applied Science and Geology, the student must present the following high school credits (units):

<i>Subject</i>	<i>Recommended</i>	<i>Minimum</i>
English	4	4
Mathematics	4*	4*
Science	3**	2**
Social Science	2	2
Foreign Language	3***	—
Additional Subjects	—	4
	<hr/> 16	<hr/> 16

### Transfer of Credit.

All students requesting transfer of credit for work done elsewhere toward a degree in The Herff College of Engineering must comply with the general University regulations given in the section beginning on page 71.

### Requirements for the Degrees.

#### BACHELOR OF ENGINEERING

The Bachelor of Engineering degree is a professional degree. The student may major in one of three fields: civil, electrical, or mechanical engineering.

To qualify for the degree of Bachelor of Engineering, the student must complete all of the required courses listed below, with a minimum quality point average of 2.0 (on a scale in which the grade of A has a quality point value of 4; B, 3; C, 2; and D, 1.) In addition, all engineering courses must be completed with a minimum quality point average of 2.0. Detailed requirements are as follows:

#### I. UNIVERSITY REQUIREMENTS

English 1101, 1102, 2101, 2102

History, 2601, 2602

Physical Education (for details, see page 109)

ROTC (for details, see page 109)

#### II. COMMON CORE REQUIREMENTS

Non-technical electives: 24 semester hours (see details on page 171)

Mathematics 1321, 2321, 2322, 3391

Chemistry 1111, 1112

\*Must include 2 units of algebra, 1 unit of geometry, and 1 unit of 12th grade mathematics. Student without 12th grade mathematics must enroll in Mathematics 1212. No student with less than three high school units in algebra and geometry should enroll in this program.

\*\*Must include chemistry and either physics or biology. Students without one unit of high school chemistry may be required to enroll in Chemistry 1100.

\*\*\*Recommended to be in one language.

Physics 2511, 2512

Engineering and Applied Science 2011, 2012, 3001, 3002, 3011, 4011, 4021, 4031, 4061

### III. REQUIREMENTS FOR THE MAJOR

*The major in Civil Engineering:* 42 semester hours, including Engineering and Applied Sciences 4111, 4112, 5101, 5102, 5111, 5112, 5121, 5122, 5131 and 10 semester hours of approved electives.

*The major in Electrical Engineering:* 42 semester hours, including Engineering and Applied Sciences 4001, 4211, 4212, 5201, 5202, 5211, 5212, 5221, 5222, 5231 and 6 hours of approved electives.

*The major in Mechanical Engineering:* 42 semester hours, including Engineering and Applied Sciences 4001, 4311, 4312, 5301, 5302, 5311, 5312, 5321, 5322 and 9 hours of approved electives.

The Engineering faculty reserves the right to change at any time the stated degree requirements and the semester-hour credit for individual courses.

## BACHELOR OF ARTS IN APPLIED SCIENCE

The degree of Bachelor of Arts in Applied Science is a pre-professional degree. The student may major in engineering science or in geology.

To qualify for the degree of Bachelor of Arts in Applied Science, the student must complete 132 semester hours, including all of the requirements listed below, with a minimum quality point average of 2.0 (on a scale in which the grade of A has a quality point value of 4; B, 3; C, 2; and D, 1). In addition, all courses in the major field must be completed with a minimum quality point average of 2.0. Detailed requirements are as follows:

### I. UNIVERSITY REQUIREMENTS

English 1101, 1102, 2101, 2102

History 2601, 2602

Physical Education (for details, see page 109)

ROTC (for details, see page 109)

### II. COMMON CORE REQUIREMENTS

Non-technical electives: 24 semester hours (see details in next section).

Mathematics: 18 semester hours including 1321, 2321, 2322 and 3 semester hours in an upper division elective.

Chemistry 1111, 1112

Physics 2511, 2512

Engineering and Applied Science 2011, 3011, 4021

### III. REQUIREMENTS FOR THE MAJOR

*The major in Engineering Science:* 39 semester hours including Engineering and Applied Sciences 2012, 3001, 3002, 4011, 4031, 4061 and 16 hours of approved electives in engineering, mathematics or science.



*The major in Geology:* 39 semester hours including Geology 1101, 1201, 2311, 2312, 2512, 3712, 4121, and 15 hours of approved electives in engineering, mathematics or science.

#### NON-TECHNICAL ELECTIVES

(for the Bachelor of Arts in Applied Science  
and Bachelor of Engineering)

Each student is required to complete 24 semester hours of non-technical courses in addition to the University requirements in English and history. The non-technical electives must include:

(1) six semester hours of sequential courses in the humanities (art, upper-division English, classical languages, history, modern languages, music, philosophy, psychology, or speech and drama);

(2) six semester hours of sequential courses in the social sciences (anthropology, economics, geography other than physical, history, philosophy, political science, psychology, or sociology);

(3) at least six semester hours of upper division work in either or both of the fields chosen in (1) and (2); and

(4) for those students desiring courses given by The College of Business Administration, not more than six semester hours of sequential courses in accounting, finance, management or marketing.

Electives may be chosen only with the approval of the department chairman or the student's adviser. No courses in fields other than those indicated will be accepted without written approval of the dean.

Study of a foreign language is strongly urged but not required. Those students electing a foreign language must comply with the general foreign language regulations of The College of Arts and Sciences; see page 122.

#### BACHELOR OF SCIENCE IN TECHNOLOGY

To qualify for the degree of Bachelor of Science in Technology the student must complete a minimum of 132 semester hours with a quality point average of 2.0 (on a scale in which an A has the quality point value of 4; B, 3; C, 2; D, 1.) Of the 132 semester hours required for graduation, at least 45 semester hours must be in courses from the upper division (those numbered above 2999.) To be applicable toward a major or a minor all courses taken in the Division of Technology must be completed with a grade of C or better.

General requirements for the degree include the successful

completion of (I) basic University requirements, (II) a major in technology, (III) a minor in another department of the University, and (IV) approved elective courses. These requirements are outlined in detail in the sections which follow:

#### I. BASIC UNIVERSITY REQUIREMENTS

All of these requirements must be completed before the student will be permitted to enroll in any senior courses (those numbered above 3999.)

English 1101, 1102, 2101, 2102

History 2601, 2602

Physical Education

Air Force ROTC (for men only)

#### II. THE MAJOR

Each candidate must complete a major in one of the following areas, detailed requirements for which will be found below.

Architectural technology

Construction technology

Drafting and design technology

Electronics technology

Industrial Arts Education

Industrial Safety

Manufacturing technology

Wood technology

#### III. THE MINOR

Each candidate must complete a minor as prescribed.

#### IV. ELECTIVES

The candidate will elect courses with the approval of the major adviser from any department in any college of the University to bring the total to 132 semester hours.

## Requirements for Majors and Minors in Technology.

### THE MAJORS:

**ARCHITECTURAL TECHNOLOGY:** This major is designed for students wishing to specialize in technology as it relates to architecture. Emphasis is placed on the technological and applied approach, with lesser emphasis on theory. Specific requirements for this major are:

Technology: 60 semester hours as follows: 1411, 1451, 1551, 1611\*, 1711\*, 1811\*, 2411, 2431, 2551, 2555, 2561, 3387, 3401, 3411, 3471, 3491, 3521, 3531, 3532, 4515.

Art or Mathematics: Completion of a minor in one of these departments.

Mathematics (if not selected as a minor: 1212, 1321).

Art, (if not selected as a minor: 9 semester hours as prescribed by adviser).

Business Speech: 3 semester hours

Secretarial Science: 1210\*

Economics: 6 semester hours.

Physics: 6 semester hours.

Marketing: 3 semester hours.

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\*On approval of adviser.

**CONSTRUCTION TECHNOLOGY:** This major is designed for students wishing to specialize in construction, with emphasis on surveying and related fields. Specific requirements for this major are:

Technology: 60 semester hours as follows: 1411, 1451, 1551, 1611\*, 1711\*, 1811\*, 2431, 2451, 2511, 2555, 2591, 2811, 3387, 3401, 3411, 3431, 3451, 3471, 3491, 3531, 3532.

Management, Marketing or Mathematics: Completion of a minor in one of these departments.

Mathematics: 1212, 1321, 8 semester hours.

Business speech: 3 semester hours.

Secretarial Science: 1210\*

Economics: 6 semester hours.

Physics: 6 semester hours.

Management: Business Law 6 semester hours, real estate and real estate law, 6 semester hours.

**DRAFTING AND DESIGN TECHNOLOGY:** This major is designed for students interested in professional training in drafting and design: a close correlation is maintained with programs in local industry in order that emphasis may be placed on current design problems, methods and practices. Specific requirements for the major are:

Technology: 51 semester hours as follows: 1411, 1511, 1521, 1551, 1611\*, 1711\*, 1811\*, 2431, 2511, 2531, 2551, 2561, 3411, 3571, 3591, 4471, 4491.

Art, management, marketing or mathematics: Completion of a minor in one of these departments.

Art, 9 semester hours if not selected as minor\*

Management, 9 semester hours if not selected as minor\*

Marketing, 9 semester hours if not selected as minor\*

Mathematics, 9 semester hours if not selected as minor\*

Business speech, 3 semester hours.

Secretarial Science, 1210\*

Economics, 6 semester hours.

Physics, 6 semester hours.

Psychology, 9 semester hours.

**ELECTRONICS TECHNOLOGY:** This major is designed for students interested in technology as it relates to electronics. It provides both theoretical and applied techniques as related to computers, quality control, radar, microwaves, instrumentation, technical writing, and other activities associated with electronics. Specific requirements for this major are:

Technology: 48 semester hours as follows: 1411, 1511, 1811, 2411, 2431, 2811, 2821, 3386, 3411, 3531, 3811, 3821, 4471, 4811, 4831, 4832.

Mathematics minor.

Management, 6 semester hours.

Economics, 6 semester hours.

Speech, 3 semester hours.

Physics 1111 and 1112, 6 semester hours.

Psychology, 9 semester hours.

**INDUSTRIAL ARTS EDUCATION:** This major is designed for students planning on a teaching career in Industrial Arts, with the emphasis on the secondary school program. Specific requirements for this major are:

\*On approval of adviser.

A minimum of 42 semester hours in Technology, including 1511, 1611, 1711, 1811, and Industrial Arts Education 2911, 4361, 4371 and 4375.

Completion of requirements for endorsement in two of the following areas:

Drafting, 1551, 3551, and one three-hour course as selected by adviser.

Electricity, 3831, and two three-hour courses as selected by adviser.

Metal, 3751, and two three-hour courses as selected by adviser.

Wood, 3651, and two three-hour courses as selected by adviser.

**INDUSTRIAL SAFETY:** This major is designed for students planning to work in industry as directors of safety programs. Emphasis is placed, through an interdisciplinary approach, on the psychological and sociological significance of personalized safety procedures. Specific requirements for this major are:

Technology: 42 semester hours as follows: 1411, 1511\*, 1611\*, 1711\*, 2411, 2431, 2611, 2721, 2811, 3386, 3387, 3411, 3421, 4381, 4471, 4944, 4951, 4952, 4953, 4954.

Management or Psychology: Completion of a minor in one of these departments.

Management: 2711, 3711, and 3810 if not selected as minor.

Psychology: 1101, 1102, 2101, if not selected as minor.

Mathematics: 1212 and 1321.

Economics: 2110 and 2120

Secretarial Science: 1210\*

Business Speech

Physics, 6 semester hours

Chemistry, 8 semester hours

Health, 2102

Industrial Arts Education, 3385

**MANUFACTURING TECHNOLOGY:** This major is designed for students wishing to participate in industry as technologists; emphasis is placed on training for manufacturing and production, with additional emphasis on the techniques and procedures of industrial engineering. Specific requirements for this major are:

Technology: 48 semester hours, as follows: 1411, 1451\*, 1511\*, 1611\*, 1711\*, 1811\*, 2411, 2431, 2511, 3386, 3401\*, 3411, 3421, 3571, 3731, 4381, 4471, 4472, 4481, 4491.

Management, mathematics or safety: completion of the requirements for a minor in one of these departments.

Management, mathematics or safety: 6 semester hours in the departments not selected as the minor.

Physics: 6 semester hours

Chemistry: 4 semester hours

Economics: 6 semester hours

Mathematics: 6-10 semester hours

Psychology: 9 semester hours

Speech: 3 semester hours

**WOOD UTILIZATION:** This major is designed for students interested in the lumber industry, with emphasis on the processing and use of lumber and wood products. Close contacts are maintained with local industry; the Memphis Lumberman's Club provides the services of an advisory committee, as well

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\*On approval of adviser.



as guest speakers; and the National Hardwood Inspection School also co-operates with this major. Specific requirements for this major are:

Technology: 51 semester hours as follows: 1411, 1511, 2431, 2611\*, 2651, 2811, 3386, 3401, 3411, 3421, 3631, 4381, 4471, 4481, 4491, 4661.

Chemistry, management or marketing: Completion of a minor in one department.

Chemistry, 8 semester hours if not selected as minor.

Management, 9 semester hours if not selected as minor.

Accounting, 6 semester hours if not in minor.

Business speech, 3 semester hours.

Data Processing, 3 semester hours.

Economics, 6 semester hours if not in minor.

Mathematics 1212 and 1321.

Physics, 6 semester hours.

### THE MINORS:

#### INDUSTRIAL ARTS EDUCATION:

Technology 1511, 1611, 1711, 1811

Industrial Arts Education 2911, 4371

Nine additional semester hours in any one of the areas of drawing, electricity, metal or wood.

#### SAFETY:

Technology, 3386, 3387, 4951, 4952, 4953, 4954

Health, 2101

Psychology, 2102

Management, 3810

Industrial Arts Education, 3385.

#### SURVEYING:

Geography, 3501, 3511

Technology, 1411, 1451, 1511, 2451, 2591, 3451

Mathematics, 1212, 1321

#### TECHNOLOGY:

Technology, 1411, 1511 and 15 additional semester hours in technology courses, 9 semester hours of which must be from the upper division.

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\*On approval of adviser.

# THE SCHOOL OF LAW

ROBERT DOYLE COX, LL.B., LL.M., *Dean*

*Room 209, Law School Building*

THE School of Law offers a program of instruction leading to the degree of Juris Doctor. A student may enroll in a regular program, attending classes during the day, or in an extended program, attending classes in the evening. A student in the regular program may graduate in three academic years. A student in the extended program may graduate in four academic years plus work in summer sessions. A student regularly employed more than 20 hours per week may not pursue the regular program.

To be eligible for admission a student must have received a bachelor's degree in an appropriate discipline from an accredited college or university and must have made a satisfactory score on the Law School Admission Test administered by the Educational Testing Service, Princeton, New Jersey. Admission to The School of Law is on a selective basis.

Admission to advanced standing may be given to a student who qualifies for admission, and who is eligible for re-enrollment in the law school in which his previous work has been taken, provided that such school is on the approved list of the American Bar Association.

The successful completion of 84 semester hours work, including all required courses, with the prescribed grade average is necessary for graduation. The last 28 semester hours must be taken in this school.

The regulations and policies of The School of Law are set out in greater detail in a separate bulletin. Applications for admission must be made on forms supplied by The School of Law. Inquiries should be addressed to the Dean of The School of Law.

# THE DIVISION OF CONTINUING STUDIES

WILLIAM A. BROTHERTON, B.S., M.A., Ed.D., *Director*  
*Room 221, Administration Building*

The Division of Continuing Studies offers five types of instructional services, supplementing the traditional full-time day program. Each of these services is designed to increase the availability of the faculty and the facilities of the University to individuals and groups in the Mid-South area.

## Evening Division.

Courses at night are offered in each of the colleges and schools of the University, both on the main campus and at the Downtown Center. A major objective is to provide instruction leading to baccalaureate degrees for those who, for a variety of reasons, are not able to attend classes during the daytime. Residence credit is granted. Programs include (a) formal courses for students already holding college degrees but desirous of further education (b) adult vocational-technical training for those seeking upgrading or change in employment (c) basic lower-division and pre-professional schools and (d) an extended general education for those interested in increasing their civic and social competence.

Admission requirements for evening courses are the same as for those for the regular day program; they are outlined on page 70. For admission of Adult-Special students, see page 73. Standards of instruction and student performance are maintained at the same level established for the day program.

Fees for evening courses, for both part-time and full-time students, are the same as those in the day program; see page 78 for details. Students may arrange their schedules to take courses in both the day and evening programs without additional cost. Announcement of evening courses is made in the Schedule of Classes at the beginning of each semester.

## The Summer Session.

Consisting of two terms of approximately six weeks each, The Summer Session offers accelerated courses in all colleges, schools, and departments of the University. Students may earn 12 semester hours of graduate credit or 14 hours of undergraduate credit during the summer, with a maximum of six hours per term for

graduate students and seven semester hours per term for undergraduate students. Applicants for admission to The Summer Session may apply for one of several student classifications as defined in the Catalog. A transfer student who plans to attend Memphis State University *only* in The Summer Session need not submit complete transcripts from schools previously attended; he should request the registrar of the last college attended to mail a statement of good standing to the registrar of Memphis State University. This statement should include the student's classification.

The Bulletin of The Summer Session, containing the schedule of classes and information concerning registration procedures, fees, special events, etc., is issued in April of each year. Copies are available in the offices of the Dean of Admissions and the Director of Continuing Studies.

### **Extension Division.**

This is the official avenue through which services of the University are extended to areas off the campus. Both undergraduate and graduate courses are given at centers within the state where suitable advance arrangements are made. The subject matter of the extension courses is the same as that of courses taught on the campus, and grades received in these courses have the same quality value as do grades received in courses taught on the campus.

Candidates for degrees at Memphis State University may take a limited amount of work through The Extension Division; regulations governing the use of extension credit will be found on page 103.

Where circumstances justify, The Extension Division attempts to provide various types of help to organized groups within the University's service area. This assistance may take the form of such activities as conferences, public addresses, consultative service, and other types of school and community aid. Regularly employed staff members of the University are available for this service.

To the end that The Extension Division may continue to improve and expand its services to the people of the state, correspondence is invited with groups or individuals who are interested in any phase of its activities. Please address all inquiries and suggestions to The Extension Division.

### **Conferences and Institutes.**

This service provides non-credit courses in various vocational, technical, and general education fields. It assists state agencies, educational institutions, recognized civic organizations, profes-



sional groups, and departments of the University in the development and presentation of educational conferences so as to provide a wide variety of educational opportunities for adults throughout the Mid-South.

The staff of the department will assist in planning programs, preparing and distributing printed materials, engaging speakers, handling registration, and other matters pertaining to conferences and institutes.

Professional, business and cultural groups who wish to avail themselves of the services of the teaching staff and the facilities of the University, either on or off the main campus, are welcome to schedule instructional meetings through the Department of Conferences and Institutes.

### **Special Interest, Non-Credit Courses.**

These classes are for men and women who have a particular interest in a subject and a desire to learn more about that subject but who do not wish to engage in the formalities of registration, grades and examinations. The courses offered do not duplicate credit courses which are described in the Catalog. Announcements of special interest, non-credit courses to be offered are issued before the beginning of each semester in a special brochure and through news media of the Mid-South.

## DIVISION FOR REGIONAL AND URBAN STUDIES

PAUL RUSSELL LOWRY, B.S., M.B.A., *Director*

*Scates Hall*

The Division for Regional and Urban Studies was created at Memphis State University in the belief that a regional and urban university must make substantial contribution to the economic, social, and cultural growth of its state, the cities, and the region which it serves. The overall purpose of the Division is the mobilization and coordination of the efforts of different University agencies. The Division provides a center for interdisciplinary studies which serve communities, local and state governments, industries, and commercial firms. All of the agencies of the Division support industrial development organizations, chambers of commerce, and state and local governments in their efforts to benefit the economic development of Tennessee and the Mid-South.

Departments within the Division are the Bureau of Business and Economic Research, the Regional Economic Development Center, the Bureau of Public Administration, the Bureau of Social Research, the Institute for Urban Development, and the Regional Economics Library. The University Computer Center is an adjunct to the Division, and its full capability is available for any research undertaken. The Division may draw upon the resources of the total University faculty where and when special talent is needed; it also maintains consulting and working arrangements with private and public research organizations outside the University.

### **Bureau of Business and Economic Research.**

The Bureau of Business and Economic Research conducts research designed to contribute to economic and business knowledge. The primary emphasis of the Bureau effort is on Memphis, Tennessee, and the Mid-South. The Bureau has four specific functions:

1. To develop and disseminate data on current business and economic conditions.
2. To furnish to business concerns and governmental agencies special studies which will contribute to economic development.
3. To develop economic base studies for various counties and regions in an effort to help them plan the economic development of their area.

4. To train graduate students in business and economic research and to provide research facilities for faculty members.

### **Regional Economic Development Center.**

The Regional Economic Development Center reflects the University's growing concern about problems of regional economic development, and the belief that the University can play a leading role in shaping the future of the region it serves. The general objectives of the Center are to encourage new job creation within the community and to accelerate appropriate action by both the public and private sectors of the economy to stimulate private investment.

The Center provides services in the following specialized areas at no cost to the recipients in Middle and West Tennessee and Shelby County:

1. Management counseling and assistance to small businessmen in every aspect of their firm's inception, development, and expansion.
2. Specialized research to determine the market feasibility of developing new products and using existing resources.
3. Assistance to local governments in making better use of developmental programs.
4. Training and seminars for industrial and community leaders and agencies to acquaint them with the developmental process.

### **Bureau of Public Administration.**

The Bureau of Public Administration conducts a continuous program of research seeking the application of new governmental management techniques to better the local governments in Shelby County, West Tennessee, and the Mid-South. The Bureau works closely with the faculty of other University units, especially the Departments of Political Science, Economics, Management, Accounting, and Sociology. The functions of the Bureau include the following:

1. To conduct basic and applied research in the various areas of Public Administration, such as governmental budgeting, purchasing, debt policy, property evaluation, and personnel management.
2. To render consulting services and advice upon the request of counties, municipalities, and other local governments.
3. To provide research experience in the area of public service to graduate students, especially those interested in a public service career in Tennessee.

4. To conduct post-graduate and professional training programs, institutes, and seminars for those already in public service.
5. To provide information to local government officials and to periodically publish summaries and abstracts of articles describing improvements and new thought in scientific governmental management, methods, and procedures.

### **Bureau of Social Research.**

Research of this Bureau is designed to develop an awareness and knowledge of community social conditions and problems. The efforts of the Bureau of Social Research focus primarily on the Memphis metropolitan area, Tennessee and the general region influenced by the Memphis area. Specific functions are:

1. To conduct and publish research aimed at increasing the knowledge and understanding of the nature and demands of social life.
2. To provide expert advice and services for community agencies conducting research into social conditions and problems.
3. To aid community and University groups and individuals in the preparation of research proposals and the design of research projects.
4. To provide practical training and experience in research techniques and practices for students in the social sciences.
5. To provide the opportunity for faculty members of Memphis State University to acquire research experience.
6. To encourage interdisciplinary research in the social sciences with cooperation among sociologists, anthropologists, psychologists, political scientists, historians, and geographers.

### **Institute for Urban Development.**

The Institute for Urban Development analyzes basic problems of urban structure through continuing programs of research and extension. The Institute was established in response to the increasing demand that institutions of higher education become involved in the attempts to revitalize America's cities. The primary objective of the Institute, in its research and extension, is to aid citizens and public officials in their understanding and resolution of regional urban problems. The major emphasis of the Institute program is Memphis and its immediate environs in West Tennessee and the Mid-South. In many cases, however, the activities of the Institute will have a broader scope and application. Research develops basic



economic data, useful to local community development and planning organizations. The extension programs include workshops, seminars, conferences, and short courses designed to assist the public in the recognition of local problems and the construction of potential solutions. The accumulated data acquired by research will be developed into a data bank utilizing the University Computer Center for storage and retrieval of information.

### **Regional Economics Library.**

The Regional Economics Library services all departments of the Division for Regional and Urban Studies. The library contains approximately 20,000 books, censuses, periodicals, studies, and brochures, and has numerous files which contain statistical data provided by national, state, and local sources. In addition to regional economic data, there is also extensive information available on business, agriculture, labor, population, finance, government, and resources. Much of the data refer to conditions in Tennessee and the Mid-South, although other data are collected for comparison and study purposes. There is a working arrangement between this library and the main library of Memphis State University, and books and other information available in the Cossitt-Goodwyn Technical Library of Memphis can be obtained on a loan arrangement.

# THE DEPARTMENT OF AEROSPACE STUDIES

JACK E. CARTER, B.G.E., M.A., *Colonel*

*United States Air Force, Professor of Aerospace Studies*

*Room 404, Jones Hall*

The Department of Aerospace Studies provides a four-year program of instruction divided into two phases, each of two years duration. The first, termed the General Military Course, offers instruction in the foundation of leadership and Aerospace-age citizenship. The second, termed the Professional Officer Course, builds upon these foundations in developing upperclassmen who are to become Air Force officers and serve on active duty upon graduation and commissioning.

Instruction in Aerospace Studies has been an important phase of the curriculum at Memphis State University since 1951. Active duty Air Force personnel, approved by the University President, are detailed by the Department of the Air Force to administer the instructional program. Air Force officers serve under appointment by the University as Professor or Assistant Professor of Aerospace Studies.

**THE GENERAL MILITARY COURSE:** The two-year (4 semesters) General Military Course consists of one hour a week of classroom instruction and one hour a week of Corps Training. Textbooks are furnished by the Air Force without charge. Uniforms for cadets are furnished by the University and are purchased from an allowance provided by the Air Force. The uniforms are the regulation uniforms of the United States Air Force and must be properly worn and kept in good condition. A uniform deposit is required for all cadets at the time of registration. Cadets who successfully complete the General Military Course may apply for admission to the Professional Officer Course (Advanced ROTC).

**THE PROFESSIONAL OFFICER COURSE:** The Professional Officer Course provides instruction and systematic training to selected eligible students who desire to qualify as officers in the United States Air Force while pursuing their academic studies at the University. Successful completion of the requirements for the Professional Officer Course and for a baccalaureate degree leads to a commission in the United States Air Force as a Second Lieutenant. To be eligible for selection to the Professional Officer Course, a student (undergraduate or graduate), must have successfully completed the General Military Course or its equivalent (see the two-year program below for information about transfer

and graduate students who were unable to complete the General Military Course). In addition, a cadet must have earned credit for at least 55 semester hours of academic work and be enrolled in his junior year with at least two years remaining at the University. Final selection is based on academic standing, leadership potential, percentile score on the Air Force Officer Qualifying Test, and physical qualifications. Senior cadets who are enrolled in the pilot category will engage in a flying program consisting of 36½ hours of flight instruction and 2 semester hours of Elementary Aeronautics (AS 4413). Members of the Professional Officer Course receive a subsistence allowance of \$50.00 per month and are issued uniforms provided by the University.

**THE TWO-YEAR PROGRAM:** Transfer and graduate students who were unable to complete the General Military Course, but who meet other qualifying criteria, may apply for selection to the Professional Officer Course under the Two-Year Program. Applications must be received not later than March 1 of each year. If selected, the student will attend a six-week field training encampment during the summer prior to entry into the Professional Officer Course. Graduates of the six-week field training are enrolled in the Professional Officer Course with the same status as cadets in the four-year program.

**BASIS FOR EXEMPTION FROM GENERAL MILITARY COURSE:** Normally students in the following categories are exempt from the University ROTC requirement: (1) A student who has completed the General Military Course or its Army or Navy ROTC equivalent at other schools (a transfer student admitted with 55 or more semester hours credit is exempt from the Aerospace Studies requirement); (2) veterans and certain members of the Armed Forces Reserve (members of the Reserve Forces may be exempt if they have served a period of at least four months continuous active duty); (3) a student who is medically or physically handicapped for any reason (the handicap must be verified by the University Health Center); (4) conscientious objectors; (5) non-citizens. **NOTE:** Exemptions are not granted automatically. At registration, students must present fully documented evidence in support of a request for exemption.

**MILITARY DEFERMENTS:** All cadets enrolled in the Professional Officer Course are granted a military deferment. Cadets enrolled in the General Military Course whose academic standing, leadership potential, Air Force Officer Qualifying Test scores and medical qualifications meet entrance requirements, are granted a military deferment upon application for the Professional Officer Course. Deferments remain in effect as long as the cadet continues in good standing and is enrolled in the Air Force ROTC Program.

# THE DEPARTMENT OF NURSING

PEGGY NORMAN, B.S.N., R.N., M.S.N.Ed., *Chairman*  
*Room 303, Clement Hall*

The Department of Nursing is an integral part of the University and functions within the general framework of its policies, purposes and standards. The Associate Degree in Nursing program at Memphis State University was established to provide residents of the area an opportunity to prepare themselves to meet a critical nationwide need for nursing services. It is felt that education in nursing should be centered in an institution of higher learning in order to more effectively meet the health needs of a complex and ever changing society.

The Department of Nursing has been granted initial approval by the Tennessee Board of Nursing. The Department and the University hold agency membership in the National League for Nursing, and the National League for Nursing Council of Associate Degree Programs.

All applicants for admission to the Associate Degree in Nursing program must meet the general University requirements listed in the section beginning on page 70. In addition, a personal interview by a member of the Nursing Department is required.

A tuberculin test is required prior to admission to the program in nursing. Uniforms are purchased at the beginning of the program.

## REQUIREMENTS FOR ASSOCIATE DEGREE

### FIRST YEAR

#### *First Semester*

Biology 1731 (4)  
Home Economics 2202 (3)  
Education 2111 (3)  
Nursing 1001 (3)  
Physical Education (any 1000 course)  
(1)

#### *Summer Session, First Term*

Psychology 1101 (3)  
Philosophy 1611 (3)

#### *Second Semester*

Biology 1732 (4)  
Biology 1400 (4)  
Nursing 1002 (5)

#### *Summer Session, Second Term*

Psychology 1102 (3)  
\*Elective (3)

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\*Speech 1311 or 1011 recommended for those who have not had Speech in high school. If Speech was taken in high school, the elective may be Art 1101 or Music 1131.



## SECOND YEAR

*First Semester*

Sociology 1111 (3)

English 1101 (3)

Nursing 1102 (10)

*Summer Session, First Term*

Nursing 2102-I (5)

*Second Semester*

English 1102 (3)

Nursing 2001 (10)

\*\*Elective (3)

*Summer Session, Second Term*

Nursing 2102-II (5)

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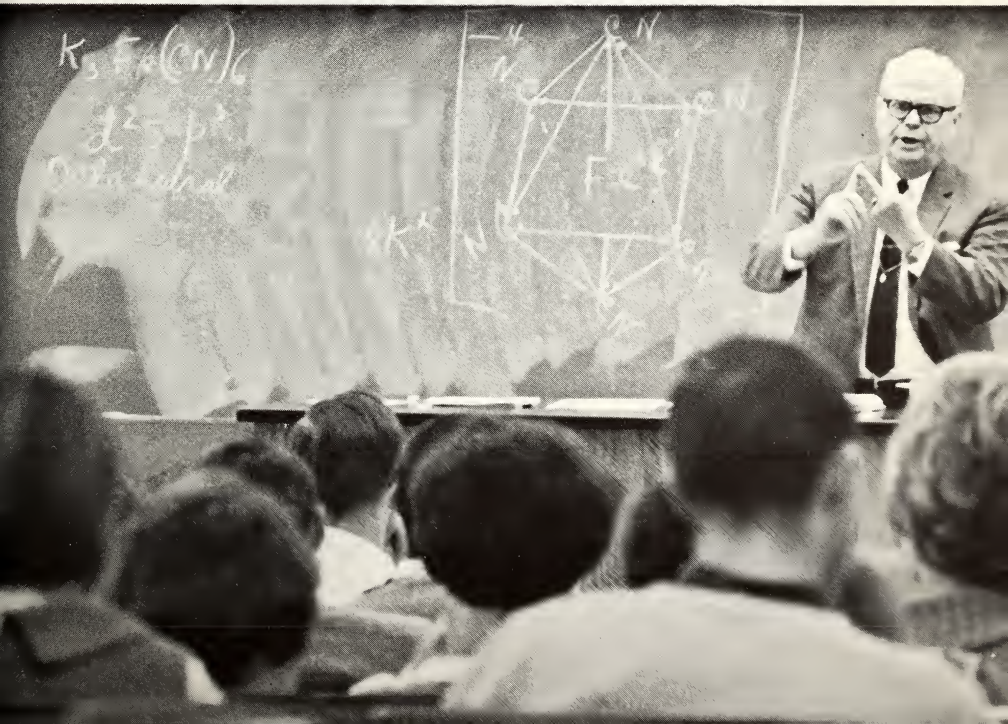
\*\*History 1301, 1302, or Political Science 1101.

*Lecture sessions in Chemistry (opposite page) and other sciences are supplemented by laboratory study. Courses are offered in many academic disciplines and areas of the University.*

II B	III A	IV A	V A	VI A	VII A	0
						2 He 4.0
	5 B 10.8	6 C 12.0	7 N 14.0	8 O 16.0	9 F 19.0	10 Ne 20.2
	13 Al 27.0	14 Si 28.0	15 P 31.0	16 S 32.1	17 Cl 35.5	18 Ar 39.9
30 Zn 65.4	31 Ga 69.7	32 Ge 72.6	33 As 74.9	34 Se 79.0	35 Br 79.9	36 Kr 83.8
48 Cd 112.4	49 In 114.8	50 Sn 118.7	51 Sb 121.8	52 Te 127.6	53 I 126.9	54 Xe 131.3
80 Hg 200.6	81 Tl 204.4	82 Pb 207.2	83 Bi 209.0	84 Po (210)	85 At (210)	86 Rn (222)
65 Tb 158.9	66 Dy 162.5	67 Ho 164.9	68 Er 167.3	69 Tm 168.9	70 Yb 173.0	71 Lu 175.0
97 Bk (249)	98 Cf (251)	99 Es (254)	100 Fm (253)	101 Md (256)	102 No (254)	103 Lw (257)

# Description of Courses

# 9



**T**HE SECTION which follows contains an alphabetical listing of all departments in the University and a description of all course offerings. The official course title appears in bold-face type following the course number. The figures in parentheses after the description of a course denote the number of semester hours of credit for that course. If the credit is variable, to be fixed in consultation with the instructor, that fact is indicated by the minimum and maximum credit, as Biology 4000 (2 to 4).

Courses are numbered according to the following system:

1000-1999	<i>Courses primarily for freshmen</i>	(formerly 100-199)
2000-2999	<i>Courses primarily for sophomores</i>	(formerly 200-299)
3000-3999	<i>Courses primarily for juniors</i>	(formerly 300-399)
4000-4999	<i>Courses primarily for seniors and for which graduate credit is not offered</i>	(formerly 400-499)
5000-5999	<i>Courses offered in The Graduate School but open to seniors within 36 semester hours of graduation</i>	(formerly S500-S599)
6000-6999	<i>Senior courses open to graduate students</i>	(formerly G400-G499)
7000-7999	<i>Courses open only to graduate students</i>	(formerly 500-599)

Course numbers have no reference to the semester in which the courses are taught.

The Schedule of Classes is published a few weeks prior to the opening of each semester and The Summer Session. It contains a listing of the specific courses to be offered, with the time, place, and instructor in charge of each section. It also contains special announcements concerning registration procedures. Copies are available in the office of the Dean of Admissions and Records.

#### IMPORTANT NOTICE

All courses in the curriculum were renumbered in the 1965-66 catalog according to a four-digit system. The three-digit figure in parentheses at the extreme right of the course title indicates the number which that course carried in the 1964-65 catalog.



# ACCOUNTANCY

PROFESSOR JAMES THOMAS THOMPSON, *Chairman*  
*Room 103, The College of Business Administration Building*

Requirements for the major and minor in accountancy are listed on page 149.

- 2010. Fundamentals of Accounting I. (3). (201)**  
 Basic principles, journalizing and posting, the accounting cycle, accruals and deferments, valuation accounts, special journals including the voucher register. Both semesters.
- 2020. Fundamentals of Accounting II. (3). (202)**  
 Payrolls, taxation, partnership, corporations, further applications of accounting theory. Both semesters. PREREQUISITE: Accounting 2010.
- 2720. Accounting Laboratory. (1). (272)**  
 The working of a practice set involving current accounting practice. Both semesters. PREREQUISITE: Accounting 2010.
- 3110. Intermediate Accounting I. (3). (311)**  
 Accounting records, end-of-period procedure, corrections of prior periods, accounting statements, comparative statements, working capital, miscellaneous ratios, profit and loss analysis, corporations. Both semesters. PREREQUISITE: Accounting 2020.
- 3120. Intermediate Accounting II. (3). (312)**  
 Cash and receivables, inventories, tangible operating assets, intangibles, investments, liabilities, reserves and valuation accounts, net income determination, statement of source and application of funds. Both semesters. PREREQUISITE: Accounting 3110.
- 3210. Financial Statement Analysis. (3). (321)**  
 Nature and scope of financial reports, business ratios, effectiveness of analysis techniques, interpretation of financial reports, study of typical statements. Fall semester. PREREQUISITE: Accounting 2020.
- 3240. Internal Auditing. (3). (324)**  
 Review and appraisal of internal accounting procedures of businesses, verification and analysis of financial and operating reports, function and organization of the internal auditing department. Spring semester. PREREQUISITE: Accounting 3120.
- 3310. Cost Accounting I. (3). (331)**  
 Material inventory records, inventory evaluation, accounting for labor, distribution of manufacturing costs, introduction to process cost. Both semesters. PREREQUISITE: Accounting 2020.
- 3320. Cost Accounting II. (3). (332)**  
 Process costs, estimated costs, standard costs, budgets. Both semesters. PREREQUISITE: Accounting 3310.
- 4210. Advanced Accounting I. (3). (421)**  
 Partnerships, consignments, installment sales, insurance, statement of affairs, receiver's accounts, statement of realization and liquidation, annuities, estates and trusts. Fall semester. PREREQUISITE: Accounting 3120.

- 4220. Advanced Accounting II. (3). (422)**  
Agencies, home and branch offices, consolidations, mergers, foreign exchange. Spring semester. PREREQUISITE: Accounting 3120.
- 4240. Auditing I. (3). (424)**  
Ethics in accounting practices, auditing standards and procedures, programs of audit of various accounts, construction and indexing of various papers, reports to clients. Fall semester. PREREQUISITES: Accounting 3120, 3320.
- 4250. Auditing II. (3). (425)**  
Application of auditing principles to verification of financial statements, preparation of reports, case studies applicable to specific industries, current trends. A practice audit is carried out. Spring semester. PREREQUISITE: Accounting 4240.
- 4450. Accounting Systems. (3). (445)**  
Problems involved in designing accounting installations for various types of business, including the designing of clerical departments and planning of required mechanical devices. Spring semester. PREREQUISITE: Accounting 3120.
- 4460. Controllership. (3). (446)**  
Training in the field of administrative accounting, duties and functions of the controller, organization of the controller's office. Fall semester. PREREQUISITE: Accounting 3320.
- 4510. Federal Income Tax I. (3). (451)**  
Regulations pertaining to individuals and partnerships. Fall semester. PREREQUISITE: Accounting 3120, or permission of the instructor.
- 4520. Federal Income Tax II. (3). (452)**  
Laws and regulations for corporations, estates, and fiduciaries. Spring semester. PREREQUISITE: Accounting 4510.
- 4540. Governmental Accounting. (3). (454)**  
Accounting theory and practice applicable to federal, state, and local government; and to nonprofit institutions; budgetary control; control, classification, and use of funds; financial statements and reports. Fall semester. PREREQUISITE: Accounting 3120.

*(The following courses, offered in The Graduate School, are open to undergraduates within 36 semester hours of graduation. None of these courses carries graduate credit nor is applicable to any degree offered in The Graduate School.)*

- 5110. Accounting Theory I. (3). (S-511)**  
A study of the broad aspects and objectives of accounting with emphasis on generally accepted accounting principles, modern accounting trends, and contemporary controversial topics through a study of current releases of the American Institute of Certified Public Accountants, the American Accounting Association, and other research related to changing accounting concepts. PREREQUISITE: Accounting 4220, or permission of the instructor.
- 5120. Accounting Theory II. (3). (S-512)**  
A further study of the development of accounting theory and the influence of professional accounting societies and regulatory agencies upon the accounting profession. PREREQUISITE: Accounting 5110.

## ACCOUNTANCY

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- 5240. Advanced Auditing. (3). (S-524)**  
Review and refinement of generally accepted auditing standards, procedures and extension of auditing procedures; preparation of audit reports and study of special investigations; study of auditing research bulletins of the American Institute of Certified Public Accountants, and pronouncements of the S.E.C. and other regulatory agencies. PREREQUISITE: Accounting 3240 or 4240 or permission of instructor.
- 5310. Standard Cost. (3). (S-531)**  
Budgets, determination of standards, variances and their functions, cost reports, profit projecting. PREREQUISITE: Accounting 3320.
- 5510. Advanced Taxation. (3). (S-551)**  
Selected research and study in the taxation of individuals and business organizations by federal and state governments; preparation of selected state and federal tax returns including those associated with income, excise, gift, death, sales, and payroll; tax practice and procedures. PREREQUISITE: Accounting 4520 or permission of instructor.
- 5810. Internship in Accounting. (3). (S-581)**  
Seniors majoring in public accounting, after receiving approval of the accounting faculty, are placed in offices of cooperating public accounting firms to receive on-the-job training under the direct supervision of a certified public accountant and the general supervision of the University accounting staff. Credit is allowed upon acceptance of report of work done, verified by supervising accountant, and completion of a qualifying examination. Minimum time: 500 hours. Both semesters.
- 5830. Current Accounting Problems I. (3). (S-583)**  
Review of C. P. A. Examination, including theory of accounts, accounting practice, and auditing. Open to persons with substantial accounting backgrounds, and on permission of instructor. Spring semester.
- 5840. Current Accounting Problems II. (3). (S-584)**  
Continuation of study of current accounting problems encountered in C.P.A. examinations; review of business law relating to C.P.A. examinations with emphasis on the Uniform Commercial Code; brief review of accounting theory as it pertains to the C.P.A. examination. PREREQUISITE: Permission of instructor.

*Graduate courses in Accountancy: Some of the courses described in the preceding section may be taken for graduate credit. For further details of the graduate program see The Bulletin of The Graduate School.*

## AEROSPACE STUDIES

COLONEL JACK E. CARTER

*Professor of Aerospace Studies*

*Room 404, Jones Hall*

Details of the Air Force ROTC program are on page 184.

### GENERAL MILITARY COURSE

- 1111. World Military Systems. (1½).**

An introductory course exploring the causes of the present world conflict, the role and relationship of military power to that conflict, and the responsibilities of an Air Force Officer; this includes a study of

the interrelationship of national power factors; a comparative analysis of the Democratic, Fascist, and Communist ideologies; patterns of conflict relative to the confrontation between opposing ideologies; and the role of military power as a facet of national policy. A study of world military forces is begun through treatment of the U.S. Department of Defense and the doctrine, mission and functions of the United States Air Force.

*One class hour per week and one hour of Corps Training.*

**1112. World Military Systems. (1½).**

A continuation of Aerospace Studies 1111.

*One class hour per week and one hour of Corps Training.*

**2211. World Military Systems. (1½).**

A continuation of the study of world military forces and the political-military issues surrounding the existence of these forces. This includes a study of the United States Army and the United States Navy, their doctrines, missions and employment concepts; a study of the military forces of NATO, CENTO, SEATO, and their role in free world security; and an investigation of the military forces of the USSR, the Soviet Satellite Armies, and the Chinese Communist Army. This course concludes with an analysis of the trends and implications of world military power.

*One class hour per week and one hour of Corps Training.*

**2212. World Military Systems. (1½).**

A continuation of Aerospace Studies 2211.

*One class hour per week and one hour of Corps Training.*

### PROFESSIONAL OFFICER COURSE

**3311. Growth and Development of Aerospace Power. (3).**

A survey course concerned with the development of airpower in the United States; mission and organization of the Defense Department; Air Force concepts, doctrine, and employment; astronautics and space operations; and the future development of aerospace power.

*Three class hours per week and one hour of Corps Training.*

**3312. Growth and Development of Aerospace Power. (3).**

A continuation of Aerospace Studies 3311.

*Three class hours per week and one hour of Corps Training.*

**4411. The Professional Officer. (3).**

A study of professionalism, leadership and management. This study includes the meaning of professionalism, professional responsibilities, the military justice system; leadership theory, functions and practices; management principles and functions; problem solving; and management tools, practices and controls.

*Three class hours per week and one hour of Corps Training.*

**4412. The Professional Officer. (3).**

A continuation of Aerospace Studies 4411.

*Three class hours per week and one hour of Corps Training.*

**4413. Elementary Aeronautics. (2).**

An introduction to aviation and the basic principles of flight; basic meteorology and its applications to aviation; basic use of navigation computers, instruments, and radio aids, basic regulations governing



airmen, aircraft operations, and flight safety. This course is designed to prepare the student for the FAA Private Pilot Written Examination. **PREREQUISITE:** Aerospace Studies 3311 and 3312 or permission of the Professor of Aerospace Studies.

*Three class hours per week.*

## ANTHROPOLOGY

(See SOCIOLOGY AND ANTHROPOLOGY)

## ART

PROFESSOR DANA DOANE JOHNSON, *Chairman*  
Room 310, Jones Hall

Requirements for the major and minor in art are listed on page 134; the program for the Bachelor of Fine Arts degree is outlined on page 127.

- 1101. Introduction to Art. (3). (111)**  
An introduction to the fundamental principles of the fine arts, aimed at providing an understanding of art products and processes as a basis for judgment and enjoyment of all types of art expression.
- 1201. Basic Design. (3). (121)**  
An introduction to design as a basic factor in creative expression.
- 1204. Color Fundamentals. (3). (122)**  
A modern approach to the study of color, its use and enjoyment.
- 1211. Basic Lettering. (3). (113)**  
Fundamental letter construction, the history of alphabets, and the effects of tools and materials upon individual letter forms, with problems in hand lettering in both pen and brush techniques.
- 1311. Beginning Drawing. (3). (115)**  
An introduction to the materials and techniques of basic drawing.
- 1314. Figure Structure. (3). (116)**  
Analysis of the structure of the human figure with emphasis on contour, gesture, and volume.
- 1552. Introduction to Architecture. (3).**  
A survey of contemporary architectural theory, its development and practice.
- 1553. Architectural Graphics. (3).**  
Fundamentals of graphic representation, designed to develop abilities in the theories of projection.
- 1554. Architectural Graphics (3).**  
Fundamentals of graphic representation; techniques and materials of freehand drawing.
- 2101. World Art I. (3).**  
The development of the visual arts from prehistoric times through the medieval period; their use by man as a social, cultural, and educational force; brief survey of the art of the Far East.

- 2102. World Art II. (3).**  
Continues (but does not presuppose) World Art I; a survey of the development of the visual arts from the medieval period through the Renaissance to the present.
- 2201. Design. (3).**  
A continued study of the elements of design, using a variety of materials and methods. PREREQUISITE: Art 1201 and 1204, or permission of the instructor.
- 2202. Design. (3).**  
A continuation of Art 2201, with attention given to three-dimensional problems in design. PREREQUISITE: Art 2201, or permission of the instructor.
- 2211. Typography. (3). (Same as Journalism 2211).**  
A lecture laboratory study of the development of type and the processes of composition, engraving, stereotyping, and printing. Students are provided opportunities to practice the effective use of type and illustration in mass communications.
- 2213. Lettering and Layout. (3). (207)**  
Practical problems involving lettering and layout.
- 2231. Interior Design. (3). (215)**  
A survey of the field of interior design and some of its underlying principles.
- 2232. Interior Design. (3).**  
A continuation of Art 2231, with emphasis on spatial relations. PREREQUISITE: Art 2231, or permission of the instructor.
- 2241. Textile Design. (3). (216)**  
An introduction to the field of fabric designing with emphasis on creative problems.
- 2311. Perspective. (3). (214)**  
Theory and practice of perspective projection and its various applications.
- 2313. Drawing. (3).**  
Advanced problems of communication through exploration of varied graphic media and methods. PREREQUISITE: Art 1311 and 1314, or permission of the instructor.
- 2314. Drawing. (3).**  
A continuation of Art 2313, with emphasis on personal expression. PREREQUISITE: Art 2313, or permission of the instructor.
- 2321. Drawing and Painting. (3). (213)**  
Theory and practice in drawing and painting in various media.
- 2351. Graphics. (3). (241)**  
An introduction to the graphic arts, primarily concerned with the planning and execution of woodcuts.
- 2511. Sculpture. (3). (231)**  
An introduction to the basic materials and techniques of sculpture.

- 2551. Architectural Design. (4).**  
Principles of spatial composition and structural organization, incorporating concepts of the scale and movement of man in space.
- 2552. Architectural Design. (4).**  
Continuation of Art 2551; approaches to architectural design through the analysis of design determinates relating man to his environment.
- 2553. Architectural Graphics. (2).**  
Theory and techniques of graphic architectural presentation with emphasis on the various linear media.
- 2554. Architectural Graphics. (2).**  
Continuation of Art 2553 with emphasis on watercolor and applied media.
- 3101. History of Interior Architecture and Furniture. (3).**  
Survey of interior architecture, furniture design, and decorative arts from the Egyptian era to the 18th century.
- 3102. History of Interior Architecture and Furniture. (3).**  
Survey of interior architecture, furniture design, and decorative arts from the 18th century to the present day.
- 3121. Ancient Art. (3). (337)**  
A study of architecture, sculpture, painting, and the minor arts from prehistoric times to the fall of the Roman Empire, including Egyptian, Sumerian, Greek, and Roman art.
- 3161. Art in America I. (3). (313)**  
The development of American art including architecture, sculpture, painting, and the minor arts from pre-Columbian times to 1893.
- 3162. Art in America II. (3).**  
A continuation of Art 3161, dealing with architecture, sculpture, and painting in America from 1893 to the present.
- 3221. Advertising Design. (3). (315)**  
An introduction to the methods and techniques of advertising layout, with practical problems involving roughs, presentation, and finished art work.
- 3222. Advertising Design. (3). (316)**  
A continuation of Art 3221, offering further study in the technique of newspaper, magazine, and direct-mail layout.
- 3223. Packaging and Display. (3). (323)**  
A study of package designing and display techniques.
- 3231. Interior Design. (3). (317)**  
Practical problems in interior architecture and design. PREREQUISITE: Art 2231 or permission of instructor.
- 3232. Interior Design. (3). (318)**  
A continuation of Art 3231, offering further study in interior organization and the designing of residential and commercial interiors. PREREQUISITE: Art 2231 and 3231 or permission of instructor.
- 3331. Oil. (3). (333)**  
A preliminary course in the theory and practice of oil painting.

- 3332. Oil. (3). (334)**  
A continuation of Art 3331 with special attention given to the essentials of still-life, landscape, and portrait painting.
- 3333. Casein. (3). (331)**  
Theory and practice in casein painting.
- 3334. Casein. (3). (332)**  
A continuation of Art 3333 with emphasis on further development of techniques.
- 3351. Graphics. (3). (335)**  
A continued study in the graphic arts with further emphasis on wood-cut and etching. PREREQUISITES: Art 2351, or permission of the instructor.
- 3352. Graphics. (3). (336)**  
A continuation of Art 3351 with emphasis turning to personal expression. PREREQUISITES: Art 2351 and 3351, or permission of the instructor.
- 3411. Art Experiences for Elementary Teachers. (3). (301)**  
An introductory course in the development of skills and methods in the school art program, with emphasis on materials and ideas important to children's art expression and growth.
- 3413. Materials and Methods in Teaching Elementary School Art. (3). (301)**  
Designed to aid future teachers in understanding child art, encouraging art expression, and preparing art teaching materials for children. PREREQUISITE: Art 1101 (or 2101 and 2102) and 3411.
- 3421. Art Experiences for Secondary School Art Teachers. (3). (301)**  
Designed to familiarize secondary art teachers with art crafts in a secondary school art program and to allow them to work with equipment, supplies, processes, and ideas in an art craft program. PREREQUISITE: Art 2202 or 3411, or permission of the instructor.
- 3424. Textiles in the Secondary School Art Program. (3). (301)**  
The place of textiles and textile designing in a secondary school art program, including work with equipment, supplies, processes, and ideas basic to a comprehensive textile craft course. PREREQUISITES: Art 3411 and 2202, or permission of the instructor.
- 3511. Sculpture. (3). (339)**  
The problems of sculptural form as expressed in metal, wood, and related materials.
- 3512. Sculpture. (3). (339)**  
A continuation of Art 3511 with further emphasis on techniques.
- 3513. Ceramic Sculpture. (3). (339)**  
The problems of sculptural form as they relate to ceramic media.
- 3514. Ceramic Sculpture. (3). (339)**  
A continuation of Art 3513 with further emphasis on techniques.
- 3521. Ceramics. (3). (339)**  
An introductory course in pottery-making, including hand forming and production processes using clays, plaster, and cements.



- 3522. Ceramics. (3). (340)**  
A continuation of Art 3521, offering further study in pottery-making and glazing with emphasis on design.
- 3531. Arts and Crafts. (3). (361)**  
Introductory arts and crafts, including leather and metal craft, weaving, and ceramics, as they relate to educational and recreational areas.
- 3541. Packaging and Display. (3). (324)**  
A continuation of Art 3223 with attention given to trademark designs, package renderings and practical displays.
- 4111. Prehistoric Art. (3).**  
An examination of the art products of the various Paleolithic, Mesolithic, Neolithic, Bronze, and Iron Age cultures, with emphasis given to Franco-Cantabrian Cave Paintings and Megalithic Architecture.
- 4131. Early Christian and Byzantine Art. (3).**  
The development of architecture, sculpture, and painting through the early medieval period, with emphasis on early Christian and Byzantine art.
- 4134. Romanesque and Gothic Art. (3).**  
The development of architecture, sculpture, and painting during the Romanesque and Gothic periods.
- 4141. Renaissance Art. (3). (411)**  
Western art and architecture from the medieval period through the Renaissance.
- 4146. Baroque Art. (3).**  
An historical study of the architecture, sculpture, and painting from the end of the Renaissance to the Industrial Revolution.
- 4151. Nineteenth-Century Art. (3).**  
A study of the art movements of the nineteenth century from Neo-Classicism to Impressionism.
- 4154. Twentieth-Century Art. (3).**  
A study of the major art developments in Europe and the United States from Post-Impressionism to the present.
- 4163. Pre-Columbian Art. (3).**  
A specialized study of the art and architecture of the Pre-Inca and Inca peoples of South America and the Maya, Zapotec, Toltec, Aztec, and related peoples of Mexico.
- 4171. Oriental Art. (3). (409)**  
A general survey of Oriental art from the earliest times to the present, dealing specifically with Persian, Indian, Chinese, and Japanese art.
- 4181. Primitive Art. (3). (451)**  
A survey of the art of the primitive Negro of Africa, the aboriginal peoples of Oceania, and the American Indian.
- 4221. Advertising Design. (3). (423)**  
Advanced problems in the fields of advertising and merchandising design. PREREQUISITES: Art 3221 and 3222 or permission of the instructor.

- 4222. Advertising Design. (3). (424)**  
A continuation of Art 4221 with special attention given to individual problems and to personal approach. PREREQUISITES: Art 3221, 3222, and 4221, or permission of the instructor.
- 4231. Interior Design. (3). (429)**  
Advanced study in interior design. Problems in designing complete interiors for homes and commercial structures. PREREQUISITES: Art 2231, 3231, and 3232, or permission of instructor.
- 4232. Interior Design. (3). (430)**  
A continuation of Art 4231 with further problems in home and commercial interiors. PREREQUISITES: Art 2231, 3231, 3232, and 4231, or permission of instructor.
- 4233. Interior Rendering. (3). (425)**  
Professional techniques in the rendering of interiors and the construction of models.
- 4234. Interior Rendering. (3). (426)**  
A continuation of Art 4233 with further emphasis on rendering techniques.
- 4235. Interior Design Research. (3). (427)**  
Intensive study of special areas of interior design with emphasis on space planning and lighting. PREREQUISITE: Art 3232, or permission of the instructor.
- 4236. Interior Design Research (3). (428)**  
Continuation of Art 4235 with emphasis on furniture design and construction. PREREQUISITE: Art 4235, or permission of the instructor.
- 4321. Drawing and Painting. (3). (431)**  
An advanced course in drawing and painting methods with emphasis on transparent watercolor. PREREQUISITES: Art 2321 or permission of instructor.
- 4322. Drawing and Painting. (3). (432)**  
A continuation of Art 4321 with attention given to various mixed media. PREREQUISITES: Art 2321 and 4321 or permission of instructor.
- 4331. Oil. (3). (433)**  
A consideration of advanced problems in oil painting, presupposing that the student has mastered basic techniques and is ready for a more experimental approach to the subject. PREREQUISITES: Art 3331 and 3332, or the permission of the instructor.
- 4332. Oil. (3). (434)**  
A continuation of Art 4331 with emphasis on the development of a personal style. PREREQUISITES: Art 3331, 3332, and 4331, or permission of the instructor.
- 4341. Illustration. (3). (421)**  
A survey of the many areas requiring the services of an illustrator and including the preparation of book, magazine, advertising, and television illustrations.

- 4342. Illustration. (3). (422)**  
A continuation of Art 4341, dealing with analysis of fine art techniques of drawing and painting as they apply to commercial illustration.
- 4351. Graphics. (3). (441)**  
Specialization in one or two graphic media. Students are encouraged to develop a personal imagery and the necessary technical abilities. PREREQUISITES: Art 2351, 3351, and 3352, or permission of the instructor.
- 4352. Graphics. (3). (442)**  
The culminating course in the graphic arts in which work may be done in woodcut, etching, or lithography. PREREQUISITES: Art 2351, 3351, 3352, and 4351, or permission of the instructor.
- 4421. Materials and Methods in Teaching Secondary School Art. (3). (SAME as Education 3321)**  
Designed to aid future art teachers in understanding adolescent art expression and in preparing art teaching materials for the secondary school art program. PREREQUISITES: Art 3421 and 3424, or permission of the instructor.
- 4511. Sculpture. (3).**  
Advanced work in various sculptural media. PREREQUISITE: Art 2511, 3511, and 3512, or permission of the instructor.
- 4512. Sculpture. (3).**  
A continuation of Art 4511 with emphasis upon personal expression. PREREQUISITE: Art 4511, or permission of the instructor.
- 4551. Working Drawings and Professional Practice. (3).**  
Detailing of interior construction and scheduling of finishes. PREREQUISITE: Art 3232, or permission of the instructor.
- 4552. Working Drawings and Professional Practice. (3).**  
A continuation of Art 4551. PREREQUISITE: Art 4551, or permission of the instructor.
- 4611. Art Seminar. (3). (461)**  
Original research in the student's area of concentration, the extent of the project to be approved by the art faculty.
- 4621. Workshop in Art. (3). (415)**  
The study of specific art problems as they apply to the individual student with emphasis on basic art concepts and creative experience. PREREQUISITE: permission of the instructor.
- 4622. Workshop in Art. (3). (416)**  
A continuation of Art 4621, providing study of problems appropriate to the need of the individual student. PREREQUISITE: permission of the instructor.
- 4641. Study and Travel in Art. (3 or 6). (407)**  
Travel to important art areas of the world and specialized study under the direction of a faculty member of the Department of Art.

# BIOLOGY

PROFESSOR CARL DEE BROWN, *Chairman*  
*Room 103, Ellington Hall*

Requirements for the major and minor in biology are listed on page 134. Information concerning pre-professional curricula will be found on page 111 and 124. The program for the degree of Bachelor of Science in Medical Technology is outlined on page 132.

## ADVANCED PLACEMENT

Beginning freshmen who have completed an advanced biology course in high school may apply to the chairman of the Department of Biology, during the semester preceding enrollment, for advanced placement. For further details of advanced placement, see page 104.

### 1001. Introduction to Biology. (3). (111)

An introductory survey of biology, with emphasis on the animal kingdom, designed for non-science majors. Credit in this course is not acceptable for the biology major or in related pre-professional curricula. Credit not allowed for both Biology 1001 and 1600.

*Two lecture, two laboratory hours per week.*

### 1002. Introduction to Biology. (3). (112)

A continuation of Biology 1001, with emphasis on the plant kingdom. Credit in this course is not acceptable for the biology major or in the pre-professional curricula. Credit not allowed for both Biology 1002 and 1200.

*Two lecture, two laboratory hours per week.*

### 1200. General Plant Biology. (5). (141)

A survey of the plant kingdom considering distribution, taxonomic relationships, morphology, physiology, and economic importance of selected forms.

*Three lecture, four laboratory hours per week.*

### 1400. Microbiology. (4). (130)

A course designed to meet the requirements of student nurses and majors in the Department of Health, Physical Education, and Recreation.

*Three lecture, two laboratory hours per week.*

### 1600. General Animal Biology. (5). (142)

A survey of the animal kingdom, considering distribution, taxonomic relationships, morphology, physiology, and economic importance of selected forms.

*Three lecture, four laboratory hours per week.*

### 1631. Human Anatomy and Physiology. (3). (131)

A study of the structure and function of the human organism, designed primarily for majors in the Department of Health, Physical Education, and Recreation.

*Two lecture, two laboratory hours per week.*

### 1632. Human Anatomy and Physiology. (3). (132)

A continuation of Biology 1631, designed primarily for majors in the Department of Health, Physical Education, and Recreation. PREREQUISITE: Biology 1631 or the equivalent.

*Two lecture, two laboratory hours per week.*



- 1731. Anatomy and Physiology. (4). (121)**  
A detailed study of the structure and functions of the human organism.  
*Three lecture, two laboratory hours per week.*
- 1732. Anatomy and Physiology. (4). (122)**  
A continuation of Biology 1731. PREREQUISITE: Biology 1731 or the equivalent.  
*Three lecture, two laboratory hours per week.*
- 2001. Elements of Biology. (3).**  
A study of the basic concepts of animal and plant life. (This course, designed for students in The College of Education seeking certification in elementary education, will not satisfy science requirements for degrees in other colleges of the University.)  
*Two lecture, two laboratory hours per week.*
- 2002. Natural History and Bio-Conservation. (3).**  
Emphasis is placed on plants and animals in their environment, the use of field work in teaching elementary science, and the study of ecological principles related to bio-conservation. (This course, designed for students in The College of Education seeking certification in elementary education, will not satisfy science requirements for degrees in other colleges of the University.) PREREQUISITE: Biology 2001.  
*Two lecture, two laboratory hours per week.*
- 3050. General Ecology. (4). (352)**  
The study of plant and animal communities in relation to their environment. PREREQUISITES: Biology 1200 and 1600, or the equivalent.  
*Two lecture, four laboratory hours per week.*
- 3070. Genetics. (4). (300)**  
A study of the principles of heredity, including laboratory experiments in *Drosophila* breeding. PREREQUISITES: Biology 1200 and 1600, or the equivalent.  
*Three lecture, three laboratory hours per week.*
- 3100. History of Biology. (3). (315)**  
The development of the science of biology, considering the work of outstanding biologists and the influence of their contributions. PREREQUISITE: 16 semester hours in biology, or permission of the instructor.
- 3170. Heredity. (3). (301)**  
The principles of heredity with applications to human problems, designed for non-science majors and recommended for students who desire a better understanding of heredity and eugenics. Not acceptable as credit toward a biology major. Credit is not allowed for both 3070 and 3170.  
*Three lecture-discussion hours per week.*
- 3240. Field Botany. (4). (304)**  
Observation, classification, and mounting of representative specimens of flowering plants in the Memphis area. PREREQUISITE: Biology 1200 or the equivalent.  
*Two lecture, four laboratory hours per week.*

- 3400. The Relation of Microorganisms to Man. (3).** (330)  
The nature and activities of the microorganisms as they affect the welfare of man; some time is devoted to the pathogens—etiology and transmission of diseases, immunity, and other factors bearing upon the health of the individual and the community. Designed for non-science majors.
- 3500. General Bacteriology. (5).** (302)  
A general course dealing with the fundamentals of bacteriology. **PREREQUISITE:** one year of biology or one year of chemistry.  
*Three lecture, four laboratory hours per week.*
- 3600. Ornithology. (4).** (340)  
A study of the habitats, migrations, nesting habits, and classification of birds. Field trips for recognition of the more common local birds will be organized as needed. **PREREQUISITE:** Biology 1600, or the equivalent.  
*Two lecture, four laboratory hours per week.*
- 3610. Vertebrate Embryology. (4).** (332)  
The development of selected vertebrate embryos from the fertilized egg cell. **PREREQUISITE:** Biology 1600 or the equivalent.  
*Two lecture, four laboratory hours per week.*
- 3620. Comparative Anatomy of Vertebrates. (5).** (331)  
The origin, development, structure, and functions of the organs and systems of selected forms of vertebrates. **PREREQUISITE:** Biology 1600, or the equivalent.  
*Two lecture, six laboratory hours per week.*
- 3630. The Physiology of Exercise. (3).** (344)  
The anatomy and physiology of muscular movement. **PREREQUISITES:** Biology 1631 and 1632, or the equivalent.  
*Three lecture-demonstration hours per week.*
- 3700. Vertebrate Zoology. (4).**  
A study of the life histories, adaptations, ecology, distribution behavior, and classification of vertebrates. **PREREQUISITE:** Biology 1600 or the equivalent.  
*Two lecture, four laboratory hours per week.*
- 3730. Animal Physiology. (4).** (341)  
A study of the essential functions of living organisms, considering necessary structural relationships and emphasizing the normal function of the human body. **PREREQUISITES:** Biology 1600 (or the equivalent) and one year of chemistry.  
*Three lecture, two laboratory hours per week.*
- 3800. Parasitology. (4).** (361)  
Distribution, morphology, life history, economic importance, and control of some of the parasites of man and domestic animals, Protozoa through helminths. **PREREQUISITE:** Biology 1600 or the equivalent.  
*Two lecture, four laboratory hours per week.*
- 3900. General Entomology. (3).** (311)  
An introduction to the insects with emphasis on morphology, physiology, development, behavior, and ecology. **PREREQUISITE:** Biology 1600 or the equivalent.  
*Two lecture, two laboratory hours per week.*

- 3920. Insect Morphology. (4). (314)**  
A study of the form and structure of insects, considering both external and internal morphology. PREREQUISITE: Biology 3900 or 3940 or the equivalent.  
*Two lecture, four laboratory hours per week.*
- 3930. Introduction to Insect Physiology. (3). (312)**  
A study of physiology as applied to the life processes of insects. PREREQUISITE: Biology 3900 and 3940 or the equivalent.  
*Two lecture, two laboratory hours per week.*
- 3940. Systematic Entomology. (3). (312)**  
Classification of the insects, the interpretation and use of keys, and the preparation of a representative collection. PREREQUISITE: Biology 1600 or the equivalent.  
*One lecture, four laboratory hours per week.*
- 3960. Medical Entomology. (4). (362)**  
Distribution, morphology, life history, economic importance, and control of some of the insects and other arthropods which are parasites or serve as vectors for disease-producing organisms. PREREQUISITE: Biology 1600 or the equivalent.  
*Two lecture, four laboratory hours per week.*
- 4000. Problems in Biology. (2 to 4). (400)**  
Individual problems pursued by qualified students under supervision of a member of the biology faculty, designed to develop interest and proficiency in biological research.
- 4030. Cellular Physiology. (4). (450)**  
A study of the fundamental unit of all living things, considering the basic activities of cells: nutrition, adaptation, growth, and reproduction. PREREQUISITE: Biology 3730 or the equivalent.  
*Two lecture, four laboratory hours per week.*
- 4060. Limnology. (4).**  
Physical and chemical attributes of lakes, ponds, and streams; organisms of fresh water; problems of production; practical training in limnological methods and identification of organisms. PREREQUISITES: Biology 1600 and one year of chemistry.  
*Two lecture, four laboratory hours per week.*
- 4080. Radiation Biology. (3). (410)**  
Effects of ionizing and excitational radiations upon life processes. PREREQUISITES: Biology 3070, Chemistry 3312 (or 3412), Physics 1112 (or 2112).  
*Two lecture, two laboratory hours per week.*
- 4100. Organic Development. (3). (410)**  
The consideration of theoretical and scientific evidences concerning the origin, development, and establishment of the major groups of living and extinct animals and plants. Recommended for biology majors and general students as well. PREREQUISITE: One year of biology.
- 4221. Plant Morphology. (4). (401)**  
Comparative studies of general structure of lower plants, exclusive

of bacteria, and related forms, through the Bryophytes. PREREQUISITE: Biology 1200 or the equivalent.

*Two lecture, four laboratory hours per week.*

**4222. Plant Morphology. (4). (402)**

A continuation of Biology 4221, considering the vascular plants. PREREQUISITE: Biology 1200 or the equivalent.

*Two lecture, four laboratory hours per week.*

**4231. Plant Physiology. (4). (426)**

A study of the principles of physiology and their application to the lower plant groups, exclusive of the bacteria and related forms. PREREQUISITE: permission of the instructor.

*Two lecture, four laboratory hours per week.*

**4232. Plant Physiology. (4). (425)**

Principles of physiology and their application to the living organism, with emphasis on higher plants. PREREQUISITE: Permission of the instructor.

*Two lecture, four laboratory hours per week.*

**4240. Plant Taxonomy. (4). (420)**

Principles of plant taxonomy, with special attention given to the classification of selected vascular plant families. PREREQUISITE: permission of the instructor.

*Lectures, laboratory hours, and field trips.*

**4260. Histological Technique. (3). (404-A)**

A study of the methods of preparing plant tissues for microscopic study; theories of staining and preparation of permanent mounts. Credit not allowed for both 4260 and 4660. PREREQUISITE: Biology 1200, or consent of instructor.

*One lecture, four laboratory hours per week.*

**4400. Advanced Microbiology. (4).**

Advanced theory and principles of microbiology with emphasis on morphology and bacterial metabolism. PREREQUISITE: Biology 3500 and one year of introductory biology, one year of inorganic chemistry, with organic chemistry desirable.

*Two lecture, four laboratory hours per week.*

**4440. Pathogenic Bacteriology. (4).**

Methods of bacteriological technique, pure culture studies, and classification of bacteria. PREREQUISITE: Biology 3500, one year of introductory biology, one year of inorganic chemistry, with organic chemistry desirable.

*Two lecture, four laboratory hours per week.*

**4460. Sanitary Bacteriology. (4). (405)**

A study of microorganisms in relation to water and sewage; disinfection and disinfectants. PREREQUISITE: Biology 3500 or the equivalent.

*Two lecture, four laboratory hours per week.*

**4560. Microbiology of Foods. (4). (406)**

Microorganisms in natural and processed foods; origins, nature, and effects on foods; enumeration; and the relation to health. PREREQUISITE: Biology 3500 or the equivalent.

*Two lecture, four laboratory hours per week.*



**4604. Ethology. (4).**

A study of animal behavior with emphasis on recent developments in the field, including history of ethology, learning, releasers, communication, orientation, instinct, biological clocks, and evolution of behavior. PREREQUISITE: Biology 1600 or the equivalent.

*Two lecture, four laboratory hours per week.*

**4620. Vertebrate Histology. (4). (403)**

Microscopic study of normal tissues and organs of the vertebrate body. PREREQUISITE: Biology 3620 or 3730.

*Two lecture, four laboratory hours per week.*

**4630. General Endocrinology. (3).**

Anatomy and physiology of the organs of internal secretion; role of hormones in metabolism and development. PREREQUISITE: Biology 3730.

**4640. Field Zoology. (4). (440)**

Field study of the identification, life history, and habitat of the animals of this locality; birds and insects are omitted. PREREQUISITE: 8 semester hours of biology, including Biology 1600 or the equivalent.

*Two lecture, four laboratory hours per week.*

**4644. Ichthyology. (4).**

Collection, preservation, identification, life histories, management, and economic importance of fishes. PREREQUISITE: Biology 1600.

*Two lecture, four laboratory hours per week.*

**4660. Histological Technique. (3). (404-B)**

Methods of preparing animal tissues for microscopic study; theories of staining and preparation of permanent mounts. Credit not allowed for both 4260 and 4660. PREREQUISITE: Biology 1600 or consent of the instructor.

*One lecture, four laboratory hours per week.*

**4720. Comparative Neurology. (4). (460)**

A detailed study of the nervous system of selected animals with emphasis on the vertebrates. PREREQUISITE: permission of the instructor.

*Two lecture, four laboratory hours per week.*

**4740. Mammalogy. (4).**

Classification, distribution, life histories, economic importance, techniques of field study, methods of collection and preservation of mammals. PREREQUISITE: Biology 3620.

*Two lecture, four laboratory hours per week.*

**4744. Herpetology. (4).**

Classification, distribution, life histories, techniques of collection and preservation, natural habitats of North American reptiles and amphibians.

*Two lecture, four laboratory hours per week.*

**4760. Wildlife Management. (4).**

Distribution, identification, population analysis, game mapping techniques, and management of wildlife. PREREQUISITE: Biology 3050 and one of the following: Biology 3600, 4640, 4644, 4740, 4744.

*Two lecture, four laboratory hours per week.*

**4840. Invertebrate Zoology. (4). (430)**

The invertebrate animals, exclusive of the insects, with special attention given to phylogeny, organology, and taxonomy. PREREQUISITE: Biology 1600 or the equivalent.

*Two lecture, four laboratory hours per week.*

*(The following courses, offered in The Graduate School, are open to undergraduates within 36 semester hours of graduation. None of these courses carries graduate credit nor is applicable to any degree offered in The Graduate School.)*

**5100. Instrumentation. (2). (S-530)**

A consideration of recent development in biological techniques which may be applied to the study of living organisms.

**5330. Intermediary Plant Metabolism. (3).**

A detailed study of the metabolism of carbohydrates, fats and nitrogen compounds in higher plants. PREREQUISITE: Permission of instructor.

**5840. Protozoology. (4). (S-560)**

A survey of the free living and parasitic protozoa, with consideration given to structure, taxonomy, habitat, and life history. PREREQUISITE: Biology 1600 or the equivalent.

*Two lecture, four laboratory hours per week.*

*Graduate courses in Biology: For course descriptions and further details of the graduate program, see The Bulletin of The Graduate School.*

## CHEMISTRY

PROFESSOR JESSE WELLS FOX, *Chairman*

*Room 210, J. M. Smith Hall*

The Department of Chemistry offers majors and minors in chemistry and physical science; requirements are listed on page 134. The Department also offers the professional degree of Bachelor of Science in Chemistry, details of which are outlined on page 127. This program is designed to meet the requirements of the Committee on Professional Training of the American Chemical Society. Students completing this program may go directly into positions in the chemical industry or may enroll for graduate study in chemistry, leading to research positions, college teaching, or other positions requiring an advanced degree. Information concerning pre-professional curricula will be found on page 124. The program for the degree of Bachelor of Science in Medical Technology is outlined on page 132.

## SEQUENCE OF COURSES

Students who present credit in high school chemistry or physics should enroll in Chemistry 1111 if they plan to take more than one year of college chemistry or plan to major in a natural science. The Chemistry 1051 and 1052 sequence is designed for non-science majors who desire only one year of chemistry in satisfying their degree requirements. Students with credit in Chemistry 1052 must take Chemistry 1053 (to be described in the 1969-1970 catalog) before they are eligible to enroll in any chemistry course above the freshman level. Students with no credit in high school chemistry or physics, or those with an evident deficiency, may elect to take the Chemistry 1051, 1052, and 1053 sequence in lieu of Chemistry 1111 and 1112.

## ADVANCED PLACEMENT

Beginning students who have had high school chemistry and who have had advanced training in summer institutes, research participation projects, advanced high school chemistry courses, etc., are invited to apply, preceding enrollment, to the chairman of the Department of Chemistry for advanced placement. If previous experience and grades on a qualifying examination merit consideration, credit will be given on beginning courses for which examinations are satisfactorily completed. For further details of advanced placement, see page 104.

**1000. Chemistry for Nurses. (4). (100s)**

A study of the application of chemistry in health and disease, designed to meet the need of students who plan to enter the nursing profession. Approximately one-half of the semester is allocated to general chemistry, one-fourth to organic chemistry, and one-fourth to biochemistry.

*Three lecture, two laboratory hours per week.*

**1051. Elementary Chemistry. (4).**

A study of the chemistry of the more important elements and compounds, designed for students who do not expect to take more than two semesters of chemistry. *This course will not be credited toward a major or minor in chemistry or physics.*

*Three lecture, two laboratory hours per week.*

**1052. Elementary Chemistry. (4).**

A continuation of Chemistry 1051, including the more important compounds of carbon as found in petroleum, foods, fabrics, etc. *This course will not be credited toward a major or minor in chemistry or physics without additional credit in Chemistry 1053 (to be added in the 1969-70 Catalog).* PREREQUISITE: Chemistry 1051.

*Three lecture, two laboratory hours per week.*

**1100. Introduction to Chemistry. (2). (110)**

Designed for students whose curriculum requires Chemistry 1111 and 1112 but whose previous chemistry background is inadequate for enrollment in Chemistry 1111. Stress is placed on scientific calculations and the properties of matter. *Credit in this course will not apply toward a major or minor in chemistry, physics, or physical science, nor will it satisfy any part of the science requirements for any degree.* COREQUISITE: Mathematics 1211 or 1212 is recommended.

*Two lectures per week.*

**1111. General Chemistry. (4). (111)**

The basic course in chemistry, covering atomic structure and its relationship to the physical and chemical properties of the elements, the states of matter, properties of gases and solutions, oxidation-reduction reactions, acid-base reactions, colloids, and a study of the periodic relationships of elements. Required of all chemistry and physics majors and minors and of students following pre-professional curricula in medicine, dentistry, pharmacy, engineering, and medical technology. PREREQUISITE: One unit in high school chemistry or permission of the department chairman. COREQUISITE: Mathematics 1211, 1212, or 1321.

*Three lecture, three laboratory hours per week.*

**1112. General Chemistry. (4). (112)**

A continuation of Chemistry 1111, covering the chemistry of more important metals, chemical equilibrium and the Law of Mass Action,

electrochemistry, oxidation potentials, and chemistry of some of the more important non-metals. The laboratory is elementary qualitative analysis. PREREQUISITES: Chemistry 1111, and Mathematics 1211, 1212, or 1312.

*Three lecture, three laboratory hours per week.*

**2000. Elementary Quantitative Analysis for Biological Sciences. (4). (200)**

Designed for students in the biological sciences, with stress on the theory and practice of volumetric analysis and colorimetry. *Credit in this course will not apply toward a major in chemistry.* PREREQUISITE: Chemistry 1053 or 1112.

*Three lecture, four laboratory hours per week.*

**2010. Elementary Physical Chemistry. (4). (201)**

A brief course in physical chemistry, designed primarily for students who will continue their studies in biochemistry, medicine, and biology; recommended for those planning to teach the physical sciences in secondary schools who do not have the mathematics required for Chemistry 3411. *Credit in this course will not apply toward a major in chemistry or physics.* PREREQUISITES: Chemistry 2000 or 2200, and Physics 2111 or 2511.

*Three lecture, three laboratory hours per week.*

**2200. Quantitative Analysis. (4). (220)**

The theory and practice of gravimetric and titrimetric quantitative chemical analysis, with stress on principles and techniques of gravimetry, titrimetry, stoichiometry, and spectrophotometry. Laboratory work includes the preparation of standard solutions and the analysis of samples. PREREQUISITES: Chemistry 1053 or 1112.

*Two lecture, six laboratory hours per week.*

**3311. General Organic Chemistry. (4). (Formerly 3211). (321)**

A systematic study of the preparations and properties of organic compounds according to modern theories of organic chemistry. Particular emphasis will be placed on aliphatic and aromatic hydrocarbons, their halogen derivatives, and alcohols. PREREQUISITE: Chemistry 1053 or 1112; Chemistry 2000 or 2200 is recommended.

*Three lecture, three laboratory hours per week.*

**3312. General Organic Chemistry. (4). (Formerly 3212). (322)**

A continuation of 3311, with emphasis on the more important functional derivatives of aliphatic and aromatic hydrocarbons. PREREQUISITE: Chemistry 3311.

*Three lecture, three laboratory hours per week.*

**3411. Physical Chemistry. (4). (341)**

The fundamental principles of physical chemistry, including kinetic theory, thermochemistry, the laws of thermodynamics, solutions, and phase equilibria. PREREQUISITES: Chemistry 2000 or 2200; Physics 2112 or 2512; Mathematics 2321.

*Three lecture, three laboratory hours per week.*

**3412. Physical Chemistry. (4). (342)**

A continuation of Chemistry 3411, considering such topics as irreversible processes, electromotive force, ionic equilibria, quantum theory, molecular structures, crystallography, and surface chemistry. PREREQUISITE: Chemistry 3411.

*Three lecture, three laboratory hours per week.*



**4011. Biochemistry. (4). (401)**

An elementary course dealing principally with chemistry of carbohydrates, proteins, lipids, vitamins, etc., digestion and absorption, with consideration also given to certain physico-chemical topics including the colloidal state, colligative properties, equilibria and buffer mechanisms, and the electrolyte structure of body fluids. **PREREQUISITE:** Chemistry 3312.

*Two lecture, four laboratory hours per week.*

**4012. Biochemistry. (4). (402)**

The topics include the chemistry of blood and other tissues, the excretions, energy metabolism, intermediary chemical metabolism. **PREREQUISITE:** Chemistry 4011.

*Two lecture, four laboratory hours per week.*

**4200. Advanced Analytical Chemistry. (3). (420)**

A treatment of the theory and calculations of analytical chemistry. Topics include acid-base titrations in water and nonaqueous solvents; the physical form and purity of precipitates; homogeneous precipitation; differential thermal analysis and thermogravimetry; organic precipitants and extractants; stability of complex ions; separations by ion exchange, vaporization, and solvent extraction; redox methods in inorganic and organic determinations; and statistical methods in chemistry. **PREREQUISITE:** Chemistry 3412, or permission of the instructor.

*Three lecture hours per week.*

**4210. Advanced Inorganic Chemistry. (3). (421)**

A presentation of modern inorganic chemistry with emphasis on bonding and structure and their relationship to the properties of inorganic compounds. Periodicity, the principles of acid-base behavior, inorganic complex compounds, and non-aqueous solvents are included. **PREREQUISITE:** Chemistry 3412, or permission of the instructor.

*Three lecture hours per week.*

**4220. Instrumental Analysis. (3). (422)**

The theory and application of the principles of electrometric, spectrophotometric and chromatographic methods to the collection and interpretation of physical chemical data as well as the application of such methods to analysis. The techniques include potentiometry; conductimetry; voltammetry; visible, ultraviolet, and infrared spectrophotometry; and paper, column, and gas chromatography. **PREREQUISITES:** Chemistry 3412 and 4200.

*One lecture, six laboratory hours per week.*

**4310. Organic Qualitative Analysis. (3). (431)**

Separation and characterization of unknown organic compounds by solubility, class reactions, test reagents, preparation of derivatives, and modern instrumental methods. **PREREQUISITES:** Chemistry 2000 or 2200 and Chemistry 3312.

*One lecture, six laboratory hours per week.*

**4411. Advanced Theoretical Physical Chemistry. (3).**

Solutions of the Schrodinger wave equation for the particle in the box, the harmonic oscillator, the rigid rotator, the hydrogen atom and some approximate solutions for other systems, atomic and molecular spectra, and partition functions. **PREREQUISITES:** Chemistry 3412 and Mathematics 2322.

**4900. Chemical Literature. (1). (490)**

Use of the chemical literature and the writing of technical reports.  
**PREREQUISITE:** junior standing in chemistry.

*One lecture hour per week.*

**4910. Seminar. (1). (491)**

Special projects, reports and investigation of current chemical literature. **PREREQUISITE:** Chemistry 4900.

*One lecture hour per week.*

*(The following courses, offered in The Graduate School, are open to undergraduates within 36 semester hours of graduation. None of these courses carries graduate credit nor is applicable to any degree offered in The Graduate School.)*

**5010. Principles of Chemistry. (3). (S501-I)**

This course is intended to acquaint the teacher of high school chemistry with a modern approach to the principles of chemistry, including atomic structure, chemical bonding, the periodic classification of the elements as it relates to their properties, chemical equilibrium and the law of mass action, ionic equilibria, electrochemistry, oxidation potentials, and an introduction to nuclear chemistry. Problems illustrating the quantitative relationships involved in most of these topics are emphasized. The laboratory will include both qualitative and quantitative analytical techniques. The Chemical Bond Approach materials will be used as a basis for this course. *This course cannot be applied toward a major or minor in chemistry, or physical science.*

*Three lecture hours per week.*

**5020. Principles of Organic Chemistry. (3). (S502-I)**

Open only to high school science teachers, this course is the systematic presentation of the fundamental principles of organic chemistry with interpretation of structure and properties in accord with modern atomic and molecular theory. Emphasis is placed upon the sources and uses of organic compounds in our daily lives. Special topics will be developed that familiarize the high school teacher with the recent advances in the field and areas suitable for special projects for high school students. Laboratory experiments and demonstrations adaptable for use in high school courses will be developed and performed. *This course cannot be applied toward a major or minor in chemistry, physics, or physical science.* **PREREQUISITE:** Two years of college chemistry or Chemistry 5010.

*Three lecture hours per week.*

**5030. Analytical Chemistry. (3). (S503-I)**

This course stresses recent analytical methods. It covers the fundamental principles of analytical chemistry including some gravimetric and titrimetric methods but with major emphasis on modern instrumental techniques. These include ultraviolet, visible and infrared spectrophotometry; potentiometric, conductometric, voltametric, and electrolytic methods; and both liquid and gas phase chromatography. *This course cannot be applied toward a major or minor in chemistry, physics, or physical science.* **PREREQUISITE:** Two years of college chemistry or Chemistry 5010.

*Three lecture hours per week.*

**5410. Advanced Physical Chemistry. (3). (S541)**

Thermodynamics in relation to chemical equilibria and reactivity, including such topics as isothermal and adiabatic expansions, cyclic

processes, heat content, specific heats, entropy, enthalpy, free energy, and vapor pressures. PREREQUISITES: Chemistry 3412, Mathematics 2322, and permission of department chairman.

### PHYSICAL SCIENCE

#### 1031. Principles of Physical Science. (3).

Fundamental principles and concepts of chemistry and physics related to the understanding and teaching of physical science. (*This course, designed for students in The College of Education seeking certification in elementary education, will not satisfy science requirements for degrees in other colleges of the University.*)

*Three lecture, two laboratory hours per week.*

#### 1032. Principles of Physical Science. (3).

Principles and concepts of astronomy, meteorology, and geology related to the understanding and teaching of physical science. PREREQUISITE: Physical Science 1031. (*This course, designed for students in The College of Education seeking certification in elementary education, will not satisfy science requirements for degrees in other colleges of the University.*)

*Three lecture, two laboratory hours per week.*

#### 4050. Glass Manipulation. (2).

(Chemistry 405)

A laboratory course in the fundamentals of glass manipulation and the construction and repair of simple laboratory apparatus. PREREQUISITE: Senior standing.

*Six laboratory hours per week.*

#### 4070. General Science for High School Teachers. (3).

(407-I)

A study of the fundamental principles of astronomy, chemistry, geology, and physics as they relate to the understanding and teaching of general science. Classroom experiments and demonstrations will be included.

*(The following course, offered in The Graduate School, is open to undergraduates within 36 semester hours of graduation. This course does not carry graduate credit nor is it applicable to any degree offered in The Graduate School.)*

#### 5040. Astronomy. (3).

(S501-I)

A course in astronomy open to junior and senior high school teachers of science.

*Graduate courses in Chemistry and Physical Science: For course descriptions and further details of the graduate program, see The Bulletin of the Graduate School.*

## CLASSICAL LANGUAGES

PROFESSOR ROY E. WATKINS, *Chairman*

*Room 215, Jones Hall*

Requirements for the major and minor in Latin are listed on page 135. Details of the foreign language requirements for the baccalaureate degrees will be found on page 122.

### CLASSICS

#### 3021. Latin and Greek Etymology. (3).

(323)

Origin and derivation of words, especially those used in medicine and science. This course is given in English and is open to all students with-

out prerequisite. It may not be used to satisfy any part of the foreign language requirement nor does it apply toward a major in classical languages.

## GREEK

1101. **Elementary Greek.** (3). (111)  
Elements of Greek grammar and syntax; practice in reading and translation.
1102. **Elementary Greek.** (3). (112)  
Completion of basic grammar and syntax, with additional readings.
2201. **Xenophon.** (3). (211)  
Reading and interpretation of Xenophon's *Anabasis*.
2202. **Homer.** (3). (212)  
Reading and interpretation of Book IX of Homer's *Odyssey*.
3111. **Herodotus.** (3). (311)  
Reading and analysis of Books VI-VIII of Herodotus' *History*.
3511. **Euripides.** (3). (321)  
Reading and analysis of the dramas *Alcestis* and *Medea*.
3911. **Plato's *Apology, Crito.*** (3).  
Reading and analysis of the dialogues of Plato which give a prelude to the death of Socrates.
3912. **Plato's *Republic.*** (3).  
Reading and analysis of selected books of Plato's *Republic*.

## LATIN

1101. **Elementary Latin.** (3). (111)  
Elements of grammar; practice in Latin composition and translation.
1102. **Elementary Latin.** (3). (112)  
Completion of elementary Latin grammar, with additional readings.
2201. **Caesar.** (3). (211)  
Reading and analysis of Caesar's *Gallic Wars*, Books I, IV, V.
2202. **Cicero.** (3). (212)  
Reading and analysis of selected orations of Cicero.
3111. **Livy.** (3) (311)  
Reading and analysis of Livy's *History*, Books XXI, XXII.
3211. **Vergil.** (3). (352)  
Reading and analysis of the *Aeneid*.
3411. **Pliny, Martial.** (3). (362)  
Reading and analysis of the *Letters* of Pliny and the *Epigrams* of Martial.
3611. **Horace's Satires.** (3). (312)
3811. **Ovid.** (3). (351)  
Reading and analysis of myths in Ovid's *Metamorphoses*.



3911. **Lucretius.** (3). (321)  
Reading and analysis of Roman philosophy in Lucretius' *De Rerum Natura*, Books I and III.
3912. **Cicero.** (3). (361)  
Reading and analysis of *De Amicitia* and *De Senectute*.
4411. **Roman Letter Writers.** (3). (413)  
Reading and analysis of Cicero's *Letters*.
4611. **Roman Satire.** (3). (421)  
Reading and analysis of Juvenal's *Satires*.
4711. **Catullus, Horace.** (3). (411)  
Reading and analysis of Catullus' *Lyric Poems* and Horace's *Odes*.

## DISTRIBUTIVE EDUCATION

PROFESSOR C. EDWIN PEARSON, *Chairman*

*Room 401, The College of Education Building*

The Department of Distributive Education offers a major and a minor to prepare teacher-coordinators for vocational marketing programs in high schools, technical institutes and junior colleges. The requirements are listed on page 167.

4610. **Organization and Operation of Distributive Education Programs.** (3).  
A study of the background and development of distributive education in the United States; Federal and State legislation; curriculum implementation, establishing, evaluating, reporting and improving programs.
4630. **Materials and Methods in Distributive Education.** (3).  
The instructional materials and techniques used in high school and post-high school Distributive Education classes.
4640. **Marketing for Distributive Education Teachers.** (3).  
An introduction to marketing, marketing functions, merchandising, prices and competition. PREREQUISITE: Permission of Distributive Education Department chairman.
5640. **Techniques of Coordination in Vocational Education.** (3).  
Selecting training agencies; developing job analyses; selecting and briefing the training supervisor; selecting and working with advisory committees; utilizing other community resources. PREREQUISITES: Distributive Education 4610, 4630 or consent of instructor.
5650. **Basic Problems in Distributive Education.** (3).  
A study of current trends and problems related to distributive education; viewpoints of leaders in the field; special attention to problems of students enrolled.
5660. **Organizing and Teaching Adult Distributive Education.** (3).  
A study of the techniques of working with trade associations, employment services, manpower programs, itinerant instructors and the unique features of planning, organizing, promoting, teaching and evaluating balanced continuing education programs for distributive occupations.

*Graduate courses in Distributive Education: For details of the graduate program, see The Bulletin of The Graduate School.*

# DRAMA

(See SPEECH AND DRAMA)

## ECONOMICS AND FINANCE

PROFESSOR FESTUS JUSTIN VISER, *Chairman*  
*Room 306, The College of Business Administration Building*

Requirements for the majors and minors in economics and in finance for the Bachelor of Business Administration degree are listed on page 150. Requirements for the major and minor in economics for the bachelor's degree in The College of Arts and Sciences are listed on page 135.

- 2110. Principles of Economics I. (3). (211)**  
 An introduction to economic concepts and terminology and to the fundamental principles underlying the production, exchange, distribution, and consumption of income and wealth, together with the application of those principles to major contemporary problems. Attention is given to both the neo-classical and the national income methods of economic analysis. PREREQUISITE: 21 hours of college work, including one semester of college math.
- 2120. Principles of Economics II. (3). (212)**  
 A continuation of Economics 2110. PREREQUISITE: Economics 2110.
- 2130. Principles of Economics I (Honors). (3). (213)**  
 An accelerated and intensified introduction to the first half of the principles of economics for students of exceptional ability. PREREQUISITE: Invitation of the Department of Economics.
- 2140. Principles of Economics II (Honors). (3). (214)**  
 A continuation of Economics 2130. PREREQUISITE: Invitation of the Department of Economics.
- 3110. Economics of Business Enterprise. (3). (312)**  
 An attempt to develop an understanding of the economic reasoning underlying managerial decision-making. Economic analytical techniques are applied to profit, competition, product policy, demand and cost conditions, pricing policies, and capital budgeting. Both semesters. PREREQUISITE: Economics 2120.
- 3210. Labor Economics. (3). (321)**  
 An introductory course dealing with the institutional aspects of the American labor force and its organization, wage and employment theory, the economic role of collective bargaining, and the basic ingredients of public policy toward labor organization. PREREQUISITE: Economics 2120.
- 3330. Economics of Consumption. (3). (313)**  
 Analysis of the role of consumption in the functioning of an economic system. Topics include alternative explanations of consumer motivation and empirical evaluations of consumer behavior. Spring semester. PREREQUISITE: Economics 2120.
- 3410. Economic Development of the United States. (3). (311)**  
 Analysis of economic growth of the American economy in general and of the problems of economic growth in the South in particular. Em-

phasis is placed on the factors instrumental in that growth in the various segments of the economy. PREREQUISITE: Economics 2120.

- 3610. Money and Banking. (3). (361)**  
Monetary and banking history of leading countries with special emphasis on the theory of money and banking in the United States, deposit and earning operations of individual banks, interbank, and central bank relations. Both semesters. PREREQUISITE: Economics 2120.
- 3710. Investments. (3). (462)**  
The principles of investment in stocks and bonds and their application to specific classes of investments. Both semesters. PREREQUISITE: Accounting 2020.
- 4110. Latin American Economic Development. (3).**  
A critical examination of the economic organization and problems of Latin American countries in the context of growth and development theory. PREREQUISITE: Economics 2120.
- 4120. Business Cycles and Forecasting. (3). (414)**  
Cyclical fluctuations examined from the standpoint of definition, theoretical explanation, measurement and quantitative evaluation, secular change implications, and basic forecasting techniques. Both semesters. PREREQUISITE: Economics 3610 and Management 2711.
- 4130. Government Regulation of Business. (3). (491)**  
A critical study of the major forms of industrial organization and the social and managerial implications of each. The several approaches to legal and legislative control; tax laws, commission regulation, anti-monopoly legislation. The impact of each on industrial operating policy. Both semesters. PREREQUISITE: Economics 2120.
- 4140. Business and Economic Research. (3).**  
A study of basic research techniques and their application to business and economic problems. Attention is given to both primary-source and secondary-source study approaches. A critical evaluation of selected sample studies is made. Spring semester. PREREQUISITE: Management 3711.
- 4220. History and Theory of American Labor Movements. (3).**  
A study of major events and trends in American labor history from colonial times to the present, and their significance in terms of the evolving labor-management relationship. An analysis of alternative theories of American trade union development. PREREQUISITE: Economics 3210.
- 4310. Microeconomic Theory. (3). (413)**  
An intermediate examination of price theory and distribution theory. Stress is placed on the market mechanism as a device for resource allocation, with attention given to the uses of basic microeconomic concepts in the analysis of economic problems and in the formulation of economic policy. Both semesters. PREREQUISITE: Economics 2120.
- 4320. Macroeconomic Theory. (3). (492)**  
An intermediate examination of the elements of aggregate theory, with emphasis given to social income accounting and to functional relationships between important aggregate economic variables. Attention is given to forecasting and social policy implications. Both semesters. PREREQUISITE: Economics 2120.

**4340. Comparative Economic Systems. (3).**

An analytical study of the theoretical framework underlying major alternative economic systems—capitalism, socialism, communism, fascism—with the U.S., Sweden, the U.K., the U.S.S.R., and Spain used as examples. Attention is also directed to problems and difficulties associated with the integration of systems. Fall semester. PREREQUISITE: Economics 2120.

**4350. International Economics. (3). (493)**

An historical approach to the theory of international trade, with consideration given to the techniques of control over investment and trade, foreign exchange, balance of payments, and world interdependence. Fall semester. PREREQUISITE: Economics 3610.

**4360. Econometrics I. (3).**

A review of the major quantitative methods, including basic probability concepts, necessary for understanding and using econometric models. An introduction to the basic concepts of econometrics, with more simple models conceptualized and computed as a means of illustrating econometric technique. Fall semester. PREREQUISITE: Management 3711 and a minimum of one semester of college mathematics.

**4370. Econometrics II. (3).**

An examination of the basic theory of the stochastic variable and of its relationship to the econometric model. A study of how the simple model can be expanded to become a useful forecasting and analytical device. Spring semester. PREREQUISITE: Economics 4360.

**4410. Development of Economic Thought. (3). (411)**

A critical study of the historical development of economic thought. Attention is focused primarily on the emergence of Classical and Neoclassical thought, the several dissident schools of thought, and twentieth-century economic thought. Fall semester. PREREQUISITE: Economics 2120.

**4510. Economics of Transportation. (3). (304)**

Development of American transportation system—waterways, highways, railways, and air; characteristics of modern transportation services; rates and rate making; public aid and regulation. PREREQUISITE: Economics 2120.

**4610. Central Banking and Monetary Policy. (3).  
(formerly Money and Banking II)**

A critical examination of the history, economic functions, and policies of central banks. Analysis of the role of monetary policy in achieving predetermined objectives, with emphasis on the interrelationships of monetary policy, central banking, and the financial markets. Spring semester. PREREQUISITE: Economics 3610.

**4710. Financial Markets. (3).**

A survey of the important capital funds markets, the institutions and characteristics peculiar to them. The sources of supply and of demand for funds in each market, and the complex interrelations between the several markets are carefully analyzed. Both semesters. PREREQUISITE: Economics 3610.

**4720. Public Finance. (3). (451)**

The theory and practice of government expenditure, revenue, and debt, and the problem of integrating them into meaningful fiscal



policy. Alternative forms of taxation are analyzed, especially from the standpoint of economic effects. Fall semester. PREREQUISITE: Economics 2120.

**4750. State and Local Finance. (3).**

Fiscal operations at state and local government levels in the United States. Attention is given to state and local government tax structures particularly, with special emphasis on property tax assessment and administration. Also a consideration of the fiscal relations of inter-governmental units, their expenditure elements, debt policy, budgeting, and financial administration. Spring semester. PREREQUISITE: Economics 4720.

**4920. Senior Seminar in Economics. (3).**

A seminar coordinated by the Department Chairman and conducted by selected members of the Department and designed to integrate the several fields and course areas pursued by undergraduate majors into a meaningful whole. Required of all departmental majors in their last semester of undergraduate enrollment.

*(The following courses, offered in The Graduate School, are open to undergraduates within 36 semester hours of graduation. None of these courses carries graduate credit nor is applicable to any degree offered in The Graduate School.)*

**5350. International Finance. (3).**

A study of international capital movements, long term and short term, in terms of the shifting trade flows and the changing world conditions that affect them. Attention is directed to the instruments and institutions of international investment as well as to their domestic economic and monetary impact. Spring semester. PREREQUISITE: Economics 4350 and permission of the instructor.

**5410. Seminar in Economic Thought. (3). (S-511)**

Individual studies in economic thought are pursued. The student is required to select one of the more recent economic thought systems—Marxism, Neo-Classicism, Institutionalism, Keynesianism, Neo-Keynesianism—for intensive critical analysis. Spring semester. PREREQUISITE: Economics 4410 and permission of the instructor.

**5430. Seminar in Economic Analysis. (3).**

An examination of some of the more recently developed techniques of economic analysis—including input-output analysis, linear programming, flow-of-funds analysis, operations research, econometric analysis. PREREQUISITE: Economics 4370, and permission of the instructor.

**5440. Seminar in Public Policy and Labor Relations. (3).**

Research and discussion into public policy issues in labor-management relations. Attention is focused particularly on the evaluation and current status of the institutions, agencies, and techniques of government regulation. Spring semester. PREREQUISITE: Economics 3210 and consent of the instructor.

**5710. Seminar in Investment Planning. (3).**

A study of the objectives of investment management with the emphasis on investments by individuals rather than by institutions. A study of risks as the principal elements involved in making investment

decisions; the analysis of particular industries, companies, and securities involved in the selection of portfolio securities. Fall semester.  
**PREREQUISITE:** Economics 4710.

*Graduate Courses in Economics and Finance: Some of the courses described in the preceding section may be taken for graduate credit with the approval of the department chairman. For further details of the graduate program, see The Bulletin of The Graduate School.*

## EDUCATIONAL ADMINISTRATION AND SUPERVISION

PROFESSOR DEVOY A. RYAN, *Chairman*  
 Room 409, The College of Education Building

The Department of Educational Administration and Supervision does not offer a complete program at the undergraduate level; courses listed below are available to upper-division undergraduate students.

### 4410. Elementary School Administration. (3). (486)

A study of the major aims of the elementary school; planning the daily program through integration and related subjects; learning to keep and interpret various types of records and reports; the importance of proper teacher-pupil, teacher-teacher, teacher-administrator, and teacher-parent relationships; special emphasis on the P-TA program in Tennessee.

### 4400. School and Community Relationships. (3). (411)

The relationship of the school to community agencies concerned with health and safety, government, religion, occupations, extension services, children's organizations, adult education, cultural activities, cooperative movements, etc.; relationship of the community to such school activities as attendance, athletics, lunch, libraries, extra-curricular programs, home study, records and reports, guidance, etc.

*(The following course, offered in The Graduate School, is open to undergraduates within 36 semester hours of graduation. This course does not carry graduate credit nor is it applicable to any degree offered in The Graduate School.)*

### 5150. High School Administration. (3). (S584)

Modern practices in organizing and administering secondary schools; types of high schools; selection and assignment of staff; program of studies; records; management of buildings and grounds; pupil personnel; guidance; selection, retention, and improvement of teachers; and interpreting the school to the public.

*Graduate courses in Educational Administration and Supervision: For details see The Bulletin of The Graduate School.*

## ELEMENTARY EDUCATION

PROFESSOR RODNEY TILLMAN, *Chairman*  
 Room 417, The College of Education Building

The Department of Elementary Education offers a major in elementary education and minors in elementary education and library service; requirements are listed on page 163.

ELEMENTARY EDUCATION

2011. **Foundations of Educational Thought and Practice.** (3). (203)  
An overview of the whole field of education, with emphasis on those things a prospective teacher should know at the beginning of his professional preparation.
2111. **Human Growth and Development.** (3). (102)  
An attempt to help the student understand child nature and development, to appreciate the fact that all behaviour is caused, and to form the habit of seeking bases for both normal and abnormal behavior in situations at home, at school, and in the community.
3121. **The Psychology of Learning.** (3). (201)  
The psychology of learning as applied to activities under the guidance of the school.
3211. **Materials and Methods, Kindergarten through Third Grade.** (3). (383)  
A study of materials and instructional techniques uniquely necessary in working with children in kindergarten through third grade.
3241. **The Teaching of Language Arts in the Elementary School.** (3). (385)  
(formerly The Teaching of Reading and the Other Language Arts in the Elementary School)  
The basic concepts of language teaching and learning with a consideration of all the language arts—listening, speaking, reading, and writing—placing particular emphasis on their interrelationships.  
PREREQUISITES: Education 2011, 2111, 3121.
3251. **Teaching Methods in Elementary School Mathematics.** (3). (386)  
A study of newer math concepts and activities to be used in developing understanding. PREREQUISITES: Education 2011, 2111, and 3121.
3261. **Teaching Methods in Elementary School Science.** (3). (386)  
A study of the natural environment as a child would view it; activities which challenge a child; reasons for the use of certain methods. PREREQUISITES: Education 2011, 2111, and 3121.
3271. **Teaching Methods in Elementary School Social Studies.** (3). (387)  
A basic course involving methods and materials appropriate to each developmental level of the elementary school child. PREREQUISITE: Education 2011, 2111, and 3121.
3411. **Survey of Preschool Education.** (3). (382)  
Philosophy and theories of preschool education; physical, emotional, social, and mental development of preschool children; keeping of records; working with parents; selecting equipment and supplies; curriculum content; planning a course of study. PREREQUISITE: Education 2011, 2111, and 3121.
3821. **Observation, Participation, and Practice in the Elementary School.** (3). (325)  
A preparatory course for directed student teaching in the elementary school. PREREQUISITE: Education 2011, 2111, and 3121.

- 3901. Special Problems in Instruction. (1 to 3). (351)**  
Individual investigation in the area of instruction. **PREREQUISITE:** experience as a teacher or satisfactory evidence of being qualified to benefit from such a course.
- 4242. The Teaching of Developmental Reading. (3). (446)**  
(formerly Improving the Teaching of Reading)  
Theoretical background for developmental reading instruction, and practical consideration of methods and materials designed for teaching sequential reading skills in the primary and intermediate grades. **PREREQUISITES:** Education 3241 or classroom experience.
- 4245. The Teaching of Children's Literature in the Elementary School. (3). (445)**  
A course designed to improve the methods of teaching children's literature in the elementary school, including units on story telling, dramatization, choral speech work, and the correlation of literature with the content subjects.
- 4252. The Teaching of Modern Mathematics in the Elementary School (Grades 1-8). (3). (443)**  
An advanced course acquainting prospective and experienced teachers with the mathematical processes required of the elementary school child and the reasons why certain methods are used.
- 4262. The Teaching of Natural Science in the Elementary School. (3). (442)**  
An advanced course in the study of the natural environment as a child would view it, including a survey of suitable equipment and materials for the elementary classroom and limited experience as carrying on experiments at the child's level.
- 4301. Audio-Visual Instructional Materials In Education. (3). (466)**  
Introduction to means for effective preparation and utilization of selected multi-media materials. Laboratory practice in operation of audio-visual equipment and development of selected materials and techniques centered around student interests. Emphasis on the implications of audio-visual media for teaching.
- 4421. Curriculum Problems and Trends in the Elementary School. (3). (462)**  
This course deals with general educational objectives and means of achieving them; the roles of the various school subjects and their inter-relationship; and the organization and use of units of work in the core curriculum.
- 4701. Workshop in the Improvement of Instruction. (3). (431)**  
This course is designed to assist both in-service and prospective teachers to improve the instruction-learning program; attention is given to the purposes of education, classroom learning, motivation of learning, utilization of materials, evaluation of teaching and learning, etc., and to the application of these elements in the several instructional areas of the elementary school and in the particular subject areas of the secondary school.
- 4721. Workshop for Teachers in the Elementary School. (3 to 6). (429)**  
A course designed to meet the needs of in-service teachers by offering an opportunity to work cooperatively on problems which are real to



teaching situations and which meet the needs of the individual. PRE-REQUISITE: teaching experience and permission of the director of the workshop.

**4751. Workshop in the Reading Program. (3 to 6). (448)**

Through the media of group study, discussion, demonstrations, directed observation, and laboratory work, participants will formulate plans for reading programs, including content, methods and techniques, materials, and evaluative criteria.

**4752. Institute for the Improvement of Reading Instruction I. (3).**

This course is designed to help teachers be more efficient and effective teachers of reading and better teachers in content areas that depend heavily on reading skills by building a deeper understanding of the developmental reading process and making the teacher a more able classroom-diagnostician, and increasing competency in teaching. PRE-REQUISITE: Restricted to selected students.

**4753. Institute for the Improvement of Reading Instruction II. (3).**

Continuation of Education 4752. PREREQUISITE: Education 4752, and restricted to selected students.

**4761. Aerospace Education in Schools. (3). (435)**

The purpose of this course is to provide teachers with aerospace knowledge and experiences and ways of utilizing this knowledge and experience in the classroom.

**\*4811. Directed Student Teaching in the Kindergarten. (3 to 6). (423)**

Observation of the growth and development of pupils and of methods of teaching; participation in school activities, culminating in assuming responsibility for teaching entire groups.

**\*4821. Directed Student Teaching in the Elementary School. (3 to 9). (425)**

Observation of the growth and development of pupils and of methods of teaching; participation in school activities, culminating in assuming responsibility for teaching entire groups.

**\*4822. Directed Student Teaching in the Elementary School. (3 to 6). (426)**

For the student who has completed six semester hours or less of student teaching in the elementary school and desires some additional experience.

\*For detailed information concerning the requirements for admission to the student teaching program, see page 162.

*Graduate courses in Elementary Education: For course descriptions and further details of the graduate program, see The Bulletin of The Graduate School.*

#### LIBRARY SERVICE

**3111. Books and Related Library Materials for Children. (3). (321)**

Primarily a reading course based on materials suitable for elementary school children: leisure-time interests and curricular needs; criteria for evaluating books and related materials such as magazines, phonograph records, radio programs, and films; aids used in their selection; types of literary and informational books, authors, illustrators, and publishers; story-telling and other devices for encouraging reading.

- 3121. Books and Related Library Materials for Young People and Adults. (3). (322)**  
 This course is presented in the same manner as Library Service 3111, but is adapted to materials on the junior and senior high school levels; attention is also given to adult books to enable librarians to work more effectively with faculty and community groups.
- 3131. Reference Materials. (3). (323)**  
 A study of reference materials useful in various areas of the elementary and secondary school curriculum; basic reference materials in every general field are studied, thus making the course desirable for teachers as well as librarians; practice in handling reference questions.
- 4231. Organization of Materials. (3). (411)**  
 Instruction and practice in simplified procedures for acquisition, preparation, organization, and circulation of books and related library materials.
- 4232. Cataloging and Classification. (3). (412)**  
 An introduction to the principles of classification of books; simplified techniques of cataloging books and other materials by the abridged Dewey decimal system; the use of printed cards.
- 4331. School Library Administration. (3). (421)**  
 The place of the library in the instructional and guidance program of the school and the philosophy and purposes of libraries and librarianship, including such problems as standards and evaluation, public relations and publicity, support, housing and equipment, training of assistants, and library-study hall relationships; field trips to different types of libraries.

*Graduate courses in Library Service: For details of the graduate program, see The Bulletin of The Graduate School.*

## ENGINEERING AND APPLIED SCIENCE

FREDERIC H. KELLOGG, *Dean*

*Room 215, The College of Education Building*

Requirements for degrees in engineering and applied sciences are listed on page 169.

- 2011. Statics. (3).**  
 Analysis of force systems by means of vector algebra; two- and three-dimensional systems; friction; centroids and moment of inertia. CO-REQUISITE: Mathematics 2321.  
*Three lecture hours per week.*
- 2012. Mechanics of Materials. (4).**  
 Analysis of stress and strain of deformable solids, tension, compression, torsion, flexure, combined stresses; mechanical properties. PRE-REQUISITE: EAS 2011 and Physics 2511.  
*Three lecture, three laboratory hours per week.*
- 3001. Basic Electrical Engineering I. (4).**  
 Fundamental properties of electrical circuits; basic concepts and circuit elements; analysis methods and network theorems; sinusoidal

steady-state response; introduction to transients. PREREQUISITE: Physics 2512, Mathematics 2322.

*Three lecture, three laboratory hours per week.*

**3002. Basic Electrical Engineering II. (4).**

A study of active vacuum, gas and solid state devices as elements of electric circuits; linear representation and operation. PREREQUISITE: EAS 3001.

*Three lecture, three laboratory hours per week.*

**3011. Dynamics. (3).**

Kinematics and kinetics of particles and rigid bodies; work and energy; impulse and momentum; introduction to mechanical vibrations. PREREQUISITE: EAS 2011 and Physics 2511. COREQUISITE: Mathematics 3391.

*Three lecture hours per week.*

**4001. Energy Conversion I. (4).**

Energy conversion by electromechanical methods, energy relations in singly and multiply excited magnetic systems, dynamic equations of magnetic systems, transformers and D. C. machines. PREREQUISITE: EAS 3001.

*Three lecture, three laboratory hours per week.*

**4011. Mechanics of Fluids. (4).**

Statics, kinematics, and dynamics of fluids; applications to measuring properties of water and air flows. PREREQUISITE: EAS 3011.

*Three lecture, three laboratory hours per week.*

**4021. Engineering Thermodynamics. (3).**

First, second, and third laws. PREREQUISITE: Mathematics 2322 and Physics 2512.

*Three lecture hours per week.*

**4031. Engineering Statistics. (3).**

Probability and statistical inference; applications to engineering and industrial problems; introduction to quality control and design of experiments. PREREQUISITE: Mathematics 2322.

*Three lecture hours per week.*

**4061. Materials Science I. (4).**

Structure and properties of engineering material using solid state physics and crystallography; elements, structure, alloys, mechanical, electrical and thermal properties. PREREQUISITE: Physics 2512, EAS 2012.

*Three lecture, three laboratory hours per week.*

**4062. Materials Science II. (4).**

Continuation of Materials Science I. PREREQUISITE: EAS 4061.

*Three lecture, three laboratory hours per week.*

**4111. Field Measurements. (4).**

Graphical analysis; principles of surveying; topography; earthwork calculations, alignment of curves, error analysis. PREREQUISITE: Mathematics 2322.

*Two lecture, six laboratory hours per week.*

**4112. Structural Analysis I. (4).**

Statically determinate structural systems; analytical and graphical

solutions; introduction to statically indeterminate structures. PREREQUISITES: EAS 4111 and 2012.

*Three lecture, three laboratory hours per week.*

**4211. Electromagnetic Field Theory I. (3).**

Fundamental laws of electric and magnetic fields in vector form; fields in dielectric and magnetic media; introduction to time varying fields; introduction to graphical analysis. PREREQUISITE: EAS 3001 and Mathematics 3391.

*Three lecture hours per week.*

**4212. Circuit Analysis. (4).**

Continuation of EAS 3001. Resonance, impedance and admittance functions, network theorems and analysis, the complex frequency plane, balanced polyphase circuits, magnetic coupling and application of Fourier analysis to electrical circuits. PREREQUISITE: EAS 3001.

*Three lecture, three laboratory hours per week.*

**4311. Principles of Design. (4).**

Advanced spatial relationships; intersections of plane, curved, and warped surfaces; working drawings; tolerances; nomographs. PREREQUISITE: Mathematics 2322.

*Two lecture, six laboratory hours per week.*

**4312. Production Analysis. (4).**

Machines, tools and processes used in modern production, project work. PREREQUISITE: EAS 2012.

*Three lecture, three laboratory hours per week.*

*(The following courses are open to undergraduates within 36 semester hours of graduation. None of these courses carries graduate credit nor is applicable to any degree offered in The Graduate School.)*

**5101. Soil Mechanics. (3).**

Physico-chemical basis of soil structure; identification and classification; permeability; compressibility; strength; applications. PREREQUISITE: EAS 2012.

*Two lecture, three laboratory hours per week.*

**5102. Applied Soil Mechanics. (4).**

Applications of theory to practical design of building foundations, retaining walls, hydraulic structures and machine foundations. PREREQUISITE: EAS 5101.

*Three lecture, three laboratory hours per week.*

**5111. Structural Design in Metals. (3).**

Current design techniques using metallic structural members; critical appraisal of code requirements. PREREQUISITE: EAS 4112.

*Two lecture, three laboratory hours per week.*

**5112. Structural Design in Non-metals. (3).**

Current design techniques using non-metallic structural members; critical appraisal of code requirements. PREREQUISITE: EAS 4112.

*Two lecture, three laboratory hours per week.*

**5121. Environmental Engineering I. (3).**

*Three lecture hours per week.*



**5122. Environmental Engineering II. (3).**

*Three lecture hours per week.*

**5131. Structural Analysis II. (3).**

Analytical solutions for statically indeterminate structures. PREREQUISITE: EAS 4112.

*Three lecture hours per week.*

**5201. Electronics. (4).**

Power amplifiers; feedback amplifiers; oscillators; modulation and detection; rectifiers; transistors; gas tubes. PREREQUISITE: EAS 3002.

*Three lecture, three laboratory hours per week.*

**5202. Pulse and Digital Circuits. (4).**

Timing, scanning, trigger and pulse circuits; video and broadband R-F amplifiers; generation, detection, transmission and radiation of V-H-F and U-H-F energy. PREREQUISITE: EAS 5201.

*Three lecture, three laboratory hours per week.*

**5211. Energy Conversion II. (4).**

Continuation of EAS 4001. Theory and analysis of synchronous machines, polyphase induction machines and fractional horsepower A. C. motors. PREREQUISITE: EAS 4001.

*Three lecture, three laboratory hours per week.*

**5212. Servomechanisms. (4).**

General equations of physical linear systems and their transfer functions. Transient analysis and stability of servo systems. The Bode plot, Nichols chart, Nyquist plot, Routh-Hurwitz criterion, root locus method and introduction to compensation techniques. PREREQUISITE: EAS: 4001.

*Three lecture, three laboratory hours per week.*

**5221. Electromagnetic Field Theory II. (4).**

Continuation of EAS 4211. Solutions to static field problems by graphical and numerical methods; time varying fields, simple solutions to the wave equation and applications. PREREQUISITE: EAS 4211.

*Three lecture, three laboratory hours per week.*

**5222. Molecular Electronics. (3).**

Fundamental particles: Quantum concepts; statistics; crystal structure; thermal, dielectric, magnetic and optical properties of solids; solid state devices. PREREQUISITE: EAS 5021.

**5231. Communication Theory. (3).**

Frequency and time domain. Modulation, random signal theory; autocorrelation; basic information theory, noise, communication systems. PREREQUISITE: Permission of instructor.

*Three lecture hours per week.*

**5301. Mechanical Design and Analysis I. (3).**

Kinematic analysis and design of cams, gears and linkages; velocity; acceleration, and force-analysis; gyroscopic forces; balancing; kinematic and force-analysis, (analysis by complex numbers.) PREREQUISITE: EAS 3011.

*Three lecture hours per week.*

**5302. Mechanical Design and Analysis II. (4).**

Strength, stiffness and stability of machine parts; problems in impact, creep, thermal stresses, residual stress and fatigue applied to components; analysis of pressure vessels, rotating discs. PREREQUISITE: EAS 5301.

*Three lecture, three laboratory hours per week.*

**5311. Thermodynamics of Fluid Flow. (3).**

Thermodynamics of fluid flow including dynamic and energy relations, incompressible, compressible, adiabatic and diabatic flows. PREREQUISITES: EAS 4011 and 4021.

*Three lecture hours per week.*

**5312. Power Generation. (4).**

Applications of principles of thermodynamics, heat and mass transfer and fluid mechanics to stationary power plants; fossil and nuclear fuel characteristics, selection, handling, and system design. PREREQUISITE: EAS 5321.

*Three lecture, three laboratory hours per week.*

**5321. Heat and Mass Transfer. (4).**

Conduction, convection, radiation, and diffusion; transport properties and their measurements; electrical analog, heat exchangers and high speed applications. PREREQUISITE: EAS 4021.

*Three lecture, three laboratory hours per week.*

**5322. Hydraulic - and Turbo - Machinery. (3).**

Fluid mechanics principles applied to pumps and turbines; theory and performance characteristics common to all fluid dynamics machinery. PREREQUISITE: EAS 5321.

*Three lecture hours per week.*

**5331. Mechanical Vibrations. (3).**

Kinematics of harmonic and non-harmonic vibrations; system of one and several degrees of freedom, free and forced vibrations; self-excited vibrations. PREREQUISITE: Mathematics 3391.

*Three lecture hours per week.*

## ENGLISH

PROFESSOR WILLIAM OSBORNE, *Chairman*  
*Room 467, Patterson Hall*

Requirements for the major and minor in English are listed on page 135. All candidates for graduation at Memphis State University are required to complete English 1101, 1102, 2101, 2102, or their equivalent. These courses must be scheduled consecutively through the freshman and sophomore years, or until completed and may not be dropped from the student's course load except under very special conditions. They must be taken in sequence; no credit will be allowed on any course until all the preceding courses have been completed successfully.

**0100. English for Foreign Students. (0).**

Training in the composition of English sentences and paragraphs with some attention to conversation.

- 1101. English Composition. (3). (111)**  
Training in the writing of English sentences, paragraphs, and longer compositions related to the reading of essays and short fiction.
- 1102. English Composition and Analysis. (3). (112)**  
Further training in English composition related to an introductory study of poetry, drama, and the novel. PREREQUISITE: English 1101 or equivalent.
- 2101. English Literature. (3). (211)**  
A survey of English literature from the beginning through the eighteenth century with attention to the development of forms and to the cultural context. PREREQUISITES: English 1101 and 1102 or the equivalent.
- 2102. English Literature. (3). (212)**  
A survey of English literature from the Romantic period to the present with continuing attention to the development of forms and to the cultural context. PREREQUISITES: English 1101, 1102, and 2101 or the equivalent.
- Note: No student may enroll for an upper-division English course until he has completed satisfactorily English 1101, 1102, 2101, 2102, or the equivalent.*
- 3211. The Medieval Period. (3). (350)**  
Readings in English authors chiefly of the fourteenth and fifteenth centuries related to study of Middle English.
- 3212. The Renaissance. (3). (340)**  
A study of the poetry and prose, chiefly non-dramatic, of the sixteenth and the early seventeenth century.
- 3213. The Seventeenth Century. (3). (341)**  
Poetry and prose from Donne and Bacon through Milton studied in relation to political and intellectual events of the period.
- 3214. The Eighteenth Century. (3). (342)**  
Poetry and prose from Dryden through Blake; detailed study of representative works and attention to theoretical aspects of neoclassicism and the advent of romanticism.
- 3221. The Romantic Period. (3). (351)**  
The poetry of Wordsworth, Coleridge, Shelley, Keats, and Byron, with collateral readings in the prose of the period.
- 3222. Victorian Poetry. (3). (352)**  
A study of major English poets writing between 1830 and 1900 with some consideration of the social, intellectual, and aesthetic interests of the period.
- 3223. Victorian Prose. (3). (353)**  
A study of English prose between 1830 and 1900 with emphasis on critical and philosophical works.
- 3224. The Twentieth Century. (3). (354)**  
A study of the major literary movements and techniques of English and American literature in the twentieth century.
- 3321. American Literature. (3). (301)**  
A survey of American literature from the beginning through the Romantic period.

3322. **American Literature.** (3). (302)  
A survey of American literature from the advent of Realism to the present.
3341. **The American Novel.** (3). (311)  
Reading of representative American novels of the nineteenth century with consideration of their relation to English and European work and to American developments in the genre.
3342. **The American Novel.** (3). (312)  
Reading of representative American novels from 1900 to the present, with attention to relevant literary and cultural developments in Europe and America.
3411. **World Literature.** (3). (361)  
A survey of European literature in English translation from Homer through the Renaissance.
3412. **World Literature.** (3). (362)  
A survey of European literature in English translation from about 1600 to the present.
3441. **The Continental Novel.** (3). (313)  
Critical analysis and appreciation of representative novels chosen from the works of important European writers from 1850 to 1950.
3501. **English Grammar.** (3). (442)  
A brief introduction to linguistic scholarship followed by a survey of current grammatical theory, a review of English grammatical terminology, and a consideration of the relation between grammar and style.
3701. **Theory and Practice in Literary Criticism.** (3). (400)  
An introduction to theory of literature related to exercises in practical criticism.
4231. **Chaucer.** (3). (421)  
A study of Chaucer as a literary artist, including a reading of representative works and discussion of their philosophical and social context.
4232. **Shakespeare's Tragedies.** (3). (432)  
Reading of all Shakespeare's tragedies, detailed critical examination of at least five of them, and consideration of the principles governing tragedy.
4233. **Shakespeare's Comedies and Histories.** (3). (433)  
A study of the best known comedies and histories.
4234. **Milton.** (3). (422)  
A study of Milton's development as a literary artist, with emphasis on his poetry but with some attention to his prose.
4235. **Tennyson and Browning.** (3). (423)  
A study of poems of different types by each poet with attention to his philosophy and religion and his relation to forerunners and successors.
4241. **The English Novel.** (3). (451)  
Reading of major English novels from the Renaissance to the mid-nineteenth century related to study of the origin and development of the genre.



4242. **The English Novel.** (3). (452)  
A study of major English novels from the mid-nineteenth century to the present with attention to developments in the genre.
4251. **English Drama.** (3). (411)  
A study of the development of the genre in England from medieval times to 1642.
4252. **English Drama.** (3). (412)  
A study of English drama from 1660 to the present, with attention to developments in the genre.
4321. **American Literature: Nationalism and Romanticism.** (3).  
A study of selected American writers from the national and romantic periods with background readings in philosophical, political, and critical sources.
4322. **American Literature: Realism and Naturalism.** (3).  
A study of selected American writers from the periods of realism and naturalism with background readings in philosophical, political, and critical sources.
4323. **Southern Literature.** (3). (470)  
A study of Southern literature from its beginning to the present with emphasis on twentieth-century authors.
4351. **American Drama.** (3). (413)  
The development of American drama as a literary form studied in relation to the English and European tradition and to currents in American thought.
4441. **The Short Story.** (3). (331)  
Reading of European, English, and American short stories of the nineteenth and twentieth centuries related to study of the origins and development of the genre.
4461. **Biblical Literature.** (3). (380)  
A study of selected books from the Old and New Testaments with emphasis on their literary value and with consideration of the place of the Bible in world literature.
4501. **History of the English Language.** (3). (441)  
A study of the historical development of English with attention to changes in sound, vocabulary, syntax, and meaning.
4601. **Creative Writing.** (3). (372)  
Discussion of technique of fiction and verse, analysis of models, and criticism of student work. PREREQUISITE: permission of instructor.
4602. **Expository Writing.** (3).  
Practical training in writing essays, articles and reports. Analysis of readings, with emphasis on organization, clarity, effectiveness.

*Graduate courses in English: For course descriptions and further details of the graduate program, see The Bulletin of The Graduate School.*

## FINANCE

(See ECONOMICS AND FINANCE)

# FRENCH

(See MODERN LANGUAGES)

## GEOGRAPHY

PROFESSOR PAUL HARDEMAN SISCO, *Chairman*  
*Room 109, Johnson Hall*

Requirements for the major and minor in geography are listed on page 136.

- 1101. Introduction to Earth Science I. (4). (111)**  
 An introductory study of earth-sun and earth-moon relations, the oceans and their movements, weather, and climate.  
*Three lecture, two laboratory hours per week.*
- 1102. Introduction to Earth Science II. (4) (112)**  
 An introductory study of maps as a basic tool in understanding earth phenomena, landforms, the structure and composition of rocks, soils, and their capabilities.  
*Three lecture, two laboratory hours per week.*
- 2301. A Survey of World Regions I. (3). (235)**  
 Regional geography of Europe, the Soviet Union, and the Middle East with emphasis on the people and their activities as related to the environment.
- 2311. A Survey of World Regions II. (3). (236)**  
 Regional geography of the Orient, the Pacific world, Africa, Latin America, and Anglo-America, with emphasis on the people and their activities as related to the environment.
- 3201. Economic Geography: Major Basic Resources. (3). (121)**  
 Man's development and use of such major basic resources as land, water, forests, and minerals.
- 3211. Economic Geography: Industrial and Commercial. (3). (122)**  
 An introductory study of manufacturing, trade, and transportation.
- 3302. Africa. (3). (335)**  
 A survey of a low latitude continent with high contrasts in cultural and physical phenomena.
- 3312. Anglo-America I. (3). (331)**  
 An analytical study of the cultural-physical complex in the area of the United States east of the Rockies.
- 3313. Anglo-America II. (3). (332)**  
 An analytical study of the cultural-physical complex in the western United States, Canada, and Alaska.
- 3314. Middle America. (3). (333)**  
 A study of the regions and resources of Mexico, Central America, and the West Indies as they relate to present and potential economic development.
- 3315. South America. (3). (334)**  
 An analysis of the regional economies, resources, and trade in the con-

tinent, with stress upon the changing significance of the landscape as related to national and international problems.

3401. **Historical Geography of Europe.** (3). (321)  
An analysis of human occupancy in Europe during selected periods, with a study of significant relationships between the physical and cultural features.
3402. **Historical Geography of the United States.** (3). (322)  
A study of the geography of selected areas of the United States for sequent periods of their occupancy by the white man.
3411. **Principles of Conservation.** (3). (351)  
Current problems and responsibilities relating to the conservation of soil, minerals, forests, water, wild life, and the natural beauty of the earth.
3501. **Cartography.** (3). (341)  
An introductory course in (1) map projections, grids, scales, symbols, and (2) map drafting for geographical uses. Lectures and laboratory work.
3502. **Map Intelligence.** (3). (342)  
An intensive investigation of charts, graphs, maps, and aerial photography as geographical tools. Lectures and laboratory work in the Johnson Hall Map Library, a depository of the United States Army Map Service for all maps and material it provides.
3511. **Photo Interpretation.** (3). (343)  
A survey course dealing with the art and science of obtaining geographic information from landscape surveys by means of photography.
- \*4111. **Earth Science I. The Atmosphere.** (3). (412)  
An analytical study of the physical processes underlying the behavior and responses of the atmosphere and the application of this general body of knowledge to an understanding of the relationship of man to this important element of his environment.
- \*4121. **Earth Science II. The Earth.** (3). (411)  
An analytical study of land forms, their changes, and their uses to man.
- \*4122. **Earth Science III. The Soil.** (3). (413)  
An analytical study of soils to include their physical, chemical, and biological qualities, and their classes, uses, and measures of conservation.
- \*4131. **Earth Science IV. The Oceans.** (3). (414)  
An analytical study of the oceans to include their physical, chemical, and biological qualities; their movements, resources, climatic influences, and importance for transportation.
4304. **Western Europe.** (3). (431)  
A geographic analysis of the lands west of the Iron Curtain.
4305. **The Soviet Realm.** (3). (432)  
A regional analysis of the Soviet Union and its satellites.

4306. **Asia South of the Soviet Realm.** (3). (433)  
A consideration of the significance of regional differences in Japan, China, and India, and a brief survey of the remaining areas.
4316. **The South.** (3). (436)  
A specialized study of selected regions in the South with emphasis on changes and trends in the cultural-physical complex.
4317. **Tennessee.** (3). (437)  
A comparison of the human-use, political, and physical regions of the state.
4421. **Geopolitics.** (3). (422)  
An analysis of the world's political regions, with primary emphasis placed on the varied factors affecting the political importance of the principal powers and power blocs. Individual student study into selected problems is an integral part of this course.
4431. **Urban Land Uses.** (3). (461)  
A study of the allocation of land for urban uses; the adjustments and adaptations to existing physical phenomena; the patterns, functions, and forms of specific urban land areas; and some of the continuous problems of urban development and growth.
4432. **City Planning.** (3). (462)  
The fundamental principles of urban planning, basic elements of a city plan, and the necessity of continuity in planning administration.
4433. **Urban Renewal.** (3). (463)  
Changing urban land uses, first in areas which must improve or rebuild obsolete patterns, functions, and forms; and second in areas with acceptable uses, structures, and institutions which in the interest and welfare of all the people must have additional space for growth and expansion.
4611. **Regional Field Study.** (6). (441-B)  
A comparative study of selected regions of the world, including library study of the regions to be traversed, a minimum of sixteen days of study in the regions, and oral and written reports. **PREREQUISITE:** permission of the instructor.

\*Geography 4111, 4121, 4122, and 4131 are designed to be of interest and value to students in the physical sciences as well as those in the social sciences; assignments include lectures, laboratory work, and field trips.

*(The following course, offered in The Graduate School, is open to undergraduates within 36 semester hours of graduation. This course does not carry graduate credit nor is it applicable to any degree offered in The Graduate School.)*

5422. **Political Geography.** (3). (S525)  
The content and philosophy of political geography as illustrated by a broad survey of major writers in the field followed by student analysis of individual nation-states.

*Graduate courses in Geography: For course descriptions and further details of the graduate program, see The Bulletin of the Graduate School.*



# GEOLOGY

PROFESSOR ANTHONY R. CARIANI, *Chairman*  
*Room 303, The College of Education Building*

Requirements for the major and minor in geology are listed on page 136.

## 1101. Physical Geology. (4).

A study of the earth's internal composition and structure, the forces which establish the gross form of the earth's land masses and ocean basins, and the geologic processes of denudation which account for the diverse and complex detail of the earth's surface configuration.

*Three lecture, two laboratory hours per week.*

## 1201. Historical Geology. (4).

The earth's origin and geologic history as interpreted from the stratigraphic and paleontological records, emphasizing the succession of geologic and biogenetic events which have led to the present-day distribution of land and water, configuration of coastlines, topography of land surfaces and ocean basins, and form and distribution of life. PREREQUISITE: Geology 1101.

*Three lecture, two laboratory hours per week.*

## 2311. Crystallography and Mineralogy. (3).

Introduction to crystallography and crystal chemistry. Physio-chemical properties and identification of the important ore and rock forming minerals. PREREQUISITES: Geology 1101 and 1201. PREREQUISITES or COREQUISITES: Chemistry 1111 and 1112.

*Two lecture, two laboratory hours per week.*

## 2312. Determinative Mineralogy. (3).

A continuation of Geology 2311, with emphasis on mineral identification. PREREQUISITE: Geology 2311.

*Two lecture, two laboratory hours per week.*

## 2512. Structural Geology. (3).

Rock structures; origin, criteria for recognition and solution of structural problems.

*Two lecture, two laboratory hours per week.*

## 3211. Introduction to Paleontology. (4).

The study of fossil invertebrates. PREREQUISITES: Geology 1101 and 1201.

*Three lecture, two laboratory hours per week.*

## 3311. Megascopic Petrology. (3).

Study of megascopic characteristics of rocks, field classification and relationships of igneous, sedimentary, and metamorphic rocks. PREREQUISITES: Geology 2311 and 2312.

*Two lecture, two laboratory hours per week.*

## 3712. Sedimentation and Stratigraphy. (3).

Principles of stratigraphy and sedimentation; interrelationships of structure, stratigraphy, and environments of deposition. PREREQUISITES: Geology 2512 and 3211.

*Three lecture hours per week.*

**4121. Optical Crystallography. (4).**

The principles and methods of study of optical crystallography. The use of the polarizing microscope in the identification of minerals by the immersion method. PREREQUISITE: Geology 2311 and 2312.

*Two lecture, four laboratory hours per week.*

**4322. Microscopic Petrography. (4).**

Classification, description, and thin-section study of rocks by means of the petrographic microscope. PREREQUISITE: Geology 4121.

*Two lecture, four laboratory hours per week.*

**4332. Introduction to Geochemistry. (3).**

A study of the geological and chemical processes which govern or control the migration and distribution of the elements and atomic species of the earth in space and time. PREREQUISITES: Geology 2311 and 2312.

*Three lecture hours per week.*

**4411. Micropaleontology. (3).**

A study of microscopic fossils. Morphology, classification, evolution, and stratigraphic distribution of some of the more common groups. Photography and laboratory techniques in preparing microfossils for study. PREREQUISITE: Geology 3211.

*Six laboratory hours per week.*

**4511. Economic Mineral Deposits. (3).**

Origin, occurrence, and composition of metallic and non-metallic mineral deposits. PREREQUISITES: Geology 2311, 2312, and 2512.

*Three lecture hours per week.*

**4622. Geology Field Camp. (6-8).**

Mapping of the structure and lithology of a prescribed geologic area. To be offered during the summer. Course may be taken at a college field camp offered by other schools subject to approval of major adviser. PREREQUISITES: Geology 3311, 2513, and 3712.

**GERMAN**

(See MODERN LANGUAGES)

**GREEK**

(See CLASSICAL LANGUAGES)

**HEALTH, PHYSICAL EDUCATION,  
AND RECREATION**

PROFESSOR RALPH L. HATLEY, *Chairman*

*Room 211, Field House*

Majors and/or minors are offered in (1) health, (2) health and physical education, and (3) recreation. Requirements are listed on page 164.

**CORRECTIVE AND RECREATIONAL THERAPY PROGRAMS**

The University, in cooperation with Kennedy Veterans Hospital, offers programs in corrective and recreational therapy designed to prepare the stu-

dent to meet civil service requirements. Physical education majors may offer either of these programs in fulfillment of the second area of endorsement required for a degree in College of Education. For further information students should consult with the chairman of the Department of Health, Physical Education, and Recreation.

## HEALTH

- 1102. Personal Health. (3). (101)**  
The physiological basis of correct living, including fundamental biological facts; the psychological aspects of human behavior as they affect the individual health conduct and mental hygiene; the agents of disease and modern scientific methods of controlling them.
- 1202. Introduction to Public Health. (3). (150)**  
The organization and structure of official and voluntary health agencies, international, national, state, and local, with a consideration of their aims, objectives, and principles as they are related to the nurse and teacher.
- 2102. Safety and First Aid. (3). (231)**  
This course is designed to assist students in developing an understanding of the basic principles of accident prevention as applicable to the home, school and community, and techniques of administering immediate and temporary care in the event of an injury or sudden illness.
- 3102. Health Education in Schools. (3). (301)**  
An analysis of the health problems of school-age children in the home, school, and community, with emphasis on improving health behavior through sound health teaching; procedures and principles involved in coordinating health instruction with other areas of the curriculum; materials and resources for health teaching. PREREQUISITE: Education 2011, 2111, and 3121.
- 3202. Health Service in Schools. (3). (302)**  
Methods of organizing and implementing health measures in schools and of relating them to other community agencies; techniques for determining health status through screening processes; the detection of remedial defects and follow-up for correction; the promotion of health through environment and special health services; sanitation in the home, school and community as it affects the school child.
- 3306. Elementary School Health Education. (3). (303)**  
(For elementary education majors only.)  
The school health program involving health services, healthful school living, and health instruction is considered. Content and materials suitable for an elementary school health course are stressed.  
PREREQUISITES: Two of the following: Education 3241, 3261, 3271.
- 3402. Safety Education. (2). (321)**  
An orientation in the various methods, techniques and teaching devices in safety education and first aid courses with special emphasis placed on the home and leisure activities. Successful completion of this course qualifies one for the Red Cross first aid instruction certificate.  
PREREQUISITES: Health 2102 or ARC Advanced certificate.
- 3502. Prevention and Care of Athletic Injuries. (3). (345)**  
Practical and theoretical aspects of treatment of athletic injuries in an athletic training program; supplies, training table, therapeutic equipment, and techniques in conditioning and bandaging.

- 4302. Observation in Community Agencies. (3). (416)**  
 An introduction to the purposes, objectives, functions, and programs of a variety of community health and welfare agencies, with opportunities to visit official and volunteer agencies. Application should be made at least 60 days before the student plans to enroll in the course. **PREREQUISITE:** permission of the chairman of the Department of Health, Physical Education, and Recreation.
- \*4502. Problems in Health Education. (1 to 3). (\*434)**  
 Designed to afford opportunities for prospective or in-service school and other professional personnel to work individually or in groups on health education factors in the solution of practical problems. **PREREQUISITE:** permission of the instructor.
- 4602. Supervision and Administration in Health. (3). (450)**  
 The functions, principles, and procedures of supervision and administration of health, with emphasis on the relationship and responsibilities of personnel in planning, promoting, improving, and evaluating the total health activities in the family-centered health services; legal and legislative aspects of health activities.
- 4702. Trends and Problems in Public Health. (3). (470)**  
 A review of the historical development and current trends in professional nursing as a community service; the various needs and demands for medical care; the contribution of the professional personnel in providing for total health services and education.
- 4802. Group and Intergroup Hygiene. (3). (480)**  
*New course; number formerly assigned to "Mental Hygiene," no longer offered.*  
 Environmental sanitation and its role in the control and spread of disease.
- 4902. Health Statistics. (3). (480)**  
 A study of the statistical method, including collection, analysis, and presentation of numerical data pertaining to health problems.
- \*Credit may be earned in only one of the following courses: Health 4502, Physical Education 4303.

*Graduate Courses in Health: For details of the graduate program, see The Bulletin of The Graduate School.*

#### PHYSICAL EDUCATION

*(For details of the physical education requirements for graduation, see page 109).*

- 1001. Orientation to Physical Activity. (1). (100)**  
 Orientation to physical activity (for men); orientation and fundamental movements (for women); one semester required of all students (except majors and minors in health and physical education). Transfer students with at least one semester hour of physical education credit from a previous college need not take Physical Education 1001 as a prerequisite for physical education courses.
- 1101. Orientation for Physical Education and Recreation Majors and Minors. (1). (111)**  
 Fundamental movements, touch football, basketball, and speedball (for men); conditioning, volleyball, and basketball (for women). This



course is required of and restricted to students majoring or minoring in physical education and/or recreation.

### 1---. Selected Physical Activities. (1).

Two or three semesters required of all students, the specific course number to be selected from the following list. **PREREQUISITE:** Physical Education 1001.

1101. (See description above)	(111)	1271. Modern Dance	
1111. Beginning Swimming		(men and women)	(243)
(men and women)	(219 & 258)	1281. Modern Dance (advanced—	
1121. Intermediate Swimming		men and women)	(244)
(men and women)	(259)	1291. Archery and Bowling	
1131. Survival Swimming		(women)	(245)
(men and women)	(260)	1301. Weightlifting (men)	(213)
1141. Swimming-Lifesaving		1311. Archery, golf, and bowling	
(men and women)	(261)	(men and women)	(245)
1151. Synchronized Swimming		1321. Tennis and recreational	
(men and women)	(266)	games (men and women)	(246)
1161. Handball (men and women)	(220)	1331. Outdoor Education Activities	
1171. Beginning Gymnastics		(men and women)	(270)
(men and women)	(221 & 264)	1341. Four Wall Racket Sports	
1181. Combatives (men)	(212)	(men and women)	
1191. Fencing (men and women)	(262)	1351. Square and Round Dance	
1201. Adapted Physical Education		(men and women)	
(men and women)	(211 & 251)	1401. Bowling (men and women)	(214)
1211. Soccer, Speedball, and		1501. Tennis	
Volleyball (women)	(252)	(men and women)	(215 & 256)
1221. Fieldsports, Softball,		1511. Advanced Tennis	
and Track (women)	(253)	(men and women)	
1231. Equestrian (men and women)	(263)	1601. Golf	
1241. Rhythms for Elementary		(men and women)	(216 & 257)
School	(240)	1611. Advanced Golf	
(for elementary education		(men and women)	
majors)		1701. Volleyball and Softball	
1251. Folk and Social Dance		(men)	(217)
(men and women)	(241)	1801. Badminton	
1261. Tap Dance		(men and women)	(218 & 255)
(men and women)	(242)	1901. Advanced Badminton	
		(men and women)	(265)

### 2103. Fundamentals and Techniques of Football. (2). (281)

Fundamentals of football coaching with special emphasis on blocking, tackling, passing, punting, catching; principles of line and backfield work, playing the various positions; formation of plays, generalship, signal systems, and scouting; coaching problems; study of the rules.

### 2203. Fundamentals and Techniques of Basketball. (2). (282)

The theory and practice of basketball coaching, history of the game, and study of the rules; offensive and defensive systems; drills for the development of fundamental skills; training and conditioning of basketball squads.

### 2303. Fundamentals and Techniques of Track and Field. (2). (283)

The accepted forms of starting, hurdling, distance running, pole vaulting, discus and javelin throwing, and sprinting; physical conditions affecting speed, endurance, and fatigue; and selection and preparation of contestants for track and field events; managing and officiating games and meets; study of rules.

### 2403. Fundamentals and Techniques of Baseball and Softball. (2). (284)

The theory and practice of baseball coaching, with attention given to the coaching of the individual in base running, fielding, batting, and pitching; detailed study of each position; offensive and defensive team play; officiating; scoring; study of rules.

- 2503. History and Principles of Physical Education. (2). (299)**  
A study of physical education systems and practices from the beginnings to the present time, designed to show the place of a sound physical education program in the modern school system; underlying principles common to all epochs; changes related to political and economic cycles.
- 2603. Sports Officiating. (3).**  
A study of the rules, interpretations, and mechanics of officiating in football, basketball, baseball, etc.
- 2703. Water Safety Instructor. (2).**  
Analysis, practice, and teaching of swimming and life saving skills and general water safety practice. PREREQUISITE: Physical Education 1141.
- 3103. Materials and Methods in Team Sports for Women. (3). (327)**  
Fundamentals of teaching and coaching team sports, including history, rules, skills, and teaching progressions; laboratory experience in intramural and activity classes. PREREQUISITES: Physical Education 1101 and 1221.  
*Two lecture, two laboratory hours per week.*
- 3203. Techniques of Individual Sports. (2). (328)**  
Study of teaching methods, instruction and participation in individual recreational sports, tumbling, mass gymnastics, and conditioning activities; means of providing facilities for these activities. PREREQUISITES: Physical Education 1291 and 1321.  
*Two lecture, two laboratory hours per week.*
- 3303. Adapted Physical Education. (2). (342)**  
A theory course including lectures, demonstrations, and problems of the mechanics of physical deformities and their causes; abnormalities of the spine, feet, and other postural and functional conditions; and methods of class organization.  
*Two lecture hours per week, plus laboratory periods to be arranged.*
- 3403. Kinesiology. (2). (343)**  
Analysis of bodily movements in terms of the muscular forces operating on the bones. PREREQUISITES: Biology 1631 and 1632.
- 3503. Rhythms and Dance. (2). (351)**  
Basic theory, participation, techniques, materials, and teaching methods in rhythmic activities from grades 7 through 12. PREREQUISITE: Physical Education 1251.  
*Laboratory periods to be arranged.*
- 3603. Methods and Supervision of Physical Education in the Elementary Schools. (2). (371)**  
Theory of and activities for physical education in grades 1 through 9, including teaching methods, program planning, and participation in stunts, mass gymnastics, relays, informal games, team games, individual and dual sports, and mimetics; practical experience is gained through observing and directing play activities for children in the University Campus School. (For majors and minors in physical education and majors in recreation).  
*Laboratory periods to be arranged.*

**3703. Physiology of Exercise. (3).**

Primarily designed to establish a sound scientific basis of physiological principles on the various systems and organs of the body during muscular activity. Special emphasis is given in the principles of motor performance and training. PREREQUISITES: Biology 1631 and 1632.

*Three lecture hours per week.*

**3806. Physical Education for the Elementary School. (3). (361)**

Materials and methods for physical education in grades 1 through 6, including philosophy, program planning, and practical experience gained through observing and directing play activities for children in the University Campus School. (For elementary education majors only.) PREREQUISITE: Physical Education 1241.

*Laboratory periods to be arranged.*

**4204. Tests and Measurements in Health and Physical Education. (3). (432)**

A study of the various tests in the field of health and physical education, including uses and interpretation of elementary statistical techniques.

**\*4303. Problems in Physical Education. (1 to 3). (\*434)**

Designed to afford opportunity for prospective or in-service school and other professional personnel to work individually or in groups on physical education factors in the solution of practical problems. PREREQUISITE: permission of the instructor.

**4403. Supervised Clinical Training in Corrective Therapy. (6). (444)**  
*(formerly Clinical Practice)*

Supervised clinical practice in the Department of Physical Medicine and Rehabilitation Service at the Kennedy Veterans Hospital; instruction will be given in the conditioning, ambulation, and self-care of patients with neurological, pulmonary, geriatric, neuropsychiatric, speech, spinal cord, cardiac, and other types of disabilities.

**4503. Organization and Administration of Health and Physical Education. (3). (482)**

A study of administrative problems of health and physical education, including curriculum, facilities, buying and caring for equipment, general class organization, and organization of an intramural program.

*Graduate Courses in Physical Education: For details of the graduate program, see The Bulletin of The Graduate School.*

**RECREATION****3705. Outdoor Education and Camp Leadership. (3). (372)**

The philosophy, modern trends, administration, program content and methods of leadership in camping and outdoor education activities. Field trips to outdoor camping experiences.

**3905. Introduction To Recreation. (3).**

An understanding of the nature of the recreation experience and its importance to the individual; the influence of leisure on society and the philosophies of recreation. A study of the history and development of the recreation movement.

\*Credit may be earned in only one of the following courses: Physical Education 4303, Health 4502.

- 4105. Recreational Leadership. (3). (426)**  
Development of skills and techniques necessary for successful leadership in city, county and school recreation programs.
- 4205. Supervised Clinical Training in Recreational Therapy. (6).**  
Supervised clinical training in the Recreational Therapy Department of the Physical Medicine and Rehabilitation Service at the Memphis V. A. Hospital. Instruction will be given in arts and crafts, radio, television programming, social activities, adapted sports, music, allied ward and clinic activities for patients with varied illnesses and disabilities.
- 4405. Organization and Administration of Recreation. (3).**  
An understanding of community organization, its philosophy, foundation and principles. An understanding of selected administrative practices that relate to successful recreational organization and administration.
- 4505. Recreation Surveys. (3).**  
Observation of different types of recreational programs in action under professional leadership and supervision. Written analysis of programs and facilities in connection with course work.
- 4605. Practicum in Recreation. (6).**  
Field experience providing an opportunity for practical application of classroom theory. At least 280 clock hours in professional field work in selected recreational settings according to student's particular area of emphasis.

*Graduate Courses in Recreation: For details of the graduate program, see The Bulletin of the Graduate School.*

## HISTORY

PROFESSOR AARON M. BOOM, *Chairman*  
*Room 342, Administration Building*

Requirements for the major and minor in history are listed on page 136. All candidates for graduation at Memphis State University are required to complete History 2601 and 2602; these courses are not open to students with fewer than 25 semester hours credit.

- 1301. The Development of World Civilization I. (3). (111)**  
Especially recommended for freshmen, this course traces the forms of civilization from their ancient beginnings through the seventeenth century.
- 1302. The Development of World Civilization II. (3). (112)**  
Especially recommended for freshmen, this course traces the forms of civilization from the beginning of the eighteenth century to the present.
- 2601. The United States to 1865. (3). (221)**  
A survey of the United States from discovery to the close of the Civil War. **PREREQUISITE:** sophomore standing.
- 2602. The United States since 1865. (3). (222)**  
A survey of the United States from the Civil War to the present. **PREREQUISITE:** sophomore standing.



3121. **History of England before 1660.** (3). (301)  
A survey of the development and growth of England into a nation, with attention given to constitutional progress and the achievements of the Tudor and Stuart periods. PREREQUISITE: junior standing and History 1301.
3122. **History of England since 1660.** (3). (302)  
A survey of the development of England's democratic government, considering economic, social, intellectual, diplomatic, and imperial affairs. PREREQUISITE: junior standing and History 1301 and 1302.
3200. **History of Spain.** (3). (371)  
A survey of Spanish institutions, culture, and politics from ancient times to the present. PREREQUISITE: junior standing.
3211. **Colonial Latin America.** (3). (315)  
A survey of political, economic, social and cultural development in Latin America from the pre-conquest era to 1808. PREREQUISITE: junior standing.
3212. **The Latin American Nations.** (3). (316)  
A survey of the major political, economic, and social trends in Latin America since 1808. Emphasis is placed on Argentina, Brazil, Chile, and Mexico. PREREQUISITE: junior standing.
3230. **History of Inter-American Relations from 1808 to the Present.** (3). (372)  
A study of the principal developments in Latin American countries since 1808. PREREQUISITE: junior standing.
3321. **History of Ancient Civilization I.** (3). (311)  
A study of the Ancient Near East and Greece through the time of Alexander the Great. PREREQUISITE: History 1301.
3322. **History of Ancient Civilization II.** (3). (312)  
A study of the Hellenistic World and of the rise and fall of the Roman Empire. PREREQUISITE: History 1301.
3801. **American Diplomatic History to 1889.** (3). (331)  
A study of American diplomacy to 1889. PREREQUISITE: junior standing and History 2601 and 2602.
3802. **American Diplomatic History since 1889.** (3). (332)  
A study of American diplomacy since 1889. PREREQUISITE: junior standing and History 2601 and 2602.
3821. **Economic History of the United States to 1865.** (3). (341)  
A study of American economic development to 1865. PREREQUISITE: junior standing and History 2601.
3822. **Economic History of the United States since 1865.** (3). (342)  
A study of American economic development since 1865. PREREQUISITE: junior standing and History 2602.
3841. **Constitutional History of the United States to 1865.** (3). (343)  
A study of the formative period and the early period of operations of the United States Constitution. PREREQUISITE: junior standing and History 2601.

- 3842. Constitutional History of the United States since 1865. (3). (344)**  
A study of the operation of the United States Constitution since 1865. PREREQUISITE: junior standing and History 2602.
- 3861. Social and Intellectual History of the United States to 1865. (3). (361)**  
A study of the main social and intellectual trends in the United States since 1865. PREREQUISITE: junior standing and History 2601.
- 3862. Social and Intellectual History of the United States since 1865. (3). (362)**  
A study of the main social and intellectual trends in the United States since 1865. PREREQUISITE: junior standing and History 2602.
- 3871. United States Urban History. (3).**  
A study of the development of American cities, including formation of local social, economic, and political institutions, and the impact of urbanization on the United States. PREREQUISITE: junior standing.
- 3900. History of Tennessee. (3). (351)**  
A study of the political, economic, and social development from 1769 to 1861. PREREQUISITE: junior standing and History 2601.
- 3920. The Old South. (3). (352)**  
A study of southern institutions prior to the outbreak of the Civil War. PREREQUISITE: junior standing and History 2601.
- 3930. The New South. (3). (353)**  
A study of the South from the Civil War to the present. PREREQUISITE: junior standing and History 2602.
- 3940. The West. (3). (354)**  
A study of the significance of the frontier in the development of the United States from the Revolutionary period to 1890. PREREQUISITE: junior standing and History 2601 and 2602.
- 4003. Historiography and the Philosophies of History. (3).**  
A survey of the important ideas which men in Western Civilization have entertained about the nature and meaning of history. Approximately one-fourth of the course will be devoted to a common body of readings and to class discussion of the basic problems involved; the remainder will be conducted on the basis of individual tutorials. PREREQUISITE: admission to the honors program.
- 4103. Honors Course in non-United States History. (3).**  
An investigation of selected aspects of the history of countries other than the United States, to be conducted largely on the basis of individual tutorials. PREREQUISITE: admission to the honors program.
- 4160. History of Russia before 1801. (3). (402)**  
A survey of Russia from early times to the beginning of the reign of Alexander I. PREREQUISITE: junior standing.
- 4161. History of Russia from 1801 to 1917. (3).**  
A survey of Russia from 1801 through the Revolution of 1917. PREREQUISITE: junior standing.

- 4240. History of Mexico. (3). (471)**  
A survey of the political, economic, social, and cultural development of Mexico from ancient times to the present. PREREQUISITE: junior standing.
- 4250. History of Brazil. (3). (472)**  
A survey of the political, economic, social, and cultural development of Brazil from early times to the present. PREREQUISITE: junior standing and History 3211.
- 4281. Africa South of the Sahara. (3).**  
A survey with major emphasis on the nineteenth and twentieth centuries. The age of imperialism and the impact of the West on Africa; the colonial policies of the European powers; the rise of the nationalist movements; the problems of newly independent nations; the role of African countries in world affairs. PREREQUISITE: junior standing.
- 4282. The History of North Africa. (3).**  
A survey with major emphasis on the nineteenth and twentieth centuries. The extension of European influence and control; the rise of nationalist movements; the role of these areas in world affairs. PREREQUISITE: junior standing.
- 4370. The Medieval World. (3). (451)**  
A study of the history of institutional forms beginning with the decline of the Roman Empire and ending with the beginnings of Renaissance life. PREREQUISITE: junior standing and History 1301 and 1302.
- 4380. The Renaissance World. (3). (452)**  
A study of the achievements and forces, political and economic, social and cultural, creative and intellectual, which made up the foundation of modern European civilization. PREREQUISITE: junior standing and History 1301.
- 4390. Europe in the Age of the Reformation. (3).**  
A consideration of the religious struggles, the social and intellectual milieu in the sixteenth and early seventeenth centuries. PREREQUISITE: junior standing.
- 4400. Europe in the Age of Reason. (3).**  
A consideration of the growth of royal absolutism, the political conflicts, the baroque synthesis, the rise of modern science, and Enlightenment thought in the seventeenth and early eighteenth centuries. PREREQUISITE: junior standing.
- 4440. The Era of the French Revolution. (3). (411)**  
A study of the Enlightenment, the French Revolution, and the Napoleonic era. PREREQUISITE: junior standing.
- 4450. Europe in the Nineteenth Century. (3). (412)**  
A study of Europe during the period 1815-1914. PREREQUISITE: junior standing.
- 4460. Europe in the Twentieth Century. (3). (413)**  
A study of Europe since the outbreak of World War I. PREREQUISITE: junior standing.

**4501. Intellectual History of Europe I. (3).**

Topics in the history of European thought and culture from the thirteenth through the seventeenth century. PREREQUISITE: senior standing and History 1301; or junior standing, History 1301, and consent of the instructor.

**4502. Intellectual History of Europe II. (3).**

Topics in the history of European thought and culture from the eighteenth century to the present. PREREQUISITE: senior standing and History 1302; or junior standing, History 1302, and consent of the instructor.

**4603. Honors Course in United States History. (3).**

An investigation of selected aspects of the history of the United States, to be conducted largely on the basis of individual tutorials. PREREQUISITE: admission to the honors program.

**4620. Colonial America, 1607-1763. (3) (421)**

A study primarily of the political development and institutions of the English Colonies in America before 1763, with some attention given to Spanish, French, and Dutch colonization. PREREQUISITE: junior standing and History 2601.

**4630. Era of the American Revolution, 1763-1790. (3). (422)**

A study of the origins and conduct of the American Revolution, the United States under the Articles of Confederation, and the writing and ratification of the Constitution. PREREQUISITE: junior standing and History 2601.

**4640. Early National Period, 1790-1850. (3). (423)**

A study of American history from unification until the beginnings of division. PREREQUISITE: junior standing and History 2601.

**4660. Civil War, 1850-1865. (3). (424)**

A study of division and conflict. PREREQUISITE: junior standing and History 2601.

**4670. Reconstruction, 1865-1877. (3).**

A study of national and sectional issues following the Civil War. PREREQUISITE: junior standing and History 2601 and 2602.

**4680. Emergence of Modern America, 1877-1914. (3). (425)**

A study of the United States from the end of Reconstruction to the outbreak of World War I. PREREQUISITE: junior standing and History 2601 and 2602.

**4700. Recent American History, 1914-present. (3). (426)**

A study of the United States from World War I to the present. PREREQUISITE: junior standing and History 2601 and 2602.

**4941. History of the American Indian. (3).**

The role of the Indian in American history. PREREQUISITE: junior standing and History 2601 and 2602.

*Graduate Courses in History: For course descriptions and further details of the graduate program, see The Bulletin of The Graduate School.*



# HOME ECONOMICS

PROFESSOR MARQUITA IRLAND, *Chairman*  
*Room 300, Manning Hall*

Requirements for the major and minor in home economics are listed on page 165.

Students interested in planning a program in home economics to meet the entrance requirements established by the American Dietetics Association for postgraduate internship should consult with the department chairman.

## CHILD DEVELOPMENT AND FAMILY RELATIONSHIPS

- 1100. Home Economics as a Profession. (1).**  
 The scope of Home Economics; educational preparation, professional orientation, and research pertinent to the field.
- 1101. Personal Development and Human Relations. (3). (171)**  
 Individual and group adjustment, influences contributing to successful marriage and family life.
- 2101. Child Development. (3). (471)**  
 A study of the physical, mental, social, and emotional development of the child from birth to six years; nursery school observation.
- 4201. Preparation for Marriage. (3).**  
 Courtship, marriage, and achievement of satisfaction in family life.
- 4301. Nursery School Practicum. (3). (473)**  
 Participation in and direction of various nursery school activities. **PRE-REQUISITE:** Home Economics 2101.  
*One conference, five laboratory hours per week.*
- 4401. Nursery School Practicum. (3). (474)**  
 For the student who has had or is taking Home Economics 4301 and desires additional experience.

## FOODS, NUTRITION AND INSTITUTIONAL MANAGEMENT

- 2102. Food Selection and Preparation. (3). (242)**  
 Principles underlying the selection and preparation of foods with an introduction to the planning and serving of meals. Open to freshmen.  
*One lecture, four laboratory hours per week.*
- 2202. Elementary Nutrition. (3). (241)**  
 Nutritive value of food, factors influencing body food requirement and health. Open to freshmen.
- 3302. Meal Preparation and Table Service. (3). (341)**  
 Nutrition fundamentals in individual and family dietaries, meal planning, marketing and table service for various occasions. **PREREQUISITE:** Home Economics 2102.  
*One lecture, four laboratory hours per week.*
- 3402. Advanced Nutrition. (2). (342)**  
 Fundamental principles of nutrition and their application in selection and planning of adequate diets for individuals and families.  
*One lecture, two laboratory hours per week.*

3502. **Quantity Cookery.** (3). (351)  
Practical problems in preparing and serving foods for large groups. Use of standardized recipes, calculation of food costs, and use of institution equipment. PREREQUISITE: Home Economics 2202.
3602. **Institutional Management and Equipment.** (3). (352)  
Observation and practice in handling problems of organization and management of quantity food service.
4102. **Diet Therapy.** (2).  
Dietary problems applicable to the prevention and treatment of disease in which therapeutic diets are of major importance. PREREQUISITE: Home Economics 2202 and 3302.  
*One lecture, two laboratory hours per week.*

## HOME MANAGEMENT

2103. **Health of the Family and Home Nursing.** (2). (291)  
Building health habits, protection against illness and accidents; simple procedures in caring for the sick. Open to freshmen.  
*One lecture, two laboratory hours per week.*
4103. **Family Economics.** (3). (482)  
Management of family resources as they relate to satisfying home and family life. Includes problems in consumer goods and services.
4203. **Housing and Equipment.** (3).  
A study of housing as it relates to conditions of family living. Principles underlying the construction, use, and care of household equipment.  
*Two lecture, two laboratory hours per week.*

## RELATED ARTS

1104. **Art in Everyday Life.** (3). (181)  
A study of the art elements and art principles through an analysis of everyday objects.
4104. **Home Furnishing.** (3). (481)  
Principles of design and color theory applied to the selection and arrangement of the house and its furnishings. PREREQUISITE: Home Economics 1104.  
*Two lecture, two laboratory hours per week.*

## TEXTILES AND CLOTHING

1105. **Clothing Selection and Construction.** (3). (111)  
Standards in selecting and purchasing; construction of cotton garments to meet individual needs.  
*One lecture, four laboratory hours per week.*
2205. **Clothing Construction.** (3). (211)  
Fundamental principles of clothing construction, fitting and finishing garments to develop techniques in handling wool, silk, and synthetic fabrics. PREREQUISITE: Home Economics 1105.  
*One lecture, four laboratory hours per week.*
3305. **Textiles.** (3). (312)  
A study of textile fibers used for clothing and house furnishing.  
*Two lecture, two laboratory hours per week.*

**3405. Consumer Problems in Clothing. (3). (313)**

A course in clothing selection and buying for men and women with emphasis on individual needs and economic problems involved.

**3505. Tailoring. (3).**

Selection and construction of tailored wool garments, using various tailoring techniques. PREREQUISITES: Home Economics 1105 and 2205.

**3605. Draping Design. (3).**

Dress design and construction developed through the media of draping techniques. PREREQUISITES: Home Economics 1105 and 2205.

## ITALIAN

(See MODERN LANGUAGES)

## JOURNALISM

PROFESSOR HERBERT LEE WILLIAMS, *Chairman*  
Room 164, Administration Building

Requirements for the major and minor in journalism are listed on page 137.

**1011. Survey of Mass Communications. (3). (111)**

Social background, scope, functions, and organization of modern communication media, with attention given to newspapers, magazines, motion pictures, radio, television, books, and comics.

**1012. Introduction to Modern Journalism. (3). (112)**

A study of the development of current techniques of writing for publication, with emphasis on the American press.

*Note: All journalism majors must have typing proficiency before admission to courses numbered 2000 and above.*

**2111. Elementary News Writing. (3). (211)**

A study of news story structure and the factors that determine the value of news, with consideration given to both the theoretical and practical aspects of news gathering and reporting; lecture and laboratory sessions.

**2112. Reporting. (3). (212)**

Gathering and writing news of the University community, with assignments arranged on *The Statesman* or suburban newspapers, or with the University Public Information Office. PREREQUISITE: Journalism 2111.

**2211. Typography. (3). (200)**

A lecture-laboratory study of the development of type and the processes of composition, engraving, stereotyping, and printing. Students are provided opportunities to practice the effective use of type and illustration in mass communication.

**2300. Advertising Procedure. (3).**

An exploration of the creative functions of advertising with emphasis on the role of the media.

- 3011. Picture Editing. (3). (340)**  
(formerly Photojournalism)  
Selection and arrangement of illustrative material for newspapers and magazines; analysis, use and influence of the news picture; techniques of the picture story; and the role of the picture magazine in the field of communication.
- 3111. Press Photography. (3). (325)**  
Taking pictures with the news camera, developing films, making enlargements, cropping and scaling for publication. Students may bring their own cameras. Open to non-majors with permission of the department chairman.
- 3112. Editing I. (3). (312)**  
Headline writing and editing practices with *The Statesman* used as a laboratory.
- 3113. Editing II. (3). (313)**  
Concentrated practice in editing and copyreading problems. Detailed study of newspaper and magazine page makeup. PREREQUISITE: Journalism 3112.
- 3114. Feature and Article Writing. (3). (332)**  
Techniques involved in writing the feature story; study of the magazine market and the specialized requirements of periodicals to which stories are submitted; students will write and submit articles for publication in magazines and newspapers and for acceptance by syndicates.
- 3115. Interpretative Reporting. (3). (322)**  
Reporting of the significantly important news with attention to analysis, interpretation, and investigation. PREREQUISITES: Journalism 2111, 2112, and junior or senior standing.
- 3116. The Magazine. (3). (380)**  
Historical backgrounds, contents, purposes, and readership of general magazines, business and trade papers, and specialized journals.
- 3117. Magazine Editing and Production. (3). (314)**  
Editing and production problems of magazines with emphasis on business, industrial, and home periodicals; headline and title writing, pictorial copy layout, staff organization, and production processes. PREREQUISITE: Journalism 3116, or permission of the instructor.
- 3210. Advertising Layout. (3). (314)**  
Basic technique in laying out the printed advertisement; introduction to the use of advertising mat service in layout.
- 3221. Advertising Copy Writing. (3). (314)**  
The principles of advertising psychology studied in relation to the proved techniques for writing effective copy; approximately half of the course is devoted to practice in writing copy and in preparing rough layouts.
- 3222. Advertising Sales. (3). (315)**  
Practical experience in the preparation and selling of completed advertisements; the student will service his own clients throughout the semester, using *The Tiger Rag* as a space medium. PREREQUISITE: Journalism 3221.



- 3223. Advertising Production. (3). (300)**  
Principles of typography for advertising composition and display; layout, copyfitting, and type selection in laboratory. PREREQUISITE: Journalism 2211.
- 3331. Radio News Writing and Editing. (3). (365)**  
The processing of news for radio, with attention given to radio news style and practice and the preparation of special-events reporting. One lecture per week and four hours per week working in the news rooms of Memphis radio stations.
- 3332. Introduction to Radio-Television. (3). (360)**  
A survey of the history of radio and television, principles of transmission and reception of signals, governmental and self-imposed regulations, and the responsibility of the broadcaster; intended to develop an awareness of the social implications of radio and television.
- 3333. Television Writing. (3). (370)**  
Writing scripts for telecasts of news, sports, interviews, special events, documentaries, and commercials, with special attention to the necessary studio operations.
- 3340. Cinematography. (3).**  
Introduction to fundamentals of 16mm motion picture photography, with emphasis on shooting news film for local television stations.
- 4001. Law of the Press, Radio, and Television. (3). (400)**  
Origin and development of the legal principles affecting freedom of expression, and provisions of the laws of libel, slander, copyright, and other statutes limiting communication in the fields of publishing and broadcasting.
- 4002. Writing Projects. (3). (401)**  
Internship for students who have completed basic journalism courses or whose experience has prepared them to handle the duties; students will work on the staff of *The Tiger Rag*, in the office of the University Public Information Office, or will do approved research in journalism.
- 4003. Writing Projects. (3). (402)**  
Continuation of Journalism 4002.
- 4004. Journalism in the Secondary Schools. (3). (421)**  
Organization and direction of journalism courses in the high school; financial problems of high school publications and their relation to educational objectives; public relations and preparation of news releases for school administrators. Intended primarily for those students who expect to teach journalism or to supervise publications in the high school.
- 4005. History of Journalism. (3). (411)**  
A study of the origin and development of American journalism; students who enroll in this course should have completed History 2601 and 2602 or the equivalent.
- 4006. Literature of Journalism. (3). (440)**  
A bibliographical approach to the field of mass communication, consisting of critical reading of selective works. PREREQUISITE: permission of the department chairman.

- 4008. Advanced Press Photography. (3).**  
A continuation of Journalism 3111 with emphasis placed on materials for duotones and for two-color, three-color, and four-color separation processes.
- 4111. The Editorial. (3).** (412)  
The work of the editor and the editorial writer, with emphasis on editorial problems, methods, policies, and style.
- 4221. Community Newspaper Management. (3).** (413)  
A survey of the economic, social, and cultural aspects of small town daily and weekly newspapers, with emphasis on the role of the editor in community life.
- 4222. Public Relations. (3).** (450)  
The development, scope, and modern role of public relations, with emphasis on case studies, lectures, and experimentation with major public relations tools and practices.
- 4232. Public Relations Techniques. (3).**  
Booklet production, writing news releases, preparing visuals for speeches, producing slide presentations, writing annual reports, planning and budgeting, and other tasks customarily assigned to the public relations practitioner. PREREQUISITE: Journalism 4222.
- 4242. Public Relations Projects. (3).**  
Students who have completed basic journalism and public relations courses are assigned as interns in local public relations offices to work under supervision of qualified practitioners. PREREQUISITE: Journalism 4222.

## LATIN

(See CLASSICAL LANGUAGES)

## LIBRARY SERVICE

(See ELEMENTARY EDUCATION)

## MANAGEMENT

ASSOCIATE PROFESSOR JAMES M. TODD, *Chairman*

*Room 101, The College of Business Administration Building*

Requirements for the major and minor in management are listed on page 151.

- 1010. Introduction to Business. (3).** (101)  
A survey course to acquaint beginning business students with the major institutions and practices in the business world, to provide the elementary concepts of business, and to act as an orientation course for selection of a specific major. Open to freshmen only.
- 2711. Business Statistics I. (3).** (271)  
(formerly 3710)  
Procedures of collection, analysis, presentation and interpretation of economic and business data. PREREQUISITE: Mathematics 1203 or higher.

- 3220. Labor Legislation. (3). (322)**  
Historic and philosophic background for labor legislation with emphasis on recent legislation in the labor area and the effect of these laws on social and economic institutions. PREREQUISITE: Junior or senior standing.
- 3510. Production Management I. (3). (345)**  
Development of scientific management; principles and mechanism of organization and management in manufacturing, including plant location and layout, mass production techniques, standardization conditions, and production controls. PREREQUISITE: Junior or senior standing.
- 3711. Business Statistics II. (3). (471)**  
(formerly 4710)  
Extension of the range of topics covered in Business Statistics I to include methods of correlation, analysis of variance, forecasting and general business research. PREREQUISITE: Management 2711.
- 3750. Introduction to Data Processing Systems. (3). (381)**  
A course designed to give an introduction to the characteristics of electronic machines and their use in computation and data processing. The objective is to give the student an understanding of the machines rather than to develop the advanced technical or mathematical aspects. PREREQUISITE: Mathematics 1203 or higher.
- 4210. Personnel Administration. (3). (421)**  
Employer-employee relationship; job analysis; recruitment, selection, training, transfer, promotion, and dismissal of employees; industrial unrest; wage plans and policies; employee health, interest, and morale; dealing with unions. PREREQUISITE: Junior or senior standing.
- 4220. Collective Bargaining. (3). (422)**  
Labor-management relations from the standpoint of collective bargaining contracts, with emphasis on the process of negotiating agreements, including procedures, tactics, and subject matter. Fall semester. PREREQUISITE: Junior or senior standing.
- 4410. Management of Business Enterprise. (3). (442)**  
Consideration is given to over-all policy formation and practice in the operation of new and going business concerns, with emphasis on problems of nonfinancial management. PREREQUISITE: Management 3410.
- 4420. Human Relations in Business. (3). (443)**  
A study of the principles of human relations as applied to business. PREREQUISITE: Management 3410.
- 4430. Introduction to Operations Research. (3). (443)**  
An introductory study of decision-making which concentrates on the model building process within the decision theory framework. Topics of linear programming, waiting line theory, game theory and statistical analysis of business problems will be approached from the manager's point of view with emphasis on problem identification. PREREQUISITE: Management 3711.
- 4510. Production Management II. (3). (445)**  
(formerly Industrial Management II).  
A course devoted to solving typical problems that arise in the plan-

ning, layout, control, operation, and administration of a manufacturing enterprise. PREREQUISITE: Management 3510.

- 4520. Production Control. (Same as Technology 4471). (3). (447)**  
A study of the elements of production and their coordination emphasized by visits to industrial plants.
- 4530. Plant Layout. (Same as Technology 4481). (3). (448)**  
Study of industrial plants, with emphasis on floor plans and placement of facilities. PREREQUISITE: permission of the instructor.
- 4540. Time and Motion Analysis. (Same as Technology 4491). (3). (449)**  
Work simplification, including analysis of jobs and trades, as applied in time and motion. PREREQUISITE: Management 4520.
- 4550. Statistical Quality Control. (3). (472)**  
A course emphasizing the modern statistical approach to the control of industrial quality. Topics treated include the Shewart Control Chart for Variables and Attributes, Acceptance Sampling, and Introduction to the Design of Industrial Experiments. PREREQUISITE: Management 3711.
- 4750. Electronic Data Processing and Programming. (3). (481)**  
A problem oriented course, dealing with the programming of digital computers. FORTRAN will be taught and applied to typical business problems, using the facilities of the Academic Computing Center. PREREQUISITE: Management 3750 and Mathematics 1212 or permission of the instructor.
- 4760. Application of Computers to Modern Business. (3). (482)**  
A continuation of Management 4750, applying FORTRAN to more advanced business problems. COBOL will be taught. Emphasis will be given to computer systems designed for typical business applications. PREREQUISITE: Management 4750 or permission of the instructor.
- 4910. Management Problems. (1 to 3). (495)**  
Student will carry on approved research projects in his major area under supervision of staff members. PREREQUISITE: Senior standing and permission of the department chairman.

*Graduate courses in Management: Some of the 4000 courses described in the preceding section may be taken for graduate credit. For further details of the graduate program see The Bulletin of The Graduate School.*

#### DIVISION OF BUSINESS FINANCE, INSURANCE AND REAL ESTATE

Requirements for the major and minor are listed on page 151.

- 3010. Business Law I. (3). (301)**  
Nature and classification of law, contracts, negotiable instruments. Study of selected cases. Both semesters. PREREQUISITE: junior classification or permission of the instructor.
- 3020. Business Law II. (3). (302)**  
Business organization, personal property, trade regulations, with emphasis on case studies. Both semesters. PREREQUISITE: Management 3010.



- 3310. Real Estate. (3). (331)**  
Real estate law, property description, methods of transferring property, joint ownership, tax sales and title to property, inheritance of real property. Spring semester. PREREQUISITE: junior classification or permission of the instructor.
- 3410. Business Organization and Finance. (3). (341)**  
Promotion, organization, and financing of business enterprise; principles underlying selection of business form; structure and trends of American enterprise system; financial management; emphasis is placed on small and medium-sized enterprises. Both semesters. PREREQUISITE: Accounting 2020.
- 3810. Principles of Risk and Insurance. (3). (335)**  
Theory, practice, and problems involved with life, fire, marine, casualties, and surety insurance; rates and rating; actuarial activities. Fall semester. PREREQUISITE: junior classification or permission of the instructor.
- 4310. Real Estate Law. (3). (431)**  
This course covers law and legal instruments as applied to real estate and is designed to serve the needs of property owners and those engaged in the real estate business. PREREQUISITE: Management 3310.
- 4320. Real Estate Finance. (3). (432)**  
Examination and analysis of the sources of funds for financing all kinds of real estate transactions, including FHA and VA types. PREREQUISITE: Management 3310.
- 4330. Property Management. (3). (433)**  
The fundamentals of management of real estate; examination and analysis of problems, duties, and responsibilities of the property manager. PREREQUISITE: Management 3310.
- 4340. Real Estate Appraisal. (3). (434)**  
The fundamentals of appraising residential, commercial, and industrial real estate. PREREQUISITE: Management 3310.
- 4350. Industrial Real Estate. (3). (430)**  
All phases of industrial real estate practices are covered. These include attractions to industry; financing industrial real estate; appraising industrial real estate; and selecting of industrial sites. PREREQUISITE: Management 3310.
- 4610. Corporation Finance. (3). (441)**  
Advanced treatment of financial management with emphasis on small and medium-sized enterprise and the forces underlying determination of policy; financial problems are considered in connection with re-funding, reorganization, mergers, and consolidations. Both semesters. PREREQUISITE: Management 3410.
- 4810. Property and Casualty Insurance. (3). (435)**  
The forms and functions of fire, marine, automobile, general liability, and other types of property and casualty insurance with emphasis on their application to commercial and industrial occupancies. A survey of current underwriting practice. PREREQUISITE: Management 3810.
- 4820. Life and Health Insurance. (3). (436)**  
The functions of life and health insurance with emphasis upon the need for insurance and the service of life and health insurance to the

American family and community. A study of the mechanics of private and public insurance and annuities. PREREQUISITE: Management 3810.

- 4830. Insurance Agency Management. (3). (437)**  
 Organization, management, and operation of insurance sales agencies. Equal emphasis is given to the problems and practices of the company-owned and the independent agency. PREREQUISITE: Management 3810.
- 4840. Advanced Property and Casualty Insurance. (3).**  
 Company and industry functions other than contracts, including rating, rate-making, reserves, auditing, underwriting, reinsurance, claims, production, engineering, and governmental supervision. PREREQUISITE: Management 3810.
- 4850. Social Insurance. (3).**  
 The nature and causes of economic insecurity in our society with emphasis on the broader aspects of public and private programs: the Social Security Act, Unemployment Compensation, Workmen's Compensation, Medicare and other approaches. The course de-emphasizes detailed facts and statistics which are otherwise readily available from various governmental agencies. PREREQUISITE: junior standing.
- 4860. Employee Benefit Programs. (3).**  
 Group insurance, the essence of fringe benefits for employees; a study of group life insurance, group health and accident insurance, group pension and profit-sharing plans. PREREQUISITE: junior standing.
- 4870. Risk Management. (3).**  
 Problems of the risk manager in small and large firms, methods of handling risk that serve as alternatives to obtaining insurance, and a brief survey of insurance as a standard for comparisons. PREREQUISITE: junior standing.
- 5010. Law of Taxation of Estates, Inheritances, and Gifts. (3). (S-503)**  
 A survey course of the law of taxation as applied to the transmission of property by gift or death and its impact upon accumulations of wealth. The constitutional basis, statutory implementation, administrative regulation, and court interpretation of the laws of the United States and the various states. PREREQUISITE: Management 3020.
- 5020. Estate Planning. (3). (S-505)**  
 Estate planning from an individual viewpoint designed to create, maintain, and distribute the maximum estate possible. Consideration is given to the aspects of law, insurance, real estate, investments, and taxes as they relate to the creation of estates by individuals and those who will be engaged in assisting others. PREREQUISITE: Management 5010.

## MARKETING

PROFESSOR CHARLES ROBERT SPINDLER, *Chairman*

*Room 105, The College of Business Administration Building*

Requirements for the major and minor in marketing are listed on page 153.

- 3010. Basic Marketing. (3). (301)**  
 General survey of the marketing structure; development, functions, costs, institutions and pricing. Both semesters. PREREQUISITE: Second semester sophomore.

**3011. Marketing Institutions. (3).**

Analysis of existing marketing institutions at both wholesale and retail level with emphasis on their development, operating characteristics, and employment in the channels of distribution. Both semesters. PREREQUISITE or COREQUISITE: Marketing 3010.

**3012. Marketing Promotions. (3).**

An interdisciplinary approach to the total area of promotion, including an overview of the promotional process, insights into the operations of promotions (e.g., communications, psychology, sociology, and other disciplines), and an exploration into the "why" of the promotional process. Both semesters. PREREQUISITE or COREQUISITE: Marketing 3010.

**3080. Marketing Analysis. (3).**

An introduction into types of marketing analyses which will aid in evaluating the marketing operation so as to minimize risk and discover profitable and/or unprofitable elements in the marketing mix. Both semesters. PREREQUISITE: Marketing 3010.

**3140. Advertising Fundamentals. (3).**

Survey of the field of advertising including agencies, media, layout, copy, typography. Both semesters. PREREQUISITE or COREQUISITE: Marketing 3012, or permission of the instructor.

**3170. Advertising Problems. (3).**

A case study of the advertising functions, emphasizing the determination of advertising strategy; the planning of creative strategy; planning of media strategy; evaluation of advertising results and an introduction into organization and management of the advertising function. Both semesters. PREREQUISITE: Marketing 3140.

**3210. Logistics Administration. (3).**

A critical examination of the managerial aspects of the logistics function in the business enterprise. Consideration is given to the functioning of the logistics system from both an internal and external point-of-view. Fall semester. PREREQUISITE or COREQUISITE: Marketing 3010.

**3220. Industrial Marketing. (3).**

A comprehensive survey of the industrial market—products, structure and functioning. An examination of those segments of the industrial market concerned with agricultural raw materials and products purchased by governmental agencies is also included. Spring semester. PREREQUISITE or COREQUISITE: Marketing 3011.

**3320. Retail Store Management. (3).**

A study of the principles that underlie the successful operation of retail institutions as well as a survey of career opportunities and literature in the field of retailing. Both semesters. PREREQUISITE or COREQUISITE: Marketing 3011, or permission of instructor.

**3330. Retail Merchandising. (3).**

An analysis of the buying function at the retail level. Study is directed into the areas of organizing the buying function; determination of what to buy; selection of sources; timing of purchases; pricing and merchandising; and control of the buying function. Both semesters. PREREQUISITE: Marketing 3320.

**3410. Sales Fundamentals. (3).**

Covers the basic essentials of salesmanship, sales theory, sales tech-

niques and sales role playing. The history of selling and the salesman's role in our economy are included to provide a deeper understanding of the contributions made by the American salesman. Both semesters. PREREQUISITE or COREQUISITE: Marketing 3012, or permission of instructor.

**3430. Sales Promotion. (3).**

This course is designed to acquaint students with the vast and often unassigned area of marketing that exists between advertising and personal selling. This course brings into focus the vital marketing functions that must be performed by manufacturers or middlemen as products flow down the channels of distribution. Both semesters. PREREQUISITE: Marketing 3010 or permission of instructor.

**4010. Marketing Administration. (3).**

Study of marketing in depth using the case approach. Study includes consumer, product, market analysis, pricing, channel selection, promotion, wholesaling, retailing, and legal implications of the marketing system. Both semesters. PREREQUISITE: Marketing core and senior standing.

**4080. Marketing Research. (3). (491)**

Research methods and procedures used in the field of marketing to help solve business problems. Both semesters. PREREQUISITES: Marketing 3080 and Management 2711 and senior standing.

**4150. Advertising Media and Campaigns. (3).**

An investigation of the characteristics and uses of media by companies, product lines and reasons for selection. The last part of the semester will be devoted to the development of a campaign for a particular firm. Fall semester. PREREQUISITE: Marketing 3140.

**4160. Advertising Management. (3).**

A study of the advertising function as it relates to both the manufacturer and retailer who has own advertising department. Develops the objectives, development of the budget, and administration of the budget, and methods of evaluating the effectiveness of advertising effort. Spring semester. PREREQUISITE: Marketing 3140 and 3170.

**4220. Purchasing. (3). (422)**

A study of the policies for effective and efficient procurement of goods and services for today's industry. Close attention will be given to the measurement and evaluation of purchasing performance. Fall semester. PREREQUISITE: Marketing 3010.

**4230. Quantitative Analysis of Logistic Systems. (3).**

An analytical approach to planning movement systems. Emphasis is placed on the application of quantitative tools to spatial and temporal problems. Spring semester. PREREQUISITE: Marketing 3210.

**4310. Retail Store Promotions. (3).**

A comprehensive treatment of the promotional function of retail enterprises. Student is directed through an integrated study of all promotional aspects of retail store operation (advertising, sales promotion, display, publicity, public relations and personal selling). Emphasis is placed upon contemporary promotional problems of retail stores. Spring semester. PREREQUISITE: Marketing 3012 and Marketing 3320 or permission of instructor.



- 4330. Credit and Collections. (3). (485)**  
 A study of the American credit system and collection methods used today, significance of credit information, management of charge accounts, credit and collection correspondence, mercantile credit and importance of credit to our economic well-being. Fall semester. **PREREQUISITE:** Marketing 3010.
- 4410. Sales Management. (3).**  
 A survey course designed to define and describe the major sales management functions and to provide controlled practical application of sales management functions through the utilization of the case study approach. Ultimately, the student gains an overview of the operation of marketing departments through the synthesis of three primary divisions of marketing management—sales administration, sales personnel activities, and sales control. Fall semester. **PREREQUISITE:** Marketing 3410.
- 4420. Sales Training. (3).**  
 This course covers one of the most important staff activities within any marketing department—the training of sales personnel. Designed to develop salesmanship, the art of persuasion, into a teachable subject which will apply to the business world. Student is taught and self-taught, how to become a sales trainer and to develop an understanding of the training director's responsibilities. Spring semester. **PREREQUISITE:** Marketing 3410.
- 4420. Product Planning. (3). (425)**  
 A study of product analysis necessary from product conception to successful market penetration. Study of product planning in relation to place within the business organization, research and testing of product ideas, financing, pricing, channel selection, and promotion. Students will develop suitable product ideas and submit during semester in report form. Spring semester. **PREREQUISITES:** Marketing core and senior standing.
- 4530. International Marketing. (3).**  
 A study of the bases and promotion of foreign trade; international marketing organizations and methods; technical and financial features of international marketing. Fall semester. **PREREQUISITE:** Marketing 3010.
- 4910. Problems in Marketing. (1-3).**  
 Students will carry on approved research projects in their major area under the supervision of staff members. Both semesters. **PREREQUISITE:** senior standing and permission of the department chairman.
- 4991. Work Experience in Marketing I. (3).**  
 Seniors majoring in marketing may, after receiving approval of the department chairman and professor concerned, obtain actual experience by working a minimum of 200 hours in approved marketing positions. Student may not be enrolled for more than 12 academic hours when enrolling for credit in work experience. Both semesters.
- 4992. Work Experience in Marketing II. (3).**  
 Seniors majoring in marketing may, upon completion of Marketing 4991 with a grade of B or better, enroll for a second semester of work experience after receiving approval and meeting the requirements as stated above for Marketing 4991. Both semesters.

*Graduate courses in Marketing: For further details of the graduate program see The Bulletin of The Graduate School.*

# MATHEMATICS

PROFESSOR HOWARD S. KALTENBORN, *Chairman*  
Room 429, J. M. Smith Hall

Requirements for a major or minor in mathematics are given on page 137.

The Department of Mathematics offers general courses in mathematics and statistics for students in all departments of the University, with specially designed programs for the principal divisions of the University. The lower-level courses, and their purposes, are as follows:

**Liberal Arts or the Humanities:** Mathematics 1111, 1112. This sequence will satisfy the requirement in The College of Arts and Sciences for courses in mathematics or philosophy. A student who offers less than two units of high school mathematics for entrance must complete Mathematics 1201 before taking Mathematics 1111.

**Teacher Certification:** Mathematics 1181, 1182, 2581 for elementary certificate; Mathematics 1111 or any 1000-level course except 1201 for secondary certificate.

**Business Administration:** Mathematics 1201, 1202, 1203, 1312. With less than two units of high school algebra and geometry, the student will begin with Mathematics 1201; with two units he should begin with Mathematics 1202, and with three or more units he should begin with Mathematics 1203. Completion of Mathematics 1203 is required for graduation.

**Natural Science or Engineering:** Mathematics 1211, 1212, 1321, 2321, 2322. The student should offer four units of high school algebra and geometry, and he should begin with Mathematics 1321. If the student offers only three units, he should begin with Mathematics 1212. If he offers only two units, he should begin with Mathematics 1211. If he offers less than two units, he should begin with Mathematics 1201. Completion of Mathematics 2322 is required for a major in chemistry, engineering, mathematics, or physics.

Courses in mathematics should be elected from only one of the areas described above. If a student changes his major, he should consult an adviser in the Department of Mathematics concerning an acceptable substitution of courses to satisfy his new requirements in mathematics. Because of the similarity of the content of some courses at the freshman level, credit for at most 9 hours will be allowed in courses numbered below 1300.

## MATHEMATICS

### 1111. The Structure of Mathematics. (3).

Axiomatic point of view; sets; elementary logic; numeration; number concepts; structures of number systems; related sets and functions; introduction to permutations, combinations, and probability.

### 1112. The Structure of Mathematics. (3).

Complex numbers; elementary congruences; quadratic equations; polynomials; introduction to trigonometry; elementary probability; limit concept; polynomial calculus. PREREQUISITE: Mathematics 1111.

### 1181. Concepts of Number. (3).

Elements of set theory; introduction to logic; number symbols; number systems; fundamental operations of arithmetic.

### 1182. Concepts of Algebra. (3).

The structure of elementary algebra; mathematical phrases and sentences; equations and inequalities; applications. PREREQUISITE: Mathematics 1181.

**1201. Basic Mathematics. (3).**

Algebraic operations, linear systems, inequalities, exponents, logarithms. RESTRICTION: Credit allowed only when taken as first course in mathematics by student with less than two units of high school algebra or geometry.

**1202. Finite Mathematics. (3).**

Compound statements; decision trees; logical relations; sets and set operations; partitions and counting; binomial and multinomial theorems; flow diagrams; probability theory and stochastic processes; decision theory. PREREQUISITE: two units of high school algebra or geometry, or Mathematics 1201.

**1203. College Algebra. (3).**

Systems of equations and inequalities, binomial theorem, functions and graphs, logarithmic and exponential functions, graphs of linear and quadratic equations. PREREQUISITE: three units of high school algebra and geometry or Mathematics 1202.

**1211. Basic Mathematics. (3).**

Exponents; fractions; linear and quadratic functions and graphs; quadratic equations and systems; progressions; interest; binomial theorem; permutations and combinations; probability. PREREQUISITE: two units of high school algebra or geometry, or Mathematics 1201.

**1212. College Algebra and Trigonometry. (3).**

Axioms for numbers; inequalities; circle relations; trigonometric identities and graphs; polynomials; systems of equations; inverse trigonometric and exponential functions; complex numbers. PREREQUISITE: three units of high school algebra and geometry, or Mathematics 1211.

**1312. Elementary Calculus. (3).**

Introduction to the concepts and methods of elementary calculus of one real variable as related to rational, exponential, and logarithmic functions; the nature of derivatives; differentiation; application of the derivative; the nature of integration; the definite integral; applications of the definite integral. PREREQUISITES: Mathematics 1203 or 1211.

**1321. Analytic Geometry and Calculus. (5).**

Essentials of analytic geometry including the straight line; the nature of derivatives; differentiation of algebraic functions; applications of the derivative; basic concepts of integration and the definite integral; applications of the definite integral. PREREQUISITE: four units of high school algebra, geometry and 12th grade mathematics, or Mathematics 1212.

**2291. Mathematics of Finance. (3).**

Compound interest and annuities with applications; introduction to mathematics of life insurance. PREREQUISITE: Mathematics 1211 or 1212.

**2321. Analytic Geometry and Calculus. (5).**

Differentiation, integration and analytical aspects of the transcendental functions; methods of integration; additional topics in plane analytic geometry; hyperbolic functions; polar coordinates. PREREQUISITE: Mathematics 1321.

**2322. Analytic Geometry and Calculus. (5).**

Introduction to the calculus and algebra of vectors; parametric equations; vectors and analytic geometry in 3-space; partial differentiation;

multiple integrals; infinite series. PREREQUISITE: Mathematics 2321.

**2581. Concepts of Geometry. (3).**

Introduction to the idea of proof in a postulational system; development of the geometric relationships independent of number, including congruent triangles, similar triangles, parallelograms, and circles; applications of number in geometry including coordinate geometry, lengths, areas, and volumes. PREREQUISITE: Mathematics 1182.

**3111. Foundations of Analysis. (3).**

Arguments and proofs; symbolic logic; the axiomatic method; the real number system; functions and sequences; limits; continuity. PREREQUISITE: Mathematics 2321.

**3241. Matrix Theory. (3).**

Matrix algebra; elementary operations; equivalence; determinants; similarity; polynomial matrices; matrix analysis; applications. PREREQUISITE: Mathematics 2321.

**3391. Differential Equations. (3).**

Ordinary differential equations including series of solutions. PREREQUISITE: Mathematics 2322.

**3392. Vector and Tensor Analysis. (3).**

Determinants, e-systems and certain transformation equations; calculus of vectors, integrals dependent on a parameterized arc; integral transformations including Gauss' divergence theorem and Stokes' theorem; tensors and applications. COREQUISITE: Mathematics 3391.

**3711. Programming for Digital Computers. (3).**

Complete treatment of FORTRAN programming; flow-charting and algorithm specification; subroutines; examples of applications of statistics, numerical analysis, and simulation. PREREQUISITE: Mathematics 2321 or 1321 and permission of instructor.

**4111. Philosophy of Mathematics. (3).**

Logical methods; axiomatic systems; independency and consistency; the nature of mathematics. PREREQUISITE: Mathematics 3111.

**4151. History of Mathematics. (3).**

The development of mathematics from the earliest times to the present; problem studies; parallel reading and class reports. PREREQUISITE: Mathematics 3111.

**4171. Undergraduate Mathematics Seminar. (1).**

Readings and discussions of mathematical topics of current interest. PREREQUISITE: permission of the instructor.

**4172. Undergraduate Mathematics Seminar. (1).**

Readings and discussions of mathematical topics of current interest. PREREQUISITE: permission of instructor.

**4221. Theory of Numbers. (3).**

Divisibility properties of integers; prime numbers; congruences; diophantine equations; quadratic residues; number theoretic functions. PREREQUISITE: Mathematics 3111.

**4241. Linear Algebra. (3).**

Matrices, vector spaces, linear transformations, polynomials; determinants. PREREQUISITE: Mathematics 2322.



**4351. Real Variables. (3).**

Continuous functions; uniform continuity; differentiation; integration; improper integrals; sequences and series; power series; uniform convergence. PREREQUISITES: Mathematics 2322, 3111.

**4361. Complex Variables. (3).**

Complex numbers; point sets and mappings; analytic functions; integration. PREREQUISITE: Mathematics 2322.

**4391. Applied Mathematics. (3).**

Laplace transforms; Fourier series; partial differential equations. PREREQUISITE: Mathematics 3391.

**4392. Applied Mathematics. (3).**

Calculus of variations; difference equations; integral equations. PREREQUISITES: Mathematics 3241, 4391.

**4411. Topology. (3).**

Introductory set theory; metric spaces; topological spaces; mappings; Hausdorff spaces, connectedness and compactness. PREREQUISITE: Mathematics 2322, 3111.

**4721. Numerical Analysis. (3).**

Study of computer oriented methods for solution of polynomial and transcendental equations and ordinary differential equations; matrix calculations including inverses, determinants, eigenvalues, eigenvectors, etc.; numerical quadrature; polynomial interpolation; least squares curve fitting. PREREQUISITE: Mathematics 2321 and 3711.

STATISTICS

**2611. Elementary Statistics. (3).**  
(formerly Mathematics 2611).

Basic statistical concepts; elementary probability theory; normal curve and applications; linear, multiple, and partial correlation; statistical inference. PREREQUISITES: Mathematics 1211 or 1212, or Management 3710.

**3631. Introductory Probability. (3).**  
(formerly Mathematics 3631)

Permutations and combinations; probabilities for finite sample spaces; conditional probabilities; discrete and continuous random variables; moments and moment-generating functions. PREREQUISITE: Mathematics 2322.

**4611. Statistical Methods. (3).**

Intended for students in the engineering, physical, and mathematical sciences. Binomial, hypergeometric, Poisson, multinomial and Chi-square distributions; tests of randomness and non-parametric tests; t-tests; tests of hypotheses; correlation analysis. PREREQUISITE: Mathematics 2321.

**4613. Introductory Statistical Theory. (3).**

Distributions of functions of random variables; limiting distributions; correlation and regression; Neyman-Pearson Lemma; likelihood ratio tests; sufficient statistics; point estimations. PREREQUISITE: Statistics 3631.

**4631. Probability. (3).**

Stationary and non-stationary stochastic processes; Markov chains and applications; continuous time Markov chains; Poisson processes and

applications; Brownian notion; branching processes. PREREQUISITES: Statistics 3631, Mathematics 3241.

*(The following courses, offered in The Graduate School, are open to undergraduates within 36 semester hours of graduation. None of these courses carries graduate credit nor is applicable to any degree offered in The Graduate School).*

**5261. Algebraic Theory. (3).**

Theory of groups, rings and fields, with applications. PREREQUISITE: Mathematics 3111 or 7181.

**5511. Geometric Theory. (3).**

Foundations of geometry; extensions of Euclidean geometry; non-Euclidean geometry; introduction to projective geometry. PREREQUISITE: Mathematics 3111 or 7181.

*Graduate courses in Mathematics: For course descriptions and further details of the graduate program, see The Bulletin of The Graduate School.*

## MODERN LANGUAGES

PROFESSOR L. GRANT REESE, *Chairman*

*Room 230A, Jones Hall*

The Department of Modern Languages offers majors and minors in French, German, and Spanish; a minor is also offered in Russian. Requirements are listed on page 137. Details of the specific requirements in foreign languages for the various degrees offered by the University are explained on page 122.

### FRENCH

**IMPORTANT NOTE:** *All students enrolled in an elementary course in French (1101, 1102) must spend one hour each week in the language laboratory, for which no extra credit is granted. A student may, however, gain one hour credit if he registers for French Drill Class 1101 or 1102, which requires two scheduled hours each week with a foreign assistant.*

**1101. Elementary French. (3). (111)**

Elements of grammar and pronunciation, elementary conversation, and the reading of simple selections.

**1102. Elementary French. (3). (112)**

A continuation of French 1101, completing the study of elementary French grammar, elementary conversation and the reading of simple French texts such as *Le Petit Prince* by St. Exupéry.

**2201. Intermediate French. (3). (211)**

A review of French grammar with composition, conversation, and the reading of French short stories, designed to increase the student's vocabulary and to contribute to his mastery of idiomatic constructions.

**2202. Intermediate French. (3). (212)**

A continuation of French 2201, with greater emphasis on accuracy in oral and written expression and reading for comprehension.

**2203. French Conversation. (2).**

Oral practice on subjects of French civilization. Especially recommended for students registered in French 2201. Credit in this course will not apply toward a major or minor in modern languages nor will

it satisfy any part of the foreign language requirement for graduation. PREREQUISITE: French 1101 and 1102, or permission of the instructor.

**2204. French Conversation. (2).**

A continuation of French 2203; especially recommended for students registered in French 2202. Credit in this course will not apply toward a major or minor in modern languages, nor will it satisfy any part of the foreign language requirement for graduation. PREREQUISITE: French 1101 and 1102, or permission of the instructor.

**2251. French Drama Workshop. (1). (271)**

Students in this course will work through and produce scenes from well-known French plays, emphasizing good diction and sentence rhythm. PREREQUISITE: Permission of department chairman. *Credit in this course will not satisfy any part of the foreign language requirement for graduation.*

**3301. Advanced Conversation and Composition. (3). (321)**

**3302. Advanced Conversation and Composition. (3). (322)**

A continuation of French 3301.

**3411. Survey of French Literature.\* (3). (311)**

Introduction to the civilization of France through lectures and the readings of representative literary works and writers from the beginnings through the eighteenth century.

**3412. Survey of French Literature. (3). (312)**

A continuation of the study of French civilization through lectures and reading of representative works of the major writers in the nineteenth and twentieth centuries.

**3421. The Seventeenth Century. (3). (331)**

A study of the underlying principles of French Classicism in general and of the theatre in particular, with emphasis on works of Corneille, Molière, and Racine and their relationship to the critical theories of Boileau.

**3422. The Seventeenth Century. (3). (332)**

A study of the representative works in the classical genres, emphasizing the later masterpieces of Molière and Racine, and selected works of Mme. de La Fayette, La Fontaine, Mme. de Sévigné, La Bruyère, and La Rochefoucauld.

**4301. French Phonetics. (3).**

The theory and practice of French sounds; especially recommended for teachers of French. PREREQUISITE: Three years of college French or permission of the instructor.

**4305. French Stylistics. (3).**

Translations of English prose into French with an emphasis on style. PREREQUISITE: French 3302.

**4421. The Eighteenth Century. (3). (441)**

The novel from Lesage through the eighteenth century and the drama from Lesage through the theatre of Beaumarchais.

**4422. Liberal Ideas in the Eighteenth Century. (3). (442)**

Study of philosophical thought from the revocation of the Edict of

Nantes to the French Revolution, with attention given to Bayle, Montesquieu, Voltaire, Diderot, and Rousseau.

- 4431. The Modern French Novel. (3). (411)**  
The French novel from the Revolution to the twentieth century, treating the movements of Romanticism, Realism, and Naturalism as they are reflected in the works of such authors as Balzac, Stendhal, Flaubert, and Zola.
- 4432. The Contemporary French Novel. (3). (412)**  
A general survey of the twentieth-century French novel, treating the works of such authors as Proust, Gide, Mauriac, Malraux, Sartre, Camus, Maurois, and others.
- 4451. The Modern French Drama. (3). (421)**  
French drama from 1800 to 1870, including such authors as Hugo, de Vigny, de Musset, Scribe, Augier, and Dumas *filis*.
- 4452. The Contemporary French Drama. (3). (422)**  
From Bècque and his school, the *Théâtre Libre*, and Rostand to the present, with emphasis on the twentieth-century drama and such playwrights as Pagnol, Claudel, Tristan Bernard, Giraudoux, Anouilh, Montherlant, Camus, Sartre, Cocteau, and others.
- 4471. Nineteenth-Century Poetry. (3). (451)**  
French poetry from Chenier through the Parnassians and the Symbolists.

(The following courses, offered in The Graduate School, are open to undergraduates within 36 semester hours of graduation. None of these courses carries graduate credit nor is applicable to any degree offered in The Graduate School.)

- 5401. Old French. (3).**  
Introductory seminar. Historical grammar and study of the *Chanson de geste*; also the *Lais* of Marie de France and *Aucassin et Nicolette*.
- 5421. The French Renaissance. (3).**  
The new world—literary, as seen in the works of Ronsard and the Pléiade; philosophical and political, in those of Rabelais and Montaigne.
- 5481. Realism and Naturalism. (3).**  
The impact of positivism and scientific methods on French literature. Realism in Balzac, Flaubert, and Dumas *filis*; Naturalism in Zola, les Frères Goncourt, and the naturalistic theatre.

*Graduate Courses in French: For course descriptions and further details of the graduate program, see The Bulletin of The Graduate School.*

## GERMAN

**IMPORTANT NOTE:** All students enrolled in an elementary course in German (1101, 1102) must spend one hour each week in the language laboratory for which no extra credit is granted. A student may, however, gain one hour credit if he registers for German Drill Class 1101 or 1102 which requires two scheduled hours each week with a foreign assistant.

- 1101. Elementary German. (3). (111)**  
Extensive drill in pronunciation, elementary conversation, and aural understanding, and in translating the oral and written language.



1102. **Elementary German. (3).** (112)  
A continuation of German 1101 devoted to further extensive drill in fundamentals.
2201. **Intermediate German. (3).** (211)  
A comprehensive review of German grammar, with readings and exercises designed to increase the student's vocabulary, contribute to his mastery of idiomatic constructions, and introduce him to German literature.
2202. **Intermediate German. (3).** (212)  
A continuation of German 2201, with further reading in German literature designed to enlarge the student's vocabulary and improve his pronunciation.
2203. **Scientific German. (3).** (222)  
Readings in medical and scientific German. PREREQUISITE: German 2201.
2251. **German Drama Workshop. (1).** (271)  
Students in this course will work through and produce scenes from well-known German plays, emphasizing good diction and sentence rhythm. PREREQUISITE: Permission of department chairman. *Credit in this course will not satisfy any part of the foreign language requirement for graduation.*
3301. **Advanced Conversation and Composition. (3).** (331)
3302. **Advanced Conversation and Composition. (3).** (332)  
A continuation of German 3301.
3411. **Survey of German Literature. (3).** (311)  
A survey of German literature from the beginnings to Goethe.
3412. **Survey of German Literature. (3)** (312)  
A continuation of German 3411, from Goethe to the modern period.
3451. **Nineteenth-Century Drama. (3).** (355)  
Selected plays of Kleist, Grillparzer, and Hebbel.
3461. **Nineteenth-Century Prose. (3).** (353)  
The shorter works of Tieck, Arnim, Kleist, Eichendorff, Meyer, and others.
3471. **Nineteenth-Century Poetry. (3).** (354)  
Poetic works of Heine, Uhland, and others.
4421. **Mysticism and the Baroque Period. (3).**  
Studies in the writings of the great German mystics, emphasizing their influence on the poetics of the Baroque period.
4441. **The Age of Enlightenment. (3).**  
Readings in Lessing, Wieland, the early Goethe, the early Schiller, and others, with lectures on the philosophical, political, and social backgrounds. PREREQUISITE: German 3412 or permission of the instructor.
4461. **Contemporary Prose and Poetry. (3).** (451)  
Analysis and discussion of the short stories of Hauptmann, Mann, Schnitzler, Kafka, and others; and the lyrics of Hofmannsthal, Rilke, George, Benn, and others.

- 4462. Contemporary Drama.** (3). (452)  
Analysis and discussion of plays by Hauptmann, Toller, Kaiser, Paul Ernst, and others.
- 4481. The Classical Period.** (3). (411)  
Selected plays by Schiller, with lectures on the historical, literary, and philosophical backgrounds.
- 4482. The Classical Period.** (3). (412)  
The major plays and certain prose works of the young Goethe read and discussed in the light of the age and of the author's development.

*(The following courses, offered in The Graduate School, are open to undergraduates within 36 semester hours of graduation. None of these courses carries graduate credit nor is applicable to any degree in The Graduate School.)*

- 5303. History of the German Language.** (3).  
The development from Primitive Germanic to New High German.
- 5401. Old High German.** (3).  
A specialized study of Old High German grammar and representative extant documents augmented by a comparative study of Older Germanic language, history, and literature.
- 5481. The Age of Realism.** (3).  
German literature and thought from 1830 through 1880. Lectures with extensive readings.
- 5482. Naturalism, Impressionism, and Expressionism.** (3).  
Literature and philosophical movements from 1880 through 1930. Lectures with extensive readings.

*Graduate courses in German: For course descriptions and further details of the graduate program, see The Bulletin of The Graduate School.*

#### HEBREW

**IMPORTANT NOTE:** *Courses in Hebrew are offered for elective credit only and will not satisfy any part of the foreign language requirement for the baccalaureate degree. Credit will be allowed for a single semester.*

- 1101. Elementary Hebrew.** (3). (111)  
An introduction to the Semitic family of languages through Hebrew; the Hebrew alphabet, synthetic morphology in word structure, simple syntax, introduction to composition, reading and writing in Hebrew script.
- 1102. Elementary Hebrew.** (3). (112)  
Conjugation of simple verbs, the active and passive voices, introductory conversation, composition, and the Hebrew short story.
- 2201. Advanced Hebrew Composition.** (3). (211)  
Reading of Modern Israeli poetry and the Hebrew novel. Selected readings from the wisdom literature of the Bible: The Book of Proverbs, the Book of Job, the Book of Ecclesiastes. Readings from the Israeli daily press. Conversational Hebrew. **PREREQUISITE:** Hebrew 1102 or its equivalent.
- 2202. Advanced Hebrew Composition.** (3). (212)  
Further readings in a survey of Biblical and post-Biblical Hebrew literature. Readings from the prophets: Isaiah, Jeremiah, Ezekiel.

Advanced conversational Hebrew. Israelology. Study of the ancient and modern customs and mores of the inhabitants of the land of Israel. The Hebrew Calendar. PREREQUISITE: Hebrew 2201 or its equivalent.

ITALIAN

*IMPORTANT NOTE: All students enrolled in an elementary course in Italian (1101, 1102) must spend one hour each week in the language laboratory, for which no extra credit is granted. A student may however, gain one hour credit if he registers for Italian Drill Class 1101 or 1102 which requires two scheduled hours each week with a foreign assistant.*

**1101. Elementary Italian. (3). (111)**

Elements of grammar and pronunciation, elementary conversation, and the reading of simple selections.

**1102. Elementary Italian. (3). (112)**

A continuation of Italian 1101, completing the study of elementary Italian grammar, elementary conversation, and the reading of simple texts.

**2201. Intermediate Italian. (3).**

A comprehensive review of Italian grammar with readings, including Italian magazines and newspapers, with exercises designed to increase the student's vocabulary, contribute to his master of idiomatic constructions and introduce him to Italian literature.

**2202. Intermediate Italian. (3).**

A continuation of Italian 2201, with further reading in Italian literature designed to enlarge the student's vocabulary and improve his pronunciation.

**3411. Survey of Italian Literature. (3).**

The development of the Florentine dialect as the literary language of Italy. The study of representative writers from the thirteenth to the eighteenth century. Dante. PREREQUISITE: Italian 2202 or permission of the instructor.

**3412. Survey of Italian Literature. (3).**

A study of outstanding writers of the eighteenth, nineteenth, and twentieth centuries, with special attention to Goldoni, Alfieri, Leopardi, Manzoni, Pirandello, and Benedetto Croce. PREREQUISITE: Italian 3411 or permission of the instructor.

PORTUGUESE

*IMPORTANT NOTE: All students enrolled in an elementary course in Portuguese (1101, 1102) must spend one hour each week in the language laboratory, for which no extra credit is granted. A student may, however, gain one hour credit if he registers for Portuguese Drill Class 1101 or 1102 which requires two scheduled hours each week with a foreign assistant.*

**1101. Elementary Portuguese. (3).**

Elements of grammar and pronunciation, elementary conversation, and the reading of simple selections.

**1102. Elementary Portuguese. (3).**

A continuation of Portuguese 1101, with reading selections of increasing difficulty.

## RUSSIAN

*IMPORTANT NOTE: All students enrolled in an elementary course in Russian (1101, 1102) must spend one hour each week in the language laboratory, for which no extra credit is granted. A student may, however, gain one hour credit if he registers for Russian Drill Class 1101 or 1102, which requires two scheduled hours each week with a foreign assistant.*

- 1101. Elementary Russian. (3). (111)**  
Extensive drill in the principles of grammar with practice in pronunciation, elementary conversation and aural understanding, and translation.
- 1102. Elementary Russian. (3). (112)**  
A continuation of Russian 1101, devoted to further extensive drill in the fundamentals.
- 2201. Intermediate Russian. (3). (211)**  
A comprehensive review of Russian grammar, with readings and exercises designed to increase the student's vocabulary, contribute to his mastery of idiomatic constructions, and introduce him to Russian literature.
- 2202. Intermediate Russian. (3). (212)**  
A continuation of Russian 2201, with further reading in Russian literature designed to enlarge the student's vocabulary and improve his pronunciation.
- 3411. Survey of Russian Literature. (3).**  
Survey of Russian literature from the earliest chronicles, folktales, and legends through the classical period to the end of the eighteenth century.
- 3412. Survey of Russian Literature. (3).**  
Survey of Russian literature from the beginning of the nineteenth century to the Soviet period. Authors include Pushkin, Gogol, Lermontov, Turgenev, Dostoevski, Tolstoi, and Chekhov.
- 3441. Russian Literature of the Nineteenth Century. (3).**  
An introduction to the authors and work which herald the Golden Age of Russian Literature, with representative works from Pushkin, Lermontov, Gogol, and Turgenev.
- 3442. Russian Literature of the Nineteenth Century. (3).**  
Readings in representative works of Dostoevski, Tolstoi, Chekov, and Gorki.

## SPANISH

*IMPORTANT NOTE: All students enrolled in an elementary course in Spanish (1101, 1102) must spend one hour each week in the language laboratory, for which no extra credit is granted. A student may, however, gain one hour credit if he registers for Spanish Drill Class 1101 or 1102, which requires two scheduled hours each week with a foreign assistant.*

- 1101. Elementary Spanish. (3). (111)**  
Intensive drill in the principles of grammar, with exercises in pronunciation, elementary conversation and aural understanding, and translation of the oral, and written language.
- 1102. Elementary Spanish (3). (112)**  
A continuation of Spanish 1101, with further intensive drill in the fundamentals.



- 2201. Intermediate Spanish. (3). (211)**  
A comprehensive review of Spanish grammar, with readings and exercises designed to increase the student's vocabulary, contribute to his mastery of idiomatic constructions, and introduce him to Hispanic literature.
- 2202. Intermediate Spanish. (3). (212)**  
A continuation of Spanish 2201, with further reading in Hispanic literature designed to enlarge the student's vocabulary and improve his pronunciation.
- 2351. Spanish Drama Workshop. (1). (271)**  
A student in this course will work through and produce scenes from well-known Spanish plays, emphasizing good diction and sentence rhythm. **PREREQUISITE:** Permission of department chairman. *Credit in this course will not satisfy any part of the foreign language requirement for graduation.*
- 3301. Advanced Conversation and Composition. (3). (321)**
- 3302. Advanced Conversation and Composition. (3). (322)**  
A continuation of Spanish 3301.
- 3411. Survey of Spanish Literature. (3). (311)**  
Formation of the Spanish language and literature, with readings of representative works to illustrate principal periods and genres from the beginnings to 1700.
- 3412. Survey of Spanish Literature. (3). (312)**  
A continuation of Spanish 3411, covering Neoclassicism, Romanticism, *costumbrismo*, Realism, Naturalism, contemporary literature, and present trends.
- 3511. Survey of Spanish-American Literature. (3). (341)**  
A survey of Spanish-American literature from the Colonial Period to the end of the period of Romanticism.
- 3512. Survey of Spanish-American Literature. (3). (342)**  
A survey of Spanish-American literature from the beginnings of Modernism to the present.
- 3611. Survey of Spanish Civilization. (3).**  
Spain and its people; Spanish history from Roman times to the twentieth century; highlights of Spanish civilization as revealed in the fields of literature, music, painting, and architecture.
- 3612. Survey of Latin-American Civilization. (3).**  
The culture of Latin America, including Brazil and Haiti, as reflected in its history, archaeology, literature, art, and music. The period covered is from the time of Columbus to the present.
- 4301. Spanish Phonetics. (3).**  
Theory and practice of Spanish sounds; especially recommended for teachers of Spanish. **PREREQUISITE:** completion of third-year level of college Spanish or permission of the instructor.
- 4421. The Golden Age. (3). (415)**  
A detailed study of Spanish lyric poetry and drama up to 1700. **PREREQUISITES:** Spanish 3411 and 3412, or permission of the instructor.

- 4422. The Golden Age. (3). (416)**  
A detailed study of Spanish prose up to 1700. PREREQUISITES: Spanish 3411 and 3412, or permission of the instructor.
- 4431. Contemporary Spanish Prose. (3). (412)**  
A study of the prose of the Generation of 1898 and after. Outstanding writers in the fields of philosophy, the essay, the novel, and short story from Angel Ganivet to Camilo José Cela and Ana Maria Matute. PREREQUISITES: Spanish 3411 and 3412, or permission of the instructor.
- 4432. Contemporary Spanish Poetry and Drama. (3). (413)**  
A study of Spanish poetry and drama from the Generation of 1898 to the present. Among the authors studied are Antonio Machado, Juan Ramon Jiménez, Eduardo Marquina, J. Benevente, Alejandro Casona and F. García Lorca. PREREQUISITES: Spanish 3411 and 3412, or permission of the instructor.
- 4561. Spanish-American Short Story. (3). (422)**  
A critical analysis of Spanish-American short stories as they reflect predominant social and ethical problems, and the authors' responses to literary influences from Europe and North America.
- 4562. Spanish-American Novel. (3). (423)**  
A critical study of representative works by such novelists as Fernandez de Lizardi, Blest Gana, Isaacs, and Güiraldes.
- 4591. Spanish-American Drama, Poetry and Essay. (3). (421)**  
A critical study of the development of the drama and poetry of Spanish-America in comparison with and in contrast to the drama and poetry of Spain, and a study of the Spanish-American essay in its political and sociological as well as its literary aspects.

*(The following courses, offered in The Graduate School, are open to undergraduates within 36 semester hours of graduation. None of these courses carries graduate credit nor is applicable to any degree offered in The Graduate School.)*

- 5401. Old Spanish Language. (3).**  
Castilian phonology, morphology, syntax, and vocabulary, following upon an introduction to the general characteristics of Ibero-Romance and medieval Spanish dialects.
- 5402. Old Spanish Literature. (3).**  
Linguistic and literary study of medieval Spanish texts.
- 5421. The Picaresque Novel. (3).**
- 5431. Nineteenth-Century Spanish Literature I. (3).**  
Romantic and post-Romantic poetry and drama.

*Graduate courses in Spanish: For course descriptions and further details of the graduate program, see The Bulletin of The Graduate School.*

## MUSIC

PROFESSOR ROBERT SNYDER, *Chairman*  
*Room 123B, Music Building*

Requirements for the major and minor in music are listed on page 138; the program for the Bachelor of Music degree is outlined on page 130. Requirements for the major and minor in music education are listed on page 165.

**PIANO PROFICIENCY.** *All music majors in all degree programs must demonstrate proficiency in piano. This may be done in either of two ways: (1) by acquiring four semester hours of credit in piano in either class or individual instruction, or (2) by passing without credit a proficiency examination in piano based on the level of study described in Music Education 1614—Class Instruction in Piano. Copies of the requirements for the piano proficiency examination are available upon request in the Music Office. Students choosing to meet the requirement through an examination should do so during registration or during the final examination period of the first semester in residence.*

### I. THEORY AND COMPOSITION

#### 1041. Introduction to Music. (4). (110)

A bilateral approach to music through (1) a general study of the history of music with emphasis on cultural backgrounds and (2) training in the aural and visual aspects of scales, intervals, and rhythmic patterns.

*Three lecture, two laboratory hours per week.*

**IMPORTANT NOTE:** *Students registering for any of the following four theory courses must schedule both sections; together these sections constitute a correlated study of the rudiments of music, including harmony, counterpoint, homophonic forms, sight-singing, and ear-training.*

#### 1012. Aural Music Theory I. (1). (111B)

Sight-singing and ear-training using the unison material studied in Music 1032; keyboard harmony. **COREQUISITE:** Music 1032.

*Two laboratory hours per week.*

#### 1013. Aural Music Theory I. (1). (112B)

Traditional harmony including major and minor scales and triads in all positions in four-part writing. **PREREQUISITES:** Music 1041 and Music Education 1611, or equivalent ability.

#### 1032. Music Theory I. (3). (111A)

Continuation of Music 1012 with more difficult unison and easier two-, three-, and four-part material correlated with Music 1033. **COREQUISITE:** Music 1033.

*Two laboratory hours per week.*

#### 1033. Music Theory I. (3). (112A)

Continuation of Music 1032 up to and including the dominant seventh chord; non-chordal tones; two-part counterpoint; harmonic analysis.

#### 2014. Aural Music Theory II. (1). (211B)

Continuation of Music 1013 with classwork correlated with Music 2034. **COREQUISITE:** Music 2034.

*Two laboratory hours per week.*

#### 2015. Aural Music Theory II. (1). (212B)

Continuation of Music 2014 with classwork correlated with Music 2035. **COREQUISITE:** Music 2035.

#### 2034. Music Theory II. (3). (211A)

Continuation of Music 1033 with attention to secondary seventh chords; modulation to related keys; instrumental style.

#### 2035. Music Theory II. (3). (212A)

Continuation of Music 2034 with introduction of altered and highly dissonant chord material; advanced modulation.

- 2231. Music for Recreation. (3).**  
The rudiments of music, conducting, song leadership, materials and methods, designed for recreation majors.
- 3021. Canon and Fugue. (2). (302)**  
A study of contrapuntal techniques and the fundamentals of canonic writing; invention, chorale elaboration, two-part canon; analysis of works in contrapuntal style of the eighteenth century. PREREQUISITE: Music 3031.
- 3022. Canon and Fugue. (2). (303)**  
Multiple voiced canons; study and writing of the fugue as a form and a style in various media; analysis of contrapuntal literature. PREREQUISITE: Music 3021.
- 3023. Composition. (2). (305)**  
Free composition in the smaller forms for piano, voice, and chorus; a study of style and analysis of master works. PREREQUISITE: instructor's permission.
- 3024. Composition. (2). (306)**  
Free composition in the smaller forms and sonatina form for piano, voice, chorus, and small ensembles; style and analysis. PREREQUISITE: Music 3023 and permission of the instructor.
- 3031. Counterpoint. (3). (301)**  
A study of the modal contrapuntal technique of the sixteenth century; writing in two and three parts in the style of Palestrina and Lassus; analysis. PREREQUISITES: Music 1013 and 1033.
- 3033. Form and Analysis. (3). (308)**  
A study of the basic principles underlying the formal structure of music; analyses of outstanding examples of the suite, sonata, and symphony. PREREQUISITES: Music 1013 and 1033.
- 3035. Instrumentation. (3). (315)**  
A study of the compass, possibilities, and tonal characteristics of orchestral and band instruments; arranging of various types of compositions for string, woodwind, and brass ensembles; arranging of piano, organ, and choral compositions for full orchestra; transcriptions of selected works for band. PREREQUISITES: Music 1013 and 1033.
- 4021. Composition II. (2). (405)**  
Determination of individual style through practical application of contemporary compositional techniques; free composition in the larger forms; analysis of important contemporary compositions. PREREQUISITES: Music 3024 and permission of the instructor.
- 4022. Composition II. (2). (406)**  
Free composition in all forms in various media; contemporary adaptations of older forms, calligraphy and preparation of manuscripts; analysis of contemporary works. PREREQUISITE: Music 4021 and permission of the instructor.
- 4031. Seminar: Music Theory and Analysis. (3).**  
An advanced course in theory, counterpoint, and analysis of literature. Contrapuntal and harmonic techniques. Research. Theoretical problems from a pedagogical point of view. Writing in strict and free styles. PREREQUISITES: Music 3031 and 3033.



## II. HISTORY, LITERATURE, AND APPRECIATION

- 1131. Music Appreciation. (3). (319)**  
An introduction to music through a study of its literature and history; significant compositions are oriented to their proper social, cultural, economic, and political settings in order to bring about the most effective understanding and enjoyment of the music. Open without prerequisite to non-music majors.
- 3131. History of Music to 1600. (3). (401)**  
A study of the development of the significant musical styles with special attention to the individual contributions of the major composers. PREREQUISITE: permission of the instructor.
- 3132. History of Music Since 1600. (3). (402)**  
A continuation of Music 3131. PREREQUISITE: permission of the instructor.
- 4100. Study and Travel in Music. (3 or 6). (407)**  
Specialized study and travel under the direction of a faculty member of the Department of Music; a tour of the larger cities of Europe provides for attendance at concerts, visits to museums and other places of cultural importance.
- 4131. Comparative Arts. (3). (411)**  
Cultural activities in their interrelation with each other and with corresponding historic and economic events. Open without prerequisite to non-music majors of junior and senior standing.
- 4132. Modern Music. (3) (412)**  
Contemporary music and composers from Debussy to the present time, including the works of Stravinsky, Bartok, Hindemith, Schoenberg, and American contemporaries. Open without prerequisite to non-music majors of junior and senior standing.
- 4133. The Opera and the Music Drama. (3). (413)**  
A survey of the opera before Richard Wagner; study of Wagner's music dramas and operas of his contemporaries; dramatic and musical significance of each phase of the development of the two forms. Open without prerequisite to non-music majors of junior and senior standing.
- 4134. Piano History, Literature, and Pedagogy. (3). (414)**  
A study of keyboard literature from an historical and pedagogical point of view; emphasis on style and the development of keyboard technique from the time of the harpsichord composers to the present, with practical applications to piano teaching. Open to music and non-music majors with some keyboard facility and to piano teachers.
- 4135. Sacred Music I. (3). (418)**  
Music in the history of the Protestant church; hymnology and the performance of hymns; church choir organization; planning the service; organ and choral repertory. Open without prerequisite to non-music majors of junior or senior standing.
- 4136. Sacred Music II. (3). (419)**  
The development and present significance of Roman, Lutheran, and Anglican liturgical music; its relationship to the worship services of non-liturgical denominations. Open without prerequisite to non-music majors of junior or senior standing.

## III. CONDUCTING

- 3235. Choral Conducting. (3). (316)**  
 Fundamentals of conducting; organizing and developing choral groups at all levels; rehearsal procedures; materials. **PREREQUISITE:** Music 1013 and 1033.
- 3236. Conducting and Score Reading. (3). (317)**  
 Conducting in both choral and instrumental fields; individual practice with the opportunity for each student to conduct choral and instrumental groups. **PREREQUISITE:** Music 3235.

## IV. APPLIED MUSIC (INDIVIDUAL LESSONS)

Applied music is offered at three levels: (1) preparatory, (2) lower division, and (3) upper division. Lessons are given by members of the University faculty and by special instructors. Practice facilities are provided without charge, but there are additional fees for the individual lessons.

**FEES:** The fee for all private lessons in brasses, composition, organ, percussion, piano, strings, woodwinds, and voice is \$50.00 per half-hour lesson per semester. Those students who are majoring in music (those currently registered for music theory) will pay only one \$50.00 fee per semester.

**REGISTRATION:** Students will register for individual lessons in the same manner and at the same time as they register for other courses. Any inquiries concerning credits or course numbers should be directed to the chairman of the Department of Music.

**CREDITS AND GRADES:** One semester hour credit will be granted for one thirty-minute lesson weekly; two semester hours credit will be granted for two thirty-minute lessons weekly. Practice hours will be assigned by the instructor to meet the needs of the student. Grades are awarded on the same basis and have the same significance as in other subjects.

**EXAMINATIONS:** For an examination in applied music, each student will prepare and perform for members of the faculty of the Department of Music suitable musical selections and technical exercises of a grade of difficulty appropriate to his standing. Examinations are held in designated rooms on days set aside for this purpose near the end of each semester. Credit for the course will not be awarded to any student who fails to take the examination.

## PREPARATORY COURSES

Regardless of his initial degree of advancement, any student of the University may register for individual lessons at the preparatory level except in organ; organ students must have the ability to play the piano before beginning organ instruction.

- 0310. Brasses. (1).**
- 0320. Brasses. (2).**
- 0410. Organ. (1).**
- 0420. Organ. (2).**
- 0510. Percussion. (1).**
- 0520. Percussion. (2).**
- 0610. Piano. (1).**
- 0620. Piano. (2).**
- 0710. Strings. (1).**
- 0720. Strings. (2).**
- 0810. Voice. (1).**
- 0820. Voice. (2).**
- 0910. Woodwinds. (1).**
- 0920. Woodwinds. (2).**

## LOWER-DIVISION COURSES

Applied music courses in the lower division include the study normally carried out during the freshman and sophomore years. The piano or instrumental student at this level should have had several years of intensive study prior to University entrance so that he has a secure, reliable, and well-grounded technique on his instrument. Organ students may begin at this

level provided that they play the piano well and have reasonable ability in sight reading. Requirements for admission to voice study at this level can best be determined by the instructor for the individual student.

Students who fall short of the requirements for admission to the lower-division courses will be advised to register for preparatory courses until deficiencies are eliminated. Course numbers will be repeated for each semester of study.

- 1310. Brasses. (1).
- 1320. Brasses. (2).
- 1410. Organ. (1).
- 1420. Organ. (2).
- 1510. Percussion. (1).
- 1520. Percussion. (2).
- 1610. Piano. (1).
- 1620. Piano. (2).
- 1710. Strings. (1).
- 1720. Strings. (2).
- 1810. Voice. (1).
- 1820. Voice. (2).
- 1910. Woodwinds. (1).
- 1920. Woodwinds. (2).

#### UPPER-DIVISION COURSES

Promotion to the upper division does not follow automatically after the completion of four semesters of courses in the lower division but is made only on the recommendation of the upper division examining committee; such a recommendation will be made only if the student's proficiency as a performer bears promise of future artistic and professional qualities as a soloist. It is at this level that the student normally begins preparation for a recital.

- 3310. Brasses. (1).
- 3320. Brasses. (2).
- 3410. Organ. (1).
- 3420. Organ. (2).
- 3510. Percussion. (1).
- 3520. Percussion. (2).
- 3610. Piano. (1).
- 3620. Piano. (2).
- 3710. Strings. (1).
- 3720. Strings. (2).
- 3810. Voice. (1).
- 3820. Voice. (2).
- 3910. Woodwinds. (1).
- 3920. Woodwinds. (2).

#### V. SMALL ENSEMBLES AND CHAMBER MUSIC

Advanced students are encouraged (and for certain degree plans are required) to participate in these groups. Selection for membership is based on an audition; courses may be repeated with the approval of the student's adviser. Three one-hour meetings per week.

- |                                 |       |
|---------------------------------|-------|
| 3381. Brass Ensemble. (1).      | (366) |
| 3382. Stage Band. (1).          | (365) |
| 3581. Percussion Ensemble. (1). | (363) |
| 3681. Piano Ensemble. (1).      | (360) |

3781. String Ensemble. (1).	(362)
3881. Madrigal Group. (1).	(369)
3882. Opera Workshop. (1).	(368)
3883. Opera Soloists. (1).	(367)
3983. Woodwind Ensemble. (1).	(364)

## VI. LARGE MUSICAL ORGANIZATIONS

Each music major is required to participate in one of the following major musical organizations during each semester as a full-time resident student: the University Band, the University Orchestra, the University Chorale, and the University Glee Club; he must obtain permission of the department chairman to receive ensemble participation credit for other musical organizations. Selection for membership is based on an audition; courses may be repeated with the approval of the student's adviser. Three one-hour meetings per week.

1391. Music Education Band.	(174)
1392. University Band. (1).	(175)
1791. Music Education Orchestra.	(172)
1891. Men's Glee Club. (1).	(178)
1892. Women's Glee Club. (1).	(179)
1893. University Glee Club. (1).	(177)
3391. University Band. (1).	(375)
3791. University Orchestra. (1).	(373)
3891. University Chorale. (1).	(377)

*Graduate courses in Music: For course descriptions and further details of the graduate program, see The Bulletin of The Graduate School.*

## DIVISION OF MUSIC EDUCATION

PROFESSOR GEORGE JONES HARRIS, *Director*  
Room 279, Music Building

Requirements for the major and minor in music education are listed on page 165.

*See page 273 for statement concerning piano proficiency.*

**FIELD OF ENDORSEMENT FOR TEACHING.** *Endorsement may be obtained in either School Music or in Instrumental Music. Normally a student can expect to be recommended in only one of these areas. School Music applicants should be able to play piano accompaniments of average difficulty, should possess an adequate solo voice for school music purposes, and should schedule courses in a wide variety of choral activities. Instrumental Music applicants may satisfactorily meet piano and voice requirements with completion of Music Education 1614 and Music Education 1812, with their prerequisites. Study in one instrument of major emphasis, and participation in concert and marching bands, orchestra and a variety of smaller ensembles will also be required.*

*(The following courses, Music Education 1311 through 1912, are designed to teach the music education major, already a competent performer in one field, the playing techniques of the major instruments of band and orchestra and the methods of instructing others in these techniques. Practice facilities are provided and there are no additional fees. Each class meets two hours per week.)*



1311. **Class Instruction in Brass Instruments.** (1). (136)  
 1312. **Class Instruction in Brass Instruments.** (1). (137)  
 1511. **Class Instruction in Percussion Instruments.** (1). (126)  
 1512. **Class Instruction in Percussion Instruments.** (1). (127)  
 1611. **Class Instruction in Piano.** (1). (128)  
     Basic technique, with emphasis on sight-reading.  
 1612. **Class Instruction in Piano.** (1). (129)  
     Playing of songs used in school music teaching; community songs and hymns; exercises written in music theory classes.  
 1613. **Class Instruction in Piano.** (1). (130)  
     Simpler Bach chorales, more difficult songs, and accompaniments appropriate to the student's major field; memorization optional.  
 1614. **Class Instruction in Piano.** (1). (131)  
     Selected easier studies and compositions by Czerny, Concone, Beethoven, Chopin, Schumann, Bartok, and others.  
 1711. **Class Instruction in Stringed Instruments.** (1). (132)  
 1712. **Class Instruction in Stringed Instruments.** (1). (133)  
 1811. **Class Instruction in Voice.** (1). (139)  
 1812. **Class Instruction in Voice.** (1). (140)  
 1911. **Class Instruction in Woodwind Instruments.** (1). (134)  
 1912. **Class Instruction in Woodwind Instruments.** (1). (135)

*(The two following courses, Music Education 1391 and 1791, provide familiarity with materials and routines suitable for use with school orchestras and bands; they enable a student who plays his major instrument in the University orchestra or band to gain needed playing experience on other instruments and also enable voice, piano, and organ majors to gain ensemble experience. Either course may be repeated for additional credit, or students may participate without credit. Each course meets three hours per week.)*

1391. **Music Education Band.** (1). (174)  
 1791. **Music Education Orchestra.** (1). (172)  
 3231. **Music for Children.** (3). (123)  
     A consideration of appropriate musical experiences for children in the school, church, and home. Philosophy, aims, materials, methods, music appreciation as related to a study of instruments of the orchestra and to representative composers of the period 1650-1825. A functional use of music is approached through practice in the electronic piano laboratory and with easy-to-play instruments. Major scales and key signatures; sight-singing with syllables and numbers; rhythm and meter studies. No prior training in music is required. Not open to music majors and minors.  
 3232. **Music for Children.** (3). (124)  
     A continuation of Music Education 3231; minor scales, primary chords, musical styles and composers since 1825. **PREREQUISITE:** Music Education 3231.  
 3233. **Teaching for Appreciation in Grades 1 through 9.** (3). (325)  
     The listening experience and other related music activities as an ap-

proach to the appreciation of music. PREREQUISITE: permission of the instructor.

- 4201. Special Problems in the Teaching of Music. (1 to 3). (421)**  
This course provides for class or individual study of the problems and opportunities faced by the person who teaches music in the schools; for classroom teachers, music teachers and supervisors, principals, and administrators.
- 4231. Music Supervision in Grades 1 through 9. (3). (321)**  
The teaching, supervision, and administration of music; basic concepts, philosophy, and objectives of music education.
- 4232. Materials and Methods in Instrumental Music. (3). (331)**  
Developing the band or orchestra; balance and tone quality; conducting and interpretation; problems of intonation; literature for solos, ensembles, and groups of all grades.

## NURSING

ASSOCIATE PROFESSOR PEGGY NORMAN, *Chairman*  
*Room 303, Clement Hall*

Requirements for the Associate Degree in Nursing are listed on page 186.

- 1001. Fundamentals of Nursing I. (3).**  
A foundation for other nursing courses. Historical development and philosophy of nursing; concepts of basic human needs and inter-personal relationships.  
*Two lecture, three laboratory hours per week.*
- 1002. Fundamentals of Nursing II. (5).**  
Continuation of Fundamentals of Nursing I. Emphasis is on specific nursing problems and the physiological and psychological aspects of illness. Nursing intervention is developed through classroom and laboratory experience. PREREQUISITE: Nursing 1001.  
*Three lecture, six laboratory hours per week.*
- 1102. Medical-Surgical Nursing. (10).**  
Nursing principles basic to care of patients with medical-surgical conditions. Approach is through patient-centered common problems. Laboratory experience is designed for depth and scope in formulating, implementing and evaluating nursing care. PREREQUISITE: Nursing 1001, 1002.  
*Six lecture, twelve laboratory hours per week.*
- 2001. Psychiatric Nursing. (10).**  
Principles of personality development and emotional health. Emphasis is on further development of nurse-patient relationships and basic needs of all patients. In laboratory experience, these principles are applied in patient care. PREREQUISITE: Nursing 1102.
- 2102. Maternal-Child Nursing I and II. (5-5).**  
Classroom and correlated laboratory provide instruction in the maternal-child cycle from neo-natal through adolescent stages. Emphasis is on relationships in the family unit and physical, emotional, and social development of the child. PREREQUISITE: Nursing 2001.  
*Three lecture, six laboratory hours per week.*

# OFFICE MANAGEMENT

(See SECRETARIAL SCIENCE AND OFFICE MANAGEMENT)

## PHILOSOPHY

PROFESSOR WILLIAM BRYAN BARTON, JR., *Chairman*

*Room 319, Clement Hall*

*Philosophy Honors Program.* This program is reserved for those students who have a grade-point average of 3.0 or better. The student will be expected to prepare himself through course work and reading for a comprehensive examination to be given during the spring semester of his senior year. He will also be expected to do a senior essay in which he will demonstrate independent work. The essay will be 30 or more pages. The subject must be approved before the semester in which he intends to graduate.

Those students majoring in philosophy must choose their program for the first year from the following: Philosophy 1111, 1221, or 1611. They will be advised to take two of the above, one for each term rather than two at the same time. See page 139 for requirements for the major and minor in philosophy.

**1111. Introduction to Philosophy. (3). (111)**

An introduction to philosophy through the great problems arising from man's reflection on the knowledge and nature of the world and human conduct in it. A study is made of some of the great books in philosophy where these problems are discussed.

**1221. The Philosophy of Plato. (3).**

Readings will be from Plato's dialogues. This constitutes an introduction to Western philosophy through a study of one of the great figures, Socrates, and his disciple, Plato. Plato's ethical and political views, his theory of ideas, theory of knowledge and art will be discussed.

**1611. Elementary Logic. (3). (112)**

An introduction to the principles of valid reasoning with emphasis on the nature of language, the fundamentals of deductive and inductive inference, and the use of logic as a practical human instrument.

**2211. History of Ancient and Medieval Philosophy. (3). (311)**

Important systems of thought of ancient and medieval philosophy, with selected readings from the great philosophers.

**2311. History of Modern Philosophy. (3). (312)**

An introduction to the great philosophers since the Renaissance, with special emphasis on Descartes, Spinoza, Hume, Kant, Hegel, Fichte and the great political and social philosophers of the nineteenth century.

**2411. The Conflict of Ideals in Contemporary Civilization. (3). (221)**

The philosophical implications of important current issues, with attention to the philosophical presuppositions of the cultural, intellectual, political, and economic conflicts of the modern world. Readings from contemporary authors.

**2511. Introduction to Ethical Thought. (3). (222)**

An elementary course in ethics with emphasis on a critical analysis of the principle ethical theories and their practical application to the problems of the individual and society. Readings from the great classics in the field.

**2551. Political Philosophy. (3).**

The relation of the state to the individual as a problem in philosophical theory; the moral and metaphysical basis of politics.

**2622. Intermediate Logic. (3).**

Symbolic logic, including the propositional calculus, the lower functional calculus, and related topics. PREREQUISITE: Philosophy 1611 or permission of the instructor.

**3232. The Philosophy of Aristotle. (3).**

This course constitutes an introduction to the thought of Aristotle and its problems. The reading will be from the *Categories*, *Physics*, *Metaphysics*, *De Anima*, and the *Nicomachean Ethics*. PREREQUISITE: Philosophy 1221 or 2211.

**3341. Continental Rationalism. (3).**

Continental philosophy in the seventeenth century: Descartes, Spinoza, Malebranche, Leibniz, and Wolff. PREREQUISITE: one semester of philosophy or permission of the instructor.

**3351. British Empiricism. (3).**

A critical and historical review of the philosophies of Locke, Berkeley, and Hume. Special attention will be given to the place of British Empiricism in modern thought. PREREQUISITE: one semester of philosophy, or permission of the instructor.

**3371. The Philosophy of Kant. (3).**

An intensive study of the major philosophical works of Immanuel Kant, with special attention given to *The Critique of Pure Reason* and to the relation between Kant's critical philosophy and his ethics, aesthetics, and philosophy of religion. PREREQUISITE: Philosophy 2311 or permission of the instructor.

**3421. The Rise of Analytic Philosophy. (3).**

The development of the views of analytic philosophers from Russell and Wittgenstein to Ayer, Wisdom and others. PREREQUISITE: one semester of philosophy, or permission of the instructor.

**3451. The Rise of Existentialism. (3).**

An historical and comparative study of the different existentialist writers and their relation to literature, religion and psychology. Readings from Kierkegaard, Nietzsche, Jaspers, Heidegger, Sartre, and Marcel. PREREQUISITE: one semester of philosophy, or permission of the instructor.

**3521. Contemporary Ethical Theory. (3). (322)**

This will be a study of the works of the outstanding contemporary philosophers, such as Moore, Dewey, Stevenson, and Toulmin. PREREQUISITE: one semester of philosophy, or permission of the instructor.

**3661. The Development of Scientific Thought. (3).**

An historical introduction to science and scientific thinking, with selected readings from both ancient and modern scientists and philosophers of science. PREREQUISITE: one course in philosophy or a major in the natural or mathematical sciences.

**3662. Philosophy of Science. (3).**

An examination of the basic features of science. A detailed analysis of the problems of scientific procedure, theory construction, and verifi-



cation both in the physical and social sciences will be made. **PREREQUISITE:** one semester of philosophy, or permission of the instructor.

**3701. Foundations of Western Religion. (3).**

A study of primitive religion and representative national religions of the past. Readings from such sources as *The Gilgamesh Epic*, *The Hymn to Aten*, and the hermetic, rabbinic, and apocalyptic literature. Special attention will be given to the mystery religions, gnosticism, the hellenistic philosophers and to their cultural impact on Judaism and Christianity. **PREREQUISITE:** one semester of philosophy.

**3711. Philosophy of Religion. (3). (313)**

The contribution of philosophy to the basic issues of religion; a recognition of the principles which make religion valid throughout all its diverse forms and in the face of advancing scientific knowledge. **PREREQUISITE:** one semester of philosophy, or permission of the instructor.

**3721. The Philosophy of Living Religions. (3). (314)**

An historical and comparative survey of the philosophies of contemporary non-Biblical religions of the world, with readings in the important literature: Hinduism, Buddhism, Confucianism, Taoism, Islam, etc. **PREREQUISITE:** one semester of philosophy, or permission of the instructor.

**3761. The Philosophy of Art. (3). (315)**

The major forms of aesthetics as expressed in painting, sculpture, and music, with readings in the great classics in aesthetics. **PREREQUISITE:** one semester of philosophy, or permission of instructor.

**4011. Theory of Knowledge. (3). (412)**

The basic problems of epistemology, with readings in the important philosophers. **PREREQUISITE:** two courses in philosophy, or one course and permission of the instructor.

**4021. Metaphysics. (3). (413)**

An analysis of the basic metaphysical concepts and a critical study of old and new theories of the nature of being. **PREREQUISITE:** two courses in philosophy, or one course and permission of the instructor.

**4031. Hegel. (3).**

The philosophy of Logic, Nature, and Spirit will be delineated together with a detailed investigation of *The Phenomenology of Mind*. **PREREQUISITE:** two courses in philosophy.

**4301. Classical American Philosophy. (3). (415)**

The development of philosophical ideas in America from the Puritans until 1900, and their relationship to the growth of social, political, and scientific thought. **PREREQUISITE:** one course in philosophy or a major in American history or English literature.

**4302. Recent American Philosophy. (3).**

The development of philosophy in America from 1900 to the present, with particular emphasis on pragmatism, realism, naturalism, and analytic philosophy. **PREREQUISITE:** two courses in philosophy.

**4371. Philosophy of the Nineteenth Century. (3).**

Extensive readings in representative 19th century philosophers from Fichte to Nietzsche, with special attention given to such movements

as dialectical materialism, existentialism, positivism, Darwinism, neo-Kantianism and English idealism. PREREQUISITE: two courses in philosophy.

**4421. Philosophy of Mind. (3).**

A critical evaluation and study of contemporary resolutions of the mind-body problem. Account will be taken of modern theories of perception, intentionality, affective and cognitive states, and related issues from the fields of learning theory, phenomenology and depth psychology. PREREQUISITE: two courses in philosophy.

**4431. Recent Problems in the Philosophy of Language. (3). (414)**

A study is made of the basic characteristics of scientific language; the problems of meaning and existence are given close attention. PREREQUISITE: two courses in philosophy.

**4441. Phenomenology and its Historical Background. (3).**

A reading and discussion of basic texts in translation of Husserl's *Ideas*, *Cartesian Meditations* and from the *Crisis of European Science and Phenomenology*. PREREQUISITE: two courses in philosophy.

**4632. Advanced Logic. (3). (411)**

The nature of axiomatic systems, techniques of formalization, and the logical foundations of mathematics. PREREQUISITE: Philosophy 2622, or permission of the instructor.

**4891. Senior Honors Seminar. (3).**

Primary emphasis on the writings of papers to be discussed in the seminar. Open only to senior honor students majoring in philosophy.

*Graduate courses in Philosophy: For course descriptions and further details of the graduate program, see The Bulletin of the Graduate School.*

## PHYSICAL EDUCATION

(See Health, Physical Education, and Recreation)

## PHYSICAL SCIENCES

(See Chemistry)

## PHYSICS

PROFESSOR CARROLL IJAMS, *Chairman*

*Room 121, Manning Hall*

Requirements for the major and minor in physics are listed on page 139.

**1111. Foundations of Physics. (3). (111)**

A thorough study of certain basic principles of science, with particular stress on the nature of physics, designed for the student who has had no previous training in physics. *Credit in this course will not apply toward a major or a minor in physics, chemistry, or physical science, nor will it satisfy any part of the science requirements in the pre-professional curricula.* PREREQUISITE: Two years of high school algebra or Mathematics 1211.

*Two lecture, two laboratory hours per week.*

**1112. Foundations of Physics. (3). (112)**

A continuation of Physics 1111. PREREQUISITE: Physics 1111. *Credit in this course will not apply to a major or a minor in physics, chemistry, or physical science, nor will it satisfy any part of the science requirement in the pre-professional curricula.*

*Two lecture, two laboratory hours per week.*

**1811. General Astronomy. (3).**

Practical astronomy and the solar system; topics include motions of the earth and moon, apparent motions of the stars and planets, eclipses, time and the calendar, properties of bodies in the solar system. Occasional observation periods will be held at night. PREREQUISITE: Mathematics 1211 or equivalent.

*Two lecture, two laboratory hours per week.*

**1812. General Astronomy. (3).**

A continuation of Physics 1811 with emphasis on a survey of stellar and galactic astronomy; topics include stellar distances and properties, interstellar matter, multiple stars, clusters, the milky way and other galaxies. Occasional observation periods will be held at night. PREREQUISITE: Physics 1811.

*Two lecture, two laboratory hours per week.*

**2111. General Physics. (4). (211)**

The general physics course, covering the topics of mechanics, heat, and sound; required of all pre-medical, pre-dental, and pre-pharmacy students. PREREQUISITE: Chemistry 1112 and Mathematics 1212.

*Three lecture, two laboratory hours per week.*

**2112. General Physics. (4). (212)**

A continuation of Physics 2111, covering the topics of magnetism, electricity, light, and modern physics. PREREQUISITE: Physics 2111.

*Three lecture, two laboratory hours per week.*

**2511. Physics for Science and Engineering. (4).**

Designed primarily for students intending to major in physics, chemistry, or mathematics; required of all students in the pre-engineering curriculum and recommended for students planning to teach physics in the secondary schools. PREREQUISITE or COREQUISITE: Mathematics 2321.

*Three lecture, two laboratory hours per week.*

**2512. Physics for Science and Engineering. (4).**

A continuation of Physics 2511. PREREQUISITE: Physics 2511. PREREQUISITE and COREQUISITE: Mathematics 2322.

*Three lecture, two laboratory hours per week.*

**3010. Introduction to Modern Physics. (4).**

A one-semester course designed to follow the basic sophomore physics courses and a recommended prerequisite for other advanced courses in physics. The properties of electrons, neutrons, protons, and other elementary particles, together with the basic concepts of nuclear structure, quantum theory, and relativity will be covered. PREREQUISITE: Physics 2512 (or 2112).

*Three lecture, two laboratory hours per week.*

- 3111. Mechanics. (3). (311)**  
An advanced course in classical mechanics covering statistics and dynamics of particles, rigid bodies, fluid flow, work, energy, momentum, force fields, and harmonic motion. Recommended as good preparation for advanced physics courses. PREREQUISITE: Physics 2512 (or 2112) and Mathematics 3391.  
*Three lecture hours per week.*
- 3112. Mechanics. (3). (312)**  
A continuation of Physics 3111. PREREQUISITE: Physics 3111.  
*Three lecture hours per week.*
- 3211. Electricity and Magnetism. (4). (321)**  
A study of electromagnetic fields and waves, including such topics as dielectrics, induced electromotive force, magnetic energy, magnetic materials, Maxwell's equations, and reflection and refraction. The laboratory will consist of basic electrical measurements and elementary circuit analysis. PREREQUISITE: Physics 3010. COREQUISITE: Mathematics 3391.
- 3212. Electricity and Magnetism. (4). (322)**  
A continuation of Physics 3211. PREREQUISITE: Physics 3211.  
*Three lecture, three laboratory hours per week.*
- 3510. Electronics. (4). (351)**  
Theory and applications of electronic devices such as vacuum and gas-filled tubes, photoelectric cells, and semi-conductors, with particular emphasis on basic electronic circuitry and laboratory instrumentation. PREREQUISITES: Physics 3010 and Mathematics 2322.  
*Three lecture, three laboratory hours per week.*
- 4010. Advanced Experimental Physics. (2).**  
A course designed to teach the use of the more advanced laboratory equipment and instruments, with emphasis on effective planning and performance of experiments, the treatment and interpretation of data, and the use of scientific literature and library facilities. PREREQUISITE: Physics 3112, 3212, and approval of staff.  
*Six laboratory hours per week.*
- 4011. Advanced Experimental Physics. (2).**  
A continuation of Physics 4010. PREREQUISITE: Physics 4010.  
*Six laboratory hours per week.*
- 4051. Astrophysics. (3).**  
Application of radiation laws to the interpretation of stellar structure. Introduction to radiative transfer in atmospheres. The spectral and luminosity classification of stars. Stellar populations and evolution. PREREQUISITE: Physics 1812 (or permission) and 3010. COREQUISITE: Mathematics 3391.
- 4052. Astrophysics. (3).**  
A continuation of Physics 4051, with emphasis on interstellar matter, stellar system, galactic structure, radio astronomy. PREREQUISITE: Physics 4051 or permission of the instructor.
- 4111. Atomic and Nuclear Physics. (4). (411)**  
A study of atomic structure and behavior, the interaction of atomic particles, nuclear structure, and subatomic particles, radiation and its



properties and origin, with some consideration of applications of recent developments in physics. PREREQUISITE: Physics 3010, 3112, 3212.

*Three lecture, three laboratory hours per week.*

**4112. Atomic and Nuclear Physics. (4). (412)**

A continuation of Physics 4111. PREREQUISITE: Physics 4111.

*Three lecture, three laboratory hours per week.*

**4211. Optics. (4). (421)**

Geometrical and physical optics including such topics as thin lenses, spherical mirrors, lens aberrations, optical instruments, waves, interference, diffraction, absorption, transmission, and scattering. PREREQUISITES: Physics 3212; Mathematics 2322.

*Three lecture, three laboratory hours per week.*

**4212. Optics. (4). (422)**

A continuation of Physics 4211. PREREQUISITE: Physics 4211.

*Three lecture, three laboratory hours per week.*

**4310. Radioisotope Technology. (3). (431)**

Properties and detection of radiation, production of isotopes, use of detection devices, radiation chemistry, thickness and density gauging, activation analysis, moisture measurement, safety procedures, analytical tracer techniques, industrial radiography, procurement of radioisotopes and radioisotope licenses, and design of radiochemical laboratories. Not applicable to a major in physics. PREREQUISITE: Approval of staff.

*Two lecture, two laboratory hours per week.*

**4410. Introduction to Quantum Theory. (3).**

Experimental basis of quantum theory; development of the Schrodinger equation and its solution for simple systems; selected applications in atomic and molecular structure. PREREQUISITE: Physics 3010, 3112, 3212. COREQUISITE: Mathematics 4392.

*Three lecture hours per week.*

**4510. Thermodynamics. (3). (451)**

A mathematical treatment of thermodynamics, including such topics as work, energy, enthalpy, entropy, reversible and irreversible processes, equilibria, specific heats, and phase transitions. RECOMMENDED COREQUISITE: Physics 3112 or 3212.

*Three lecture hours per week.*

**4520. Statistical Mechanics. (3).**

Elements of kinetic theory and applications to gases, specific heats, magnetism, etc. Partition functions; introduction to Boltzmann statistics and quantum statistics. PREREQUISITE: Physics 4510.

*Three lecture hours per week.*

**4610. Solid State Physics. (3).**

Consideration of such topics as lattice vibrations, specific heats, electrical and thermal conductors in solids, magnetism. PREREQUISITES: Physics 3112 and 3212.

*Three lecture hours per week.*

**4710. Spectroscopy. (3).**

Atomic and molecular structure as revealed by the study of radiation emitted and absorbed by substances. COREQUISITE: Physics 4111 or 4410.

*Three lecture hours per week.*

**4911. Introduction to Theoretical Physics. (3).**

Special mathematical techniques used in the theoretical treatment of physical phenomena, boundary value problems, matrices, Fourier series and integrals, etc., as applied to advanced physical theory. PREREQUISITES: Physics 3112 and 3212. COREQUISITE: Mathematics 4391.

*Three lecture hours per week.*

**4912. Introduction to Theoretical Physics. (3).**

A continuation of Physics 4911. PREREQUISITE: Physics 4911.

*Three lecture hours per week.*

*Graduate courses in Physics: For course descriptions and further details of the graduate program, see The Bulletin of The Graduate School.*

## POLITICAL SCIENCE

ASSOCIATE PROFESSOR H. R. MAHOOD, *Acting Chairman*

*Room 419, Clement Hall*

Requirements for the major and minor in political science are listed on page 139.

For information concerning the pre-law curriculum, see page 124.

**1101. Introduction to Political Science. (3). (121)**

Nature and development of the state, role of government in the social process, the nature and development of political organization, and the search for a just balance of authority and freedom.

**1301. Survey of Modern Foreign Governments. (3). (122)**

A comparative study of political institutions and functions of selected foreign governments: Great Britain, France, Germany, and Russia.

**2211. National Government. (3). (221)**

The origins of our system of government, the framing of the Constitution, the principles underlying constitutional government, citizenship, civil rights, political institutions, the national executive, the congressional organization and function, and the judicial process.

**2221. State and Local Governments. (3). (222)**

The role of the state governments in the Federal System, political institutions, elections; the organization, functions, and problems of state government, with special emphasis on Tennessee government.

**3211. The Legislative Process. (3). (311)**

The origins, organization, functions, and activities of the modern legislature; making laws, supervising the administration, representing and informing the people.

**3216. Political Parties. (3).**

An analysis of the political party as a process of government, with emphasis upon party organization, activities, nominating and campaign methods, voter participation, and the two-party system.

- 3221. Local Government and Administration. (3).**  
The political functions and structures of local units of government; legislative, executive, and judicial processes and structures; interrelationships of governments at various levels. Special attention is given to the county and small municipality.
- 3224. Metropolitan Government. (3).**  
The functions and role of government in urban America in the context of urban politics and the social, economic, and governmental problems of cities and suburbs.
- 3306. Latin American Government and Politics. (3). (321)**  
The forms of organization, the functions and operations of government in Latin America. Emphasis will be placed on the development of political institutions and present day trends.
- 3401. History of Western Political Thought to the Eighteenth Century. (3). (341)**  
The history, formation, and development of political thought of the West, from the political philosophers of ancient Greece to the eighteenth century.
- 3402. History of Western Political Thought from the Eighteenth Century to Present. (3).**  
The history, formation, and development of western political thought from the eighteenth century to the present.
- 3405. Introduction to Law and Jurisprudence. (3). (315)**  
A study of the sources, functions, and processes of law.
- 3501. International Politics. (3). (331)**  
A basic study of international relations, with emphasis on the methodology of international politics as a discipline and the basic political concepts of national policy and international politics.
- 3505. International Organization. (3).**  
The history and nature of international organizations; political and ideological concepts toward international cooperation. The United Nations, the regional organizations, and international welfare and/or administrative agencies are used as specific studies.
- 3506. American Foreign Policy Process. (3). (411)**  
An analysis of American foreign policy, with emphasis on the factors involved in developing and implementing policy.
- 3601. Public Administration. (3). (314)**  
The concepts and practices of organization and management in the executive departments, national, state, and local; an analysis of bureaucracy, administrative theory, budgeting, personnel, and administrative leadership.
- 3602. Public Personnel Administration. (3).**  
A study of the problems of the administrator in recruitment, selection, training, promotion, discipline, and morale of personnel.
- 4101. Scope and Method of Political Science Research. (3).**  
Review and evaluation of the philosophical concepts, approaches, and methodologies applicable in political science.

- 4211. The Constitution: Governmental Structure and Relationships. (3). (414)**  
An analysis of the relationships and controls of the three branches and the nature of the division of power between the nation and the states, with emphasis on the role of the Supreme Court as the arbiter in the constitutional system.
- 4212. The Constitution: Political and Civil Rights. (3). (415)**  
An examination of the judicial interpretation of the political and civil rights with emphasis on the period since 1875.
- 4213. Development of United States Domestic Policy. (3). (412)**  
A study of the formation and execution of selected domestic policies (fiscal, economic, agriculture and conservation, welfare, grants-in-aid) with a detailed examination of the political and administrative environment of governmental decision making.
- 4214. The Executive Process. (3).**  
A detailed study of the role of the executive in American politics.
- 4215. The Judicial Process. (3).**  
An examination of the structure of the legal system and the role of the judiciary in government and politics. Emphasis is on the American legal system and the factors which enter into judicial decision-making, including political, social, economic, and psychological factors.
- 4216. Pressure Groups and Public Opinion. (3).**  
A study based upon the assumption of the existence of a pluralistic society in which individuals sharing common interests are organized into political groups for the attainment of these interests, and how these groups influence public opinion in the political process.
- 4221. State and Local Developmental Administration. (3).**  
Problems and issues in the administration of economic, social, and political development; planning, organizing, and programming of change, technical assistance, and resource administration.
- 4224. Municipal Problems. (3). (413)**  
A study of selected problems in municipal administration (organization, personnel, fiscal, planning).
- 4301. British Government and Politics. (3). (423)**  
The nature and development of the British Constitutional system, with special emphasis placed on the Cabinet, Parliament, and the Commonwealth organization and function.
- 4302. The Politics of Developing Nations. (3).**  
The special political and economic problems of developing nations.
- 4305. Soviet Government and Politics. (3). (422)**  
Organization and function of the authoritarian state, with emphasis on the role of the Communist Party and ideology.
- 4306. Contemporary Latin American Politics. (3).**  
A study of contemporary problems in Latin American politics and inter-American relations.
- 4401. Modern Political Ideologies. (3).**  
Examination of the major political doctrines of the modern world;



democracy, communism, fascism, capitalism and socialism; doctrines of developing nations; nationalism, racism, pacifism, and non-violence.

- 4405. American Political Thought. (3). (431)**  
An analysis of political thought in the United States from the colonial to the present time, with emphasis placed on the relation between political thought and political institutions and practices.
- 4501. Contemporary Problems in International Politics. (3).**  
A study of contemporary problems in international relations with emphasis on the major powers.
- 4502. Soviet Foreign Policy. (3).**  
Basic concepts of Soviet foreign policy; development and techniques; present patterns of Soviet relations with key nations; major problems in future relationships. **PREREQUISITE:** Junior standing.
- 4503. Inter-American International Relations. (3).**  
Inter-American international relations, including a study of the various regional organizations as well as relations with the United States and Europe.
- 4504. International Law. (3). (432)**  
An analysis of the nature, scope, duties, rights, and evolutionary trends of international law.
- 4505. World Communist Movement. (3).**  
The development of the world communist movement from its inception to the present: its Leninist origins; the Bolshevization and Stalinization of the movement; the rise of other national communist parties; the Sino-Soviet conflict and "polycentrism."
- 4506. Problems of American Foreign Policy. (3).**  
A study of American foreign policy problems taken from specific areas or issues of policy.
- 4602. Public Finance Administration. (3).**  
Detailed study of administrative and political problems of fiscal policy, the budgetary process, and fiscal controls.
- 4604. Problems of Public Administration. (3).**  
An examination of the administrative processes, including an investigation of laws, the powers, procedures, and the limitations upon administrative offices and agencies.
- (The following course, offered in The Graduate School, is open to undergraduates within 36 semester hours of graduation. This course does not carry graduate credit nor is it applicable to any degree offered in The Graduate School.)*
- 5106. The Political System. (3).**  
A systematic analysis of the elements of the political system, showing the interrelationship of political culture (values, beliefs, attitudes, consensus), the formal and informal patterns of power, the patterns of interest, and the pattern of policy.

*Graduate Courses in Political Science: For course descriptions and further details of the graduate program, see The Bulletin of The Graduate School.*

# PSYCHOLOGY

PROFESSOR ROBERT VIDULICH, *Chairman*  
Room 211, Johnson Hall

Requirements for the major and minor in psychology are listed on page 139.

*IMPORTANT NOTE: Psychology 1101 and 1102 are prerequisite for all other courses in the Department of Psychology.*

**1101. General Psychology I. (3). (111)**

An introduction to psychology as a natural science emphasizing research findings and theoretical interpretations in the investigation of behavior and experience. Areas covered include individual differences, social processes, aptitudes and vocational adjustment, intelligence, personality, and behavior pathology.

**1102. General Psychology II. (3). (112)**

A continuation of Psychology 1101. Areas covered include sensation and perception, motivation and emotion, learning and retention, and physiological mechanisms.

**2301. Psychological Statistics. (3). (215)**

An introduction to the use of statistics in psychology, with emphases on elementary theory of measurement and computation. Topics covered include measures of central tendency and variability, tests of significance, correlation procedures, and an introduction to multivariate analyses, analysis of variance, and non-parametric procedures.

**2302. Experimental Techniques in Psychology. (4). (Formerly 3202)**

An introduction to methods and techniques of observation and research on psychological topics, with emphasis on controlled laboratory experiments in such areas as learning, motivation, psychophysics, sensation, perception, and concept formation. Individual laboratory experience stressed.

*Three lecture, two laboratory hours per week.*

**3101. Psychology of Personality. (3). (311)**

The development, organization, and assessment of the normal person is examined, with an introduction to theories of personality.

**3102. Abnormal Psychology. (3). (312)**

A survey of basic concepts of psychopathology with emphasis on the development of behavior deviations, description of various neurotic and psychotic reactions, and an introduction to methods of psychotherapy.

**3103. Developmental Psychology. (3). (316)**

Patterns of intellectual and behavioral development from birth to maturity. Psychological effects of genetic, organic, and environmental influences as the individual matures.

**3201. Experimental Psychology: Learning. (4). (314)**

A survey and critical analysis of the theories, concepts, and principles of the acquisition and retention of behavior. **PREREQUISITES:** Psychology 2301 and 2302.

*Three lecture, two laboratory hours per week.*

- 3301. Industrial and Organizational Psychology. (3). (Formerly 2101)**  
An examination of the application of psychological concepts and methods to phenomena in industrial and organizational settings, with emphasis on personnel selection, classification and evaluation, employee attitudes, morale and motivation, and psychological analysis of the conditions of work.
- 3302. Social Psychology. (3). (Formerly 2102)**  
An analysis of the behavior and experience of individuals in group settings, examining such topics as leadership, social influence, and intergroup and intragroup relations.
- 3303. Thinking and Cognitive Processes. (3).**  
An analysis of the development and modification of thinking, reasoning, conceptualization, language and symbolic activity, and other mediational processes in the individual.
- 3304. Psychological Appraisal. (3). (Formerly 4302)**  
An introduction to the development and application of psychological tests, with an emphasis on test construction, standardization, and validation; a survey of commonly used instruments and techniques in the psychological appraisal of the individual.
- 4101. History of Psychology. (3). (411)**  
A comprehensive survey and critical analysis of the philosophical and scientific antecedents of contemporary psychology. PREREQUISITE: 10 upper-division hours in psychology.
- 4201. Experimental Psychology: Physiological Processes. (4). (412)**  
A study of the physiological functions involved in behavior and experience. A survey of the physiology of the sense organs, nervous system, and response mechanisms. PREREQUISITE: Psychology 3201.  
*Three lecture, two laboratory hours per week.*
- 4202. Experimental Psychology: Comparative Behavior. (4). (418)**  
Detailed study of laws of heredity and interactions of genetic factors and environmental factors on individual and species differences in behavior. A survey of differences between species in processes underlying behavior. PREREQUISITE: Psychology 3201.  
*Three lecture, two laboratory hours per week.*
- 4203. Experimental Psychology: Sensation and Perception. (4). (Formerly 2201)**  
Detailed survey of the major senses with emphasis on methods of investigation and behavioral applications. Study of the perceptual processes and influences of learning and motivation on perception. PREREQUISITE: Psychology 3201.  
*Three lecture, two laboratory hours per week.*
- 4501. Honors Seminar in Psychology. (3).**  
Seminar discussion of current theoretical issues and experimental studies in psychology; open to outstanding advanced students by invitation of the faculty.
- 4502. Honors Thesis in Psychology. (3).**  
Supervised individual research on a selected topic in contemporary psychology; open to outstanding advanced students, by invitation of the faculty.

# RUSSIAN

(See MODERN LANGUAGES)

## SECONDARY EDUCATION

PROFESSOR HEBER ELIOT RUMBLE, *Chairman*  
*Room 424, The College of Education Building*

The Department of Secondary Education offers majors and minors in secondary education; requirements are listed on page 166.

- 2011. Foundations of Educational Thought and Practice. (3). (203)**  
 An overview of the whole field of education, with emphasis on those things a prospective teacher should know at the beginning of his professional preparation.
- 2111. Human Growth and Development. (3). (102)**  
 An attempt to help the student understand child nature and development, to appreciate the fact that all behavior is caused, and to form the habit of seeking bases for both normal and abnormal behavior in situations at home, at school, and in the community.
- 3121. The Psychology of Learning. (3). (201)**  
 The psychology of learning as applied to activities under the guidance of the school.
- 3301. Teaching Methods in High School Subjects. (3). (381)**  
 Emphasis is placed on ways in which learning experiences may be organized to insure effective pupil learning. PREREQUISITES: Education 2011, 2111, and 3121.
- \*3321. Materials and Methods in High School Art. (1 or 3). (391A)**
- \*3322. Materials and Methods in High School Music. (1 or 3). (391K)**
- \*3331. Materials and Methods in High School Physical Education. (1 or 3). (391L)**
- \*3332. Materials and Methods in High School Health. (1 or 3). (391Q)**
- \*3341. Materials and Methods in High School English. (1 or 3). (391D)**
- \*3342. Materials and Methods in High School French. (1 or 3). (391E)**
- \*3343. Materials and Methods in High School German. (1 or 3). (391F)**
- \*3344. Materials and Methods in High School Latin. (1 or 3). (391I)**
- \*3345. Materials and Methods in High School Spanish. (1 or 3). (391O)**
- \*3346. Materials and Methods in High School Speech. (1 or 3). (391P)**
- \*3351. Materials and Methods in High School Mathematics. (1 or 3). (391J)**



- \*3361. **Materials and Methods in High School Biology.** (1 or 3). (391B)
- \*3362. **Materials and Methods in High School Physical Science.** (1 or 3). (391M)
- \*3371. **Materials and Methods in High School Social Studies.** (1 or 3). (391N)
- \*3381. **Materials and Methods in Vocational Business Subjects.** (1 or 3). (391C-a)
- \*3382. **Materials and Methods in Bookkeeping and General Business Subjects.** (1 or 3). (391C-b)
- \*3383. **Materials and Methods in High School Home Economics.** (1 or 3). (391G)
- \*3384. **Materials and Methods in High School Industrial Arts.** (1 or 3). (391H)

\*NOTE: The methods courses in high school subjects include objectives, content, and grade placement of subject; tools of instruction, organization of courses; teaching procedures and practice. A course may be taken for one hour credit (formerly 391W) only if the student has had, or is enrolled in, Education 3301 and is unable to schedule the methods course for three hours credit before graduation. The course, when taken for one hour credit, requires a conference each week with an instructor competent to provide the necessary special instruction. PREREQUISITES for the courses are: Education 2011, 2111, and 3121.

- 3385. **Driver Education and Traffic Safety.** (3). (335)  
(Same as Technology 3385.)

Study and practice in the preparation of instructional materials dealing with traffic and safety; care and upkeep of the automobile, and behind-the-wheel instruction. Open only to students whose major or minor is in the Department of Secondary Education.

*Two lecture, two laboratory hours per week.*

- 3901. **Special Problems in Instruction.** (1 to 3). (351)  
Individual investigation in the area of instruction. PREREQUISITE: experience as a teacher or satisfactory evidence of being qualified to benefit from such a course.

- 4011. **History of Education.** (3). (451)  
This course traces through European history some of the more important educational problems of modern times as they have been affected by the social and political facts of history, by the contributions of some of the leading education theorists, and by institutional practices.

- 4012. **History of Education in the United States.** (3). (452)  
This course aims to trace, describe, and evaluate the development and growth of educational practices, institutions, and theories in the United States from the colonial period to the present.

- 4021. **Philosophy of Education.** (3). (453)  
A guide to the philosophical treatment of educational problems, designed to develop in the student some facility in critical and systematic thinking.

- 4031. Educational Sociology. (3). (456)**  
Group behavior in the educational process; sociological factors involved in the interaction of pupils, teachers, administrators, and community.
- 4112. The Psychology of Adolescence. (3). (472)**  
A study of the characteristics of adolescence that should be taken into account in the planning and teaching of secondary school courses, in the supervision of extra-class activities, and in guiding and counseling.
- 4131. Mental Hygiene and the School. (3). (476)**  
Guidance in the teacher's own personality development and a study of the mental hygiene of the child as affected by his past and present environment.
- 4301. Audio-Visual Instructional Materials in Education. (3). (466)**  
Introduction to means for effective preparation and utilization of selected multi-media materials. Laboratory practice in operation of audio-visual equipment and development of selected materials and techniques centered around student interests. Emphasis on the implications of audio-visual media for teaching.
- 4306. Educational Methods for Adult Education. (3).**  
This course places emphasis on trends, instructional and resource materials, and instructional techniques used in adult educational programs.
- 4344. The Teaching of Reading in the Secondary Schools. (3).**  
A course designed for teachers of content subjects at the secondary level, exploring methods, materials, and organizational patterns by which reading skills can be developed and improved in the secondary schools.
- 4441. Curriculum Problems and Trends in the Secondary School. (3). (461)**  
This course is designed to afford some help in the clarification of secondary school educational purposes and in determination of appropriate learning activities; it deals with the functional teaching objectives, ways of obtaining these objectives, methods of establishing relationships among the school subjects, developing the core curriculum, and the organization and use of units of work.
- 4511. Educational Tests, Measurements, and Practicum Applications I. (3).**  
The principles underlying the construction of objective tests and the problems relating to the rise and interpretation of school measurements by teachers and administrators; practice in the construction of new type and essay tests, and in the elements of statistical procedure necessary for the interpretation of school measurements. **PREREQUISITE:** Restricted to selected students.
- 4512. Educational Tests, Measurements, and Practicum Applications II. (3).**  
The course includes interpretations of reliability and validity; standardization techniques; and applications of instrumentation procedures. The course content will be used in the research practicum. **PREREQUISITE:** Education 4511, and restricted to selected students.

**4541. Introduction to Educational Statistics and Practicum Applications I. (3).**

This course deals with techniques used in educational research. The course contains the development of skills dealing with mathematical probability, frequency functions, moments, and measures of dispersion. Applications of course content will be coordinated with the research seminar. **PREREQUISITE:** Restricted to selected students.

**4542. Introduction to Educational Statistics and Practicum Applications II. (3).**

The course includes the use of statistics in research designs, the problem of replicability, and the methodology used in proposing and reporting research. The course will be directed toward the development of competence in statistical applications. **PREREQUISITE:** Education 4541, and restricted to selected students.

**4611. Procedures, Administration, and Organization of Guidance Services in Schools. (3). (471)**

Historical background and growth of the guidance movement; sociological, psychological, and educational foundations; functions, scope, organization and administration of guidance services; duties and responsibilities of administrators, teachers, and specialists in guidance programs.

**4691. Supervised Practicum in Counseling. (3). (479)**

Classroom instruction and practical experience to prepare upper-classmen to serve as counselors in dormitory situations. **PREREQUISITE:** Consent of the Dean of Women.

**4701. Workshop in the Improvement of Instruction. (3). (431)**

This course is designed to assist both in-service and prospective teachers to improve the instruction-learning program; attention is given to the purposes of education, classroom learning, motivation of learning, utilization of materials, evaluation of teaching and learning, etc., and to the application of these elements in the several instructional areas of the elementary school and in the particular subject areas of the secondary school.

**4741. Materials and Methods of Teaching High School ———. (3). (492)**

A workshop in teaching methods in a specified endorsement area.

**4771. Workshop in the Administration of Guidance Services. (3). (432)**

This course is designed to assist in-service and prospective teachers and administrators in providing more effective guidance services in grades 1 through 12; particular attention will be given to the planning, organizing, and evaluating of such services as inventory, information, counseling, placement, and follow-up.

**4791. Materials and Methods of Teaching High School ———. (3). (491)**

An advanced course in a specified endorsement area, partly taught by means of televised instruction.

**\*4841. Directed Student Teaching in the Secondary School. (3 to 9). (415)**

Observation of the growth and development of pupils and of methods

of teaching; participation in school activities, culminating in assuming responsibility for teaching entire groups.

**\*4842. Directed Student Teaching in the Secondary School. (3 to 6). (416)**

For the student who has completed six semester hours or less of student teaching on the secondary level and desires some additional experience.

*(The following courses, offered in The Graduate School, are open to undergraduates within 36 semester hours of graduation. None of these courses carries graduate credit nor is applicable to any degree offered in The Graduate School.)*

**5461. The Pupil Activity Program. (3). (S-566)**

A study of current philosophy and practice in regard to responsibilities of teachers, supervisors, and administrators for those phases of educational practice which are essential for the educational program but are not considered as part of general classroom procedure.

**5511. Measurement and Evaluation. (3). (S-553)**

The principles underlying the construction of objective tests and the problems relating to the use and interpretation of school measurements by teachers and administrators; practice in the construction of new-type and essay tests, and in the elements of statistical procedure necessary for the interpretation of school measurements.

*Graduate Courses in Secondary Education: For full details of the graduate program, see The Bulletin of The Graduate School.*

\*For detailed information concerning the requirements for admission to the student teaching program, see page 159.

## SECRETARIAL SCIENCE

PROFESSOR RIENZI WILSON JENNINGS, *Chairman*

*Room 107, The College of Business Administration Building*

Requirements for the majors and minors in secretarial science and in office management are listed on page 154.

**1210. Elementary Typewriting. (3). (121)**

Use and operation of the parts of the typewriter, mastery of the keyboard, simple business and professional letters and reports, introduction to tabulations. Five meetings per week. Both semesters. Students who have completed one or more units of typewriting in high school may not take Secretarial Science 1210 for credit.

**\*1220. Intermediate Typewriting. (3). (122)**

The typing of different styles of business letters, tabulations, and manuscripts; developing a typing rate of 45 words or more per minute. Both semesters.

**2120. Fundamentals of Shorthand. (3). (211)**

Basic principles of Gregg shorthand—alphabet, brief forms, phrases, and

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\*Credit not allowed if student has credit for Secretarial Science 2230 or Secretarial Science 222.



abbreviations; beginning dictation and pre-transcription training. Both semesters. Students who have completed one or more units of shorthand in high school may not take Secretarial Science 2120 for credit.

*Five meetings per week.*

- 2130. Intermediate Shorthand. (3). (212)**  
(formerly Fundamentals of Shorthand II.)

Review of shorthand theory, acquisition of ability to take shorthand and to transcribe accurately. Both semesters. PREREQUISITE: Secretarial Science 1220 or equivalent; Secretarial Science 2120 or equivalent.

*Five meetings per week.*

- 3140. Advanced Shorthand. (3). (311)**

Review of shorthand principles, daily speed practice, development of transcription skill for production of mailable transcripts. Both semesters. PREREQUISITE: Secretarial Science 3250 or Secretarial Science 1220.

*Five meetings per week.*

- 3250. Advanced Typewriting. (3). (321)**

Review of business letter styles, manuscripts and reports, statistical tables, and the tabulating and electronic-computer systems of data processing. Development of a type rate of better than 60 words per minute. Both semesters. PREREQUISITE: Secretarial Science 1220.

- 3510. Business Communication. (3). (351)**

The fundamentals of business communication are examined and studied with a view to a thorough understanding of the techniques of report writing and of some of the basic forms of letters. Emphasis is placed on the writing of reports, financial statements, minutes of meetings, abstracts, and specific types of routine letters. Attention is also given to selection and use of research mediums. The importance of capitalization, spelling, word division and choice, and of grammar is emphasized. Fall, spring and summer terms. PREREQUISITE: Completion of freshman English plus the ability to type.

- 3520. Business Letter Writing. (3). (352)**

Psychology of the business letter, preparation of various types of business letters, letter writing problems. Spring semester. PREREQUISITE: Ability to type and freshman English.

- 4160. Secretarial Dictation. (1 or 3). (433)**

Students will do stenographic work in some office on campus. The Instructor, after conferring with the office head, will plan remedial work designed to prepare student for stenographic employment upon completion of course. Both semesters. PREREQUISITE: Permission of the instructor.

*Three or nine hours of office work per week.*

- 4270. Secretarial Typewriting and Office Machines. (3).**

(Formerly two courses, 3310 and 4260.)

Instruction and practice in use of secretarial office machines including electric typewriters; transcribing from voicewriting equipment; ink, spirit and offset duplication; copying machines. Spring and first summer term. PREREQUISITES: Secretarial Science 3250 and Secretarial Science 3510.

*Five meetings per week, or 2 two-hour labs per week.*

**4320. Applied Secretarial Practice. (3). (431)**

Qualifications, duties and training of a secretary; requirements for employment; organization of work; telephone etiquette; business reference books; receptionist techniques. Fall semester.

**4330. Records Management and Control. (3). (432)**

(formerly Applied Secretarial Practice II).

Handling of incoming and outgoing mail; filing procedures; installation, administration, and control of geographic, numeric, subject and Soundex filing systems; practice in the several types of filing. Spring semester.

**4400. Punched-Card Methods. (3).**

Introductory course in the operation and use of punched-card equipment. Key punching, sorting, tabulation and preparation of reports, card designing and application to problems in the fields of economics, marketing, accounting, personnel, education, and other areas of research. Both semesters.

**4401. Punched-Card Applications. (3).**

An advanced course in the field of data processing. The course provides study in flow charting, systems analysis, card layout, systems design and production work on unit record equipment. Both semesters. PREREQUISITE: Punched Card Methods 4400 and Accounting 2020.

**4410. Office Management. (3). (442)**

Modern methods used in office organization and management, scientific office management, office reports, office correspondence, calculating and checking, filing, records retention, duplicating, handling the mail, planning procedures, planning for equipment, office machines, automation, planning for office space, physical working conditions and office layout. Fall semester.

**4530. Executive Communication. (3). (452)**

Methods and techniques of communication are critically examined through the writing of case problems in correspondence with emphasis placed upon principles and correct writing; and in reports with importance placed upon the collection, analysis, organization, and presentation of authentic data. Open to seniors and to graduate students, the course is primarily designed for the student who has had no basic study in either business correspondence or business report writing on the undergraduate level.

*(The following course, offered in The Graduate School, is open to undergraduates within 36 semester hours of graduation. This course does not carry graduate credit nor is it applicable to any degree offered in The Graduate School.)*

**5420. Problems in Office Management. (3). (S-542)**

(formerly Office Management II)

Problems in actuating office employees and controlling the work of the office, including motivating office personnel, job evaluation, recruiting and training office employees, office supervision, standards and standardization, quantity and quality control, improving procedures, office manuals, office costs, simplification, office forms, measuring and timing office work, and budgets.

*Graduate Courses in Secretarial Science and Office Management: Certain of the 4000 courses, described in the preceding section, may be taken for graduate credit. For further information concerning the graduate program, see The Bulletin of The Graduate School.*

# SOCIOLOGY AND ANTHROPOLOGY

PROFESSOR CHARLES NEWTON, *Chairman*  
Room 124, Clement Hall

Requirements for the majors and minors in sociology and in anthropology are listed on page 139. For information concerning the pre-social work curriculum, see page 124.

**IMPORTANT NOTE:** *Sociology 1111 is a prerequisite for all other courses in sociology.*

## SOCIOLOGY

- 1111. Society and Man. (3). (211)**  
Nature and significance of culture; social organization and social processes; social and culture change.
- 1520. Introduction to Law Enforcement. (3).**  
An introduction to the profession of law enforcement and police science, tracing the development of law enforcement from early English beginnings to the present time, dealing with criminal behavior, criminal law, and the role of the police in modern society.
- 2112. Contemporary Social Problems. (3). (421)**  
Investigation, analysis, and discussion of current social problems.
- 2410. The Modern Community. (3). (212)**  
The community and its provisions for health, education, recreation, safety, and welfare; recent trends in control and planning.
- 2420. The Family. (3). (312)**  
The family in social change, the family and personality, family organization, family disorganization and reorganization, families in foreign lands, the future of the American family.
- 2911. Survey of the Field of Social Work. (3). (423)**  
History and philosophy of social work in the United States, functions of public and private social service programs, qualifications and opportunities for social work practice.
- 3311. Social Statistics. (3). (426)**  
Statistical and non-statistical approaches employed in contemporary social research, review and analysis of important monograph findings, practical applications derived from recurring social behavior.
- 3322. Methods of Social Research I. (3).**  
An introduction to the selection and formulation of a research problem; the design of the research project, including sampling procedures; the methods of field observation, questionnaire construction, and participant observation techniques; the analysis and interpretation of research data; the preparation of the research report. **PREREQUISITE:** Sociology 3311.
- 3323. Methods of Social Research II. (3).**  
An extension of Sociology 3322 emphasizing the methods of the research interview; special techniques used in the study of small groups; the use of secondary sources, including the methods of content analysis; techniques of community studies; and the use of calculators and computers in sociological research. **PREREQUISITE:** Sociology 3322.

- 3430. Social Control. (3). (321)**  
The problem of social control, internalizing social control, social structures and institutions in the maintenance of order, improving social control.
- 3440. Social Stratification. (3). (323)**  
Social classes and social status; power, prestige, and social opportunities of the upper, middle, and lower classes; cross-cultural analysis of social stratification; social mobility.
- 3450. Dynamics of Social Change. (3).**  
A sociological analysis of the theory, nature, meaning, and consequences of social change.
- 3510. Sociology of Deviant Behavior. (3).**  
Contemporary theories of deviant behavior; the major types of deviation in American society; the relationship of deviant behavior and social disorganization to social change.
- 3521. Criminology. (3). (411)**  
Theories of causation, crime as a business, affiliated problems, trends in punishment, treatment of offenders, control and prevention.
- 3730. Social Attitudes. (3). (322)**  
Personal and popular attitudes, attitudes and wishes, attitudes as social forces.
- 3811. Social and Ethnic Minorities. (3). (Same as Anthropology 3811).**  
A comparative study of social and ethnic minorities in the United States and elsewhere with a focus on differences in cultural backgrounds, social relationships with the larger society; social, educational, and legal problems; factors contributing to the satisfactory and unsatisfactory adjustments of minorities.
- 3820. Educational Sociology. (3). (416)**  
Sociological analysis of education and its functions; school and community relationships; problems of social change and educational adjustments.
- 3841. Industrial Sociology. (3). (413)**  
Social characteristics of business and industrial organizations; role of the consultant in personnel organization and human relations programs.
- 3860. Sociology of Religion. (3).**  
The role of religion in social systems; reciprocal influence of religion and modern society; sociological analysis of religious organizations and the roles which comprise them; social correlates of religious opinions and attitudes.
- 3870. Political Sociology. (3).**  
A sociological examination of political institutions: cultural and social factors associated with political structure, political attitudes, and political behavior; political decision-making as a sociological process; a comparative and methodological study of social movements and political parties. PREREQUISITE: Sociology 1111 and 2112, or permission of the instructor.



- 3871. Public Opinion and Propaganda. (3).**  
The nature and development of public opinion with particular consideration of the roles, both actual and potential, of communication and influence.
- 3912. Methods of Social Work. (3). (424)**  
Theory and practice in social work, social casework, social group work, the interview, analysis of case records, field observation in local social agencies.
- 3913. Sociology of Action Groups. (3). (425)**  
Community organization and the utilization of citizen groups, action research, group process techniques, orientation and application for social work and other fields.
- 4211. Modern Sociological Theories. (3). (422)**  
European contributions, American developments, recent trends and influences in sociological theory.
- 4222. History of Social Thought. (3). (419)**  
Emphasis on the historic sources of social ideas in Western culture in terms of their relevance to contemporary systematic theory.
- 4320. Theories of Criminology. (3).**  
Major theories of criminology reviewed from various academic approaches to evaluate the meaning of criminal delinquency.
- 4412. Urban Research. (3).**  
Extensive exploration of research methods that have proved useful in the study of urban social phenomena; the application, limitations, and advantages of various research approaches. PREREQUISITE: Sociology 2410 and senior standing.
- 4413. Urban Theory Seminar. (3).**  
A seminar in sociological theories of urbanism and urbanization. Analysis of both historical and contemporary theories. PREREQUISITE: Senior standing, or permission of the instructor.
- 4522. Analysis of Juvenile Delinquency. (3). (420)**  
Trends of juvenile delinquency; the development of case study techniques and diagnosis of juvenile delinquency; comparative analysis of various theoretical approaches. PREREQUISITE: Sociology 3521.
- 4523. Techniques of Criminal Investigation. (3).**  
A description, analysis, and demonstration of historical and contemporary techniques and procedures utilized in the apprehension of the criminal.
- 4524. Penology. (3).**  
The historical and contemporary analysis of penal systems and reformatories in terms of organization, procedures, programs, and effectiveness.
- 4525. Probation and Parole. (3).**  
The analysis of various release procedures and their effectiveness from an historical, philosophical, and sociological point of view.
- 4526. Police Administration. (3).**  
A comparative analysis of the problems, procedures, organization, and functions of effective police organization.

- 4527. Law Enforcement and the Criminal Law. (3).**  
The analysis of those aspects of police and law enforcement procedures and techniques as these apply to local, state, and federal criminal statutes.
- 4528. Research and Statistics for Law Enforcement. (3).**  
Statistical and non-statistical approaches employed in contemporary law enforcement; review and analysis of current findings; practical applications derived from recurring deviant behavior. PREREQUISITE: Sociology 4522.
- 4530. Police Planning. (3).**  
An advanced study and analysis of plans relating to procedures, tactics, personnel, equipment, buildings, budget, and extra-departmental activities which the police administration encounters.
- 4531. Public Relations and the Police. (3).**  
The role of law enforcement personnel and administrators in police-community relations; the forms and possible approaches for improving communications with the public; the role of the police officer in the improvement of the public image.
- 4610. Population. (3). (417)**  
Population theories and policies; their definition and history. Trends in population growth; methods of population analysis, and trends in fertility and mortality. Emphasis on fertility, mortality, sex and age composition, and migration and their influences on population change.
- 4620. Human Ecology. (3). (444)**  
Spatial structure and land use patterns of urban, rural, and fringe areas; city growth, its spatial and communicative extension into suburban and rural areas, and its impact on the economy, values, and social organization of communities.
- 4710. Social Psychology. (3). (418)**  
A study of the social development of the individual and of the underlying sociological and psychological process of human behavior.
- 4720. Collective Behavior. (3). (412)**  
Emergence of collective behavior, spontaneous collectivities, social movements, social consequences of restrictive collective behavior.
- 4812. Race Relations. (3). (445)**  
A study of ethnic organization and interrelations with specific emphasis on the status of the Negro in American society, and the process of integration.
- 4830. Directed Individual Study. (1 to 4). (499)**  
Individually directed advanced reading and/or research in special areas of interest. PREREQUISITE: permission of department chairman.
- 4842. Sociology of Occupations and Professions. (3). (414)**  
Sociological analysis of the division of labor, occupational groupings, career patterns, and professional associations in modern American society.
- 4843. Human Relations in Business. (Same as Management 4420). (3). (415)**  
A study of the principles of human relations as applied to business.

**4851. Medical Sociology. (3).**

The contributions of sociology to medicine; the sociology of illness, particularly mental illness; practitioners, patients, and medical settings, particularly the modern hospital; the organization and sociology of the distribution of medical care; the status and the methods of research in medical sociology.

*Graduate Courses in Sociology: For course descriptions and further details of the graduate program, see The Bulletin of The Graduate School.*

ANTHROPOLOGY

**1100. Introduction to Physical Anthropology. (3). (211)**

Man's place in nature, human origins, the fossil record from archaeological excavations, the biological aspects of race.

**1200. Introduction to Cultural Anthropology. (3). (212)**

(formerly Society and Culture)

Theoretical frameworks within which social and cultural processes are analyzed, interpreted, and understood; comparative studies of human cultures.

**2211. Survey of Old World Ethnology. (3).**

Survey of major culture areas in Europe, Asia, Africa, and Oceania, placing these in historic perspective, and studying selected sample peoples in each area.

**2212. Survey of American Indian Ethnology. (3).**

Survey of major culture areas of North and South America, placing these in historic perspective, and studying selected sample peoples in each area.

**2312. Survey of Old World Archaeology. (3). (311)**

(formerly Survey of World Archaeology)

Human origins and culture history from the stone age through the rise of earliest civilization as revealed by comparative study of materials from abandoned occupation sites in Africa, Asia, and Europe. Last two weeks devoted to archaeological field techniques pointing toward summer field work.

**2313. Survey of American Indian Archaeology. (3). (312)**

Theories of ancient human migrations into the New World, development of major culture sequences as revealed by comparative analysis of materials from abandoned Indian habitations, emphasis on the rise of pre-Columbian civilization in Mesoamerica. Last two weeks devoted to archaeological methods.

**2321. Archaeological Field Techniques. (3). (221)**

Experience in field excavations conducted at Chucalissa Museum; preparation of specimens, use of survey instruments, photographing and keeping archaeological records, map making of small ground areas. Hours individually arranged for either one or both summer terms. **PREREQUISITE:** permission of department chairman.

**2322. Archaeological Field Techniques. (3). (221)**

A continuation of Anthropology 2321.

**3035. Indians of the Tennessee Area. (3).**

A survey of the archaeology and ethnology of the Southeast, with intensive study of the various Indian cultures of Tennessee and bordering states.

- 3111. Physical Anthropology and Human Paleontology. (3).**  
A comparative study of primate anatomy, physiology, and behavior; detailed examination of the Hominid fossil record; and a summation of population genetics and human variability.
- 3225. Ethnological Field Techniques. (3).**  
Methods of collecting and interpreting data pertaining to contemporary societies; personal problems involving conflicts in cross-cultural research.
- 3231. Ethnology of North America. (3).**  
Description and distribution of aboriginal culture-types of North America north of Mexico; comparisons and inter-relationships during the pre- and post-contact periods. PREREQUISITE: Anthropology 1200; Anthropology 1100 is recommended.
- 3232. Ethnology of Latin America. (3).**  
Description and distribution of aboriginal culture-types of South and Meso America; comparisons and inter-relationships during the pre- and post-contact periods. PREREQUISITE: Anthropology 1200; Anthropology 1100 is recommended.
- 3242. Ethnology of Africa. (3).**  
Description and distribution of aboriginal culture-types of Africa; comparisons and inter-relationships during the pre- and post-contact periods. PREREQUISITE: Anthropology 1200; Anthropology 1100 is recommended.
- 3252. Ethnology of Eurasia. (3).**  
Description and distribution of aboriginal culture-types of Europe, Asia, and India; comparisons and inter-relationships during the pre- and post-contact periods. PREREQUISITE: Anthropology 1200.
- 3272. Ethnology of Oceania. (3).**  
Description and distribution of aboriginal culture-types of Oceania (including Australia); comparisons and inter-relationships during the pre- and post-contact periods. PREREQUISITE: Anthropology 1200.
- 3331. Archeology of North America. (3).**  
Description and distribution of prehistoric cultural remains in North America north of Mexico. Discussion and comparison of the major regional sequences, extending from the earliest evidences of human occupation until historic times. PREREQUISITE: Anthropology 1200; Anthropology 1100 is recommended.
- 3332. Archeology of Latin America. (3).**  
Description and distribution of prehistoric cultural remains in South and Meso America, with emphasis on the Aztec, Maya, and Inca areas. PREREQUISITE: Anthropology 1200; Anthropology 1100 is recommended.
- 3342. Archeology of Africa. (3).**  
Description and distribution of prehistoric cultural remains in Africa; discussion and comparison of the major regional sequences, extending from the earliest evidences of human occupation until historic times. PREREQUISITE: Anthropology 1200.
- 3351. Archeology of Europe. (3).**  
Development of the various European civilizations and their influ-



ence and inter-relationships with other cultures throughout Europe and Eurasia. PREREQUISITE: Anthropology 1200.

**3352. Archeology of Asia. (3).**

Description and distribution of prehistoric cultural remains in Asia; discussion and comparison of the major regional sequences, extending from the earliest evidences of human occupation until historic times. PREREQUISITE: Anthropology 1200.

**3381. Research Techniques and Museum Operation I. (3). (314)**

Individual instruction with a focus on the methods of analysis and the planning of displays. PREREQUISITE: permission of department chairman.

**3382. Research Techniques and Museum Operation II. (3). (315)**

A continuation of Anthropology 3381.

**3411. Anthropological Linguistics. (3). (325)**

(formerly Mechanics of Communication)

Nature and usefulness of symbols, mechanisms by which they are communicated, relation of symbolic systems to thought and culture, comparative techniques used to reconstruct prehistoric languages.

**3811. Social and Ethnic Minorities. (3).**

(Same as Sociology 3811).

A comparative study of social and ethnic minorities in the United States and elsewhere with a focus on differences in cultural backgrounds, social relationships with the larger society; social, educational, and legal problems; factors contributing to satisfactory and unsatisfactory adjustments of minorities.

**4065. History of Anthropological Theory. (3).**

The growth of theory and method in anthropology leading to modern historical, sociological, and psychological interpretations.

**4251. Social Structures of Non-Literate Societies. (3).**

Comparative analysis of social structures and their functional relationships to other cultural institutions, with emphasis on family types, marriage patterns, and kinship. PREREQUISITE: Anthropology 1200 and at least one survey or area course in ethnology; or permission of instructor.

**4252. Economic Systems of Non-Literate Societies. (3).**

Comparative analysis of economic systems and their functional relationships to other cultural institutions; production, distribution, and consumption in non-literate groups; concepts of wealth, value, property, and ownership. PREREQUISITE: Anthropology 1200 and at least one survey or area course in ethnology; or permission of instructor.

**4253. Religious Systems in Non-Literate Societies. (3).**

Comparative analysis of religious systems and their functional relationships to other cultural institutions; inter-relations of myth, magic, and ritual; types of religious institutions and religious practitioners.

**4254. Culture Change in Non-Literate Society. (3).**

Internal and external factors causing change in the small-scale society; theories of cultural evolution; social changes involved in the emergence of civilization; changes involved in industrialization.

**4255. Political Systems in Non-Literate Societies. (3).**

Comparative analysis of political systems and their functional relationships to other cultural institutions; formation and segmentation of political structures; requisites of leadership and political control.

**4325. Archaeological Field Control. (3).**

Methods of dealing with archaeological field problems; individual instruction in collection, recording, and field analysis of archaeological data. PREREQUISITE: Anthropology 2321 and 2322, or permission of department chairman.

**4751. Culture and Personality in Non-Literate Society. (3).**

Comparison of factors involved in the analysis of personality as contrasted to culture; the interaction of these factors; problems of studying personality cross-culturally.

**4752. Applied Anthropology. (3).**

Application of anthropological knowledge and techniques to contemporary problems in government, industry, public health, and colonial and native administration. Emphasis on, but not limited to, contacts between industrial and non-industrial societies. PREREQUISITES: 12 semester hours of anthropology and permission of the instructor.

**4975. Directed Individual Readings. (2).**

Intensive guided survey of anthropological and related literature dealing with topics selected by advanced students and accepted by the staff. Compilation, synthesis, and evaluation of the published data; preparation for graduate level work, for students considering anthropology as a profession. Enrollment limited to anthropology majors and minors. PREREQUISITE: Permission of staff.

**4985. Directed Individual Research. (2).**

Intensive guided study of original data, in areas selected by advanced students and accepted by the staff. Collection and/or processing of data in physical anthropology, ethnology, archeology, and linguistics; description, classification, analysis, and synthesis. Preparation for publication. Enrollment limited to anthropology majors and minors. PREREQUISITE: Permission of staff.

**4995. Senior Seminar in Anthropology. (3).**

Problems in contemporary anthropology; may be offered in sections dealing with different topics; field trips and individual assignments.

## SPANISH

(See Modern Languages)

## SPECIAL EDUCATION

PROFESSOR LEO J. KELLY, *Chairman*

*Room 401, The College of Education Building*

Requirements for the major and minor are listed on page 166.

**4141. Introduction to Education of Children With Emotional Problems. (3).**

A course designed to describe the behavioral characteristics of children

with emotional problems. These characteristics will be discussed in terms of etiology, identification, behavior management and curricular planning.

- 4151. Education of Exceptional Children. (3). (480)**  
A survey course which deals with the general problems involved in the education of exceptional children.
- 4152. Working with Parents of Exceptional Children. (3).**  
This course is designed to teach the techniques which an educator might use in communicating with parents of exceptional children. It covers various means of interpreting school programs and handicapping conditions to parents in order to get maximum home reinforcement of the attitudes, skills and knowledge taught in school.
- 4162. Education of the Brain-Injured and Cerebral Palsied Child. (3). (482)**  
A study of the neurological mechanisms; the types of aphasia and their educational implications and adjustments; the types of cerebral palsy and their educational implications and remedies by use of special methods and materials; other physiological impairments (such as encephalitis) frequently encountered by teachers of special education; an investigation of the most satisfactory educational approaches to the rectification of these conditions.
- 4163. Introduction to Mental Retardation. (3).**  
A study of the historical treatment of the mentally retarded as well as etiology and characteristics of the mentally retarded. Methods of diagnosing, placing and working with mentally retarded pupils will be covered from the viewpoint of an inter-disciplinary approach.
- 4164. Curriculum Development and Techniques of Teaching Elementary Educable Mentally Retarded Children. (3).**  
This course is designed to give background information in curriculum approaches that have been used in teaching mentally retarded. There is a stress placed on the principles of curriculum development in order to encourage the coordination which is so important in developing a sequentially-related curriculum at the pre-school, primary, and intermediate levels. The approach advocated in this course will be centered around the construction and teaching of experience-centered units.
- 4165. Curriculum Development and Techniques of Teaching Secondary Educable Mentally Retarded Children. (3).**  
A course stressing the development of an experience-centered unit approach to teaching educable mentally retarded children at the junior high and senior high levels. Vocational assessment, working with other disciplines, personal development and strengthening deficiencies will be emphasized in the curriculum development.
- 4166. Programing for Trainable Mentally Retarded Children. (3).**  
This course covers diagnosis, classification, development of teaching materials, and techniques as well as working with community organizations in relation to public school, private school, community center or institutional program for trainable mentally retarded children.
- 4171. Education of Hospitalized and Homebound Children. (3). (483)**  
Orientation to the general and specific problems of the hospitalized and homebound child.

- 4172. Educational and Medical Aspects of Crippling and Special Health Conditions. (3). (484)**  
A detailed study of the various types of physically disabling conditions (poliomyelitis, cleft palate, arthritis, measles, and other commonly injurious conditions) which cause either temporary or permanent decreases in educational proficiency; special methods of instruction and suitable adaptations of materials for such afflicted children within the framework of the public school organization.
- 4174. Supervised Clinical Training in Educational Therapy. (6). (478)**  
Practical application of educational activities in the rehabilitation of patients with neuropsychiatric, orthopedic, neurological cardiac, pulmonary, and other general disabilities; included are such procedures as Braille, speech therapy, general educational development, literary training, and other vocational subjects.
- 4175. Principles and Procedures of Rehabilitation. (3).**  
A panorama of the principles and procedures of rehabilitation necessary for developing and coordinating community resources for the disabled.
- 4181. Methods and Materials for Teaching Visually Handicapped Children. (3). (487)**  
A course primarily designed for teachers of the partially-seeing and blind within the framework of public schools, consisting of study in the growth and development of visual imbalance, and the environment and educational implications of visual problems; the historical background of special programs in the education of the visually handicapped, and the adaptations of educational methods and materials to the teaching of such handicapped children.
- 4182. Introduction to the Teaching of Braille. (3). (488)**  
A course designed to give the basic fundamentals in Braille instruction, including the introduction of equipment for Braille writing, development of skill in the use of such equipment, the history and development of Braille and other instructional procedures for the blind, and mastery of the Nemeth Code of Mathematics, three-dimensional bulletin boards and equipment, and practicum in the use of these materials.
- 4183. Advanced Braille. (3). (489)**  
A course designed to complete the proficiency in the use of Braille writing by teachers of visually handicapped children. PREREQUISITE: Special Education 4182 or equivalent.
- 4192. Education of the Acoustically Handicapped Child. (3).**  
A course which emphasizes methods of teaching content subjects to deaf and hard-of-hearing children. The utilization of visual and auditory aids are included while special recognition is given the integration of the language arts with instruction of content materials.
- 4781. Workshop for Teaching Perceptually Handicapped Children. (3). (439)**  
A workshop of teacher-training in the area of perceptually handicapped children, (brain-injured, non-retarded), who demonstrate a learning and/or behavioral disorder due to a minor or moderate neurological impairment.



- 4881. Student Teaching with the Educable Mentally Retarded. (3).** (427)  
Orientation, observation, and teaching with mentally retarded pupils.  
PREREQUISITE: Education 4841 or 4821.
- 4882. Student Teaching with Pupils who have Crippling and Special Health Conditions. (3).** (428)  
Orientation, observation, and teaching with pupils who have crippling and special health conditions. PREREQUISITE: Education 4841 or 4821.
- 4883. Student Teaching with Trainable Mentally Retarded. (3 or 6).**  
Orientation, observation, and teaching with trainable mentally retarded pupils. PREREQUISITE: Special Education 4151, 4163, and 4166.

*(Graduate Courses in Special Education: Most of the special education courses described above may be taken for graduate credit; see The Bulletin of The Graduate School.)*

## SPEECH AND DRAMA

PROFESSOR HARRY AUSPRICH, *Chairman*  
*Room 143, Speech and Drama Building*

The Department of Speech and Drama offers majors in general speech; oral communication; radio, television, and film; speech pathology and audiology; and theatre and oral interpretation; the requirements for these majors and for the minor are listed on page 140.

Through its affiliation with the Memphis Speech and Hearing Center and television station WKNO, the University is able to offer its students the facilities of these institutions; members of the staff of the Speech and Hearing Center and WKNO teach courses on the campus in speech pathology, audiology, radio, television, and film.

NOTE: Students may take speech and drama laboratory courses (viz., 3301, 3401, 3501, and 3801) as often as advisers will allow. None of these courses may be repeated for the purpose of improving the grade originally given.

### INTRODUCTORY COURSES

- \*1011. Business Speech. (3).** (101)  
Basic principles of oral communication, with attention to the speaking situation of the business world.
- 1211. Voice and Diction. (3).** (121)  
Principles of effective voice usage. Emphasis on improving voice characteristics and diction.
- \*1311. Basic Principles of Public Speaking. (3).** (111)  
Adjustment to the speaking situation with emphasis on research, analysis, speech organization, and effective voice usage.
- 1411. Basic Oral Interpretation. (3).**  
Development of the voice as an instrument of expression. Study of basic interpretative material.

\* Credit may be earned in only one of the following courses: 1011, 1311.

- 1551. Introduction to Theatre. (3). (150)**  
A consideration of all the dramatic elements of the theatre from the viewpoint of the audience, designed to enhance and improve the student's appreciation of theatrical performances.

## THEATRE

- 2501. Stage Movement I. (2).**  
Basic stage movement. Development of the body as an instrument of expression.
- 2502. Stage Movement I. (2).**  
A continuation of Speech 2501. PREREQUISITE: Speech 2501.
- 2511. Stagecraft I. (3). (251)**  
A lecture-laboratory course covering basic elements of scenery construction, painting, and stage properties.
- 2512. Stagecraft I. (3).**  
A continuation of Speech 2511. Standard and special practices in construction and painting techniques for the preparation of scenery, including ground plans, working drawings, front and rear elevations. PREREQUISITE: Speech 2511.
- 2531. Acting I. (3). (253)**  
Introduction to the craft of acting. Elementary techniques and principles of the actor's art.
- 2532. Acting I. (3).**  
A continuation of Speech 2531.
- 2541. Stage Make-up. (2).**  
Fundamentals of straight and character make-up. The application of the principles governing line, color, and light and shade to make-up problems. Practical experience in make-up through various productions.  
*One lecture, two laboratory hours per week.*
- 3501. Theatre Laboratory. (1). (300-1)**  
Preparation for and participation in University dramatic activities. One hour credit each semester for three hours of supervised laboratory work per week. (See note on page 311).
- 3502. Stage Movement II. (2).**  
Movement studies of the body in developing impulses to rhythm and melodic patterns. PREREQUISITE: Speech 2502.
- 3503. Stage Movement II. (2).**  
A continuation of Speech 3502. PREREQUISITE: Speech 3502.
- 3511. Stagecraft II. (3).**  
Advanced studies of the scene technician's craft with emphasis on the creative use of modern materials and construction methods. PREREQUISITE: Speech 2512.
- 3512. Stagecraft II. (3).**  
A continuation of Speech 3511. PREREQUISITE: Speech 3511.
- 3521. Directing I. (3). (352)**  
Study of script analysis and directing principles. PREREQUISITE: Speech 3521.

- 3522. Directing I. (3).**  
A continuation of Speech 3521. Students direct short plays for public performance.
- 3531. Acting II. (3). (353)**  
The development of acting styles. Practice in scenes from period plays.
- 3532. Acting II. (3).**  
A continuation of Speech 3531. PREREQUISITE: Speech 3531.
- 3551. History of the Theatre. (3). (354)**  
A history and survey of drama from Aeschylus to Turgenev.
- 3552. History of the Theatre. (3). (355)**  
A history and survey of drama from Ibsen to Ionesco.
- 3561. Theatrical Design I. (3). (351)**  
Fundamentals of technical drawing and rendering for the theatre.
- 3562. Theatrical Design I. (3).**  
A continuation of Speech 3561. Historical styles in theatre design. PREREQUISITE: Speech 3561.
- 4011. Performance and Production I. (3-9).**  
Supervised work in actual university, community or professional theatre productions on an internship basis. Credit varies with amount of time and responsibility involved. May be repeated for a maximum of 18 semester hours of credit.
- 4501. Stage Movement III. (2).**  
A study of basic mime and pantomime techniques. PREREQUISITE: Speech 3503.
- 4502. Stage Movement III. (2).**  
A continuation of Speech 4501. Advanced mime and pantomime techniques. PREREQUISITE: Speech 4501.
- 4511. Stage Lighting I. (3). (452)**  
Study of elementary electricity and basic stage lighting techniques.
- 4512. Stage Lighting I. (3).**  
A continuation of Speech 4511. Advanced theatre lighting design and execution. PREREQUISITE: Speech 4511.
- 4531. Acting III. (3).**  
Acting problems with continued work in acting styles. Term length assignments to scenes designed to develop ensemble acting. PREREQUISITE: Speech 3532.
- 4532. Acting III. (3).**  
A continuation of Speech 4531.
- 4551. Theatre History. (3).**  
Special problems in theatre history: the men and ideas which have shaped the theatre of the western world from antiquity to the present.
- 4561. Stage Costuming I. (3). (451)**  
Study of basic costuming techniques.

- 4562. Stage Costuming I. (3).**  
A continuation of Speech 4561. Survey of historic dress and the planning and rendering of costume designs. PREREQUISITE: Speech 4561.
- 4563. Theatrical Design II. (3).**  
Advanced study of theatre design principles. PREREQUISITE: Speech 3562.
- 4564. Theatrical Design II. (3).**  
Advanced technical drawing and rendering for the theatre. PREREQUISITE: Speech 4563.
- 4571. Playwriting. (3). (457)**  
A study of the theory and principles of writing plays for the stage. Practice in writing either the short or long play.
- 4581. Dramatic Theory and Criticism. (3).**  
The major documents in dramatic theory and criticism from Aristotle to the present.
- 4591. Theatre Management. (3).**  
A study of basic boxoffice and publicity procedures for the theatre.

## ORAL INTERPRETATION

- 2411. The Art of Oral Interpretation. (3). (245)**  
A continuation of Speech 1411, with emphasis on more complex analysis and performance of the forms of literature.
- 2412. Advanced Oral Interpretation. (3).**  
A study of voice in developing impulses and responses to rhythm and melodic patterns in literature. PREREQUISITE: Speech 2411.
- 3401. Oral Interpretation Laboratory. (1). (300-3)**  
Preparation for and participation in oral interpretation activities, including experiments in individual and group forms such as the recital program and Readers Theatre. One hour credit each semester for three hours of supervised laboratory work per week. (See note on page 311.)
- 3451. Interpreter's Theatre. (3). (346)**  
Oral performance of prose fiction and narrative poetry.
- 4421. Interpretation of Poetry. (3).**  
Studies in the style and structure of poetry of specific types and periods, as related to the response and performance of the oral interpreter. PREREQUISITE: Speech 2411.
- 4431. Interpretation of Prose. (3).**  
Studies in the oral interpretation of prose fiction, with attention to various literary styles and structures. PREREQUISITE: Speech 2411.
- 4441. Interpretation of Drama. (3). (445)**  
Oral performance of scenes from classical and modern drama.

## ORAL COMMUNICATION

- 1781. Introduction to Oral Communication. (3).**  
Principles underlying all forms of spoken discourse; survey of careers in oral communication.



- 2311. Speech Composition. (3).**  
(formerly Public Speaking)  
Designed to improve understanding and skill in speech fundamentals with special attention to the effective oral use of language. Practice in speeches for special occasions and manuscript speaking. **PREREQUISITE:** Speech 1311 or permission of the instructor.
- 2321. Argumentation and Debate. (3). (231)**  
The principles of argumentation, analysis, evidence, and the organization of the argumentative discourse.
- 2331. Parliamentary Procedure and Group Leadership. (3). (232)**  
The study of the development of rules of conduct for deliberative bodies; practice and criticism in the use of parliamentary procedure; techniques of group leadership with special emphasis on clubs and small organizations.
- 3011. Advanced Business and Professional Speech. (3).**  
Study of communication problems occurring within business and industry as well as between business and the community.
- 3301. Forensics Laboratory. (1). (300-2)**  
Organized preparation for and participation in competitive speech activities including debate, discussion, original oratory, extemporaneous speaking, oral interpretation, and after-dinner speaking. One hour credit each semester for three hours of supervised laboratory work per week. (See note on page 311.)
- 3311. The Process of Oral Communication. (3).**  
(formerly Advanced Public Speaking).  
Exploration of the relationship among source, message, channel, and destination during oral communication; symbolization, attention, perception, retention, and response as each affects oral communication.
- 3341. Discussion. (3). (331)**  
Study and practice of the principles and techniques of discussion, dealing with current problems of wide interest and significance.
- 3371. Freedom and Responsibility of Speech. (3).**  
The development of freedom of speech as a Western value and the attendant problems of ethical practice, limitations, and responsibility.
- 4101. Contemporary Theories of Language. (3).**  
An examination of the influence of language upon behavior, the limitations of language as a communicative system, and the relationship between language and thought.
- 4341. Advanced Discussion. (3).**  
Advanced theory in the logical, psychological, and sociological investigation of issues in small groups. **PREREQUISITE:** Speech 3341.
- 4351. Persuasion. (3). (433)**  
Advanced theory of the psychology of speech, investigation of audience motivation, the theory of persuasive techniques, and practical application of all of these.
- 4361. History and Criticism of British Public Address. (3).**  
A study and analysis of British speakers and speaking from the 16th century to the present time. Emphasis will be placed on the speech situation, audience, issues and speakers. Such men as Fox, Pitt, Sheridan, Burke, Disraeli, and Churchill will be considered.

- 4362. History and Criticism of American Public Address. (3).**  
An analysis of political, religious and social speaking from colonial times to the present. Such men as Clay, Emerson, Lincoln, Webster, and the Roosevelts will be considered.
- 4365. The Tradition of Southern Oratory. (3).**  
Notable speakers of the South, the rhetorical characteristics of political campaigns and movements, and the impact of different forms of speech-making upon the Southern social structure.
- 4366. Undergraduate Seminar in Oral Communication. (3).**  
Stresses individual work, preparation of papers and reports, and extensive class discussion; topics vary from semester to semester. May be repeated up to six hours.
- 4371. Critical Analysis of Oral Communication. (3). (435)**  
(formerly Speech Criticism).  
Problems in the theory and criticism of classical and modern rhetorical works; application of the principles of rhetoric to the critical evaluations of current public speaking practice.

#### RADIO, TELEVISION, AND FILM

- 2811. Fundamentals of Broadcasting. (3). (280)**  
A survey of the development of AM and FM radio and television with emphasis on structure, programming, and control; the role of radio and television in education, entertainment, and public service; methods used in evaluating audience interest and motivation.
- 2821. Radio Production I. (3). (281)**  
A study of the principles of radio performance and production with specific instruction in audio, microphones, role of the radio director, acting, announcing, and the integration of these elements into the total radio production. PREREQUISITE: Speech 2811.
- 2822. Radio Production II. (3). (282)**  
Advanced training in radio production with emphasis on the documentary, dramatic program, and special events format. The programs will be taped and played on local radio stations. PREREQUISITES: Speech 2811 and 2821.
- 2831. Radio and Television Announcing. (3).**  
Concentrated work in basic techniques of announcing for radio and television. Different announcing formats will be considered: commercials, news, sports, weather, and special events. PREREQUISITE: Speech 2811.
- 3801. Radio/Television Laboratory. (1). (300-4)**  
Preparation for and participation in all phases of radio and television. One hour credit each semester for three hours of supervised laboratory work per week. (See note on page 311.)
- 3841. Television Production I. (3). (381)**  
The elements of television production techniques including camera, audio, lighting, staging, graphics, and on-camera appearance. Practical experience of class production of television programs utilizing the facilities of WKNO-TV. PREREQUISITE: Speech 2811 and 2821.

- 3842. Television Production II. (3). (382)**  
Techniques of television production including the producing and directing of television programs at WKNO-TV. PREREQUISITE: Speech 3841, or permission of the instructor.
- 3851. Television Performance. (3). (383)**  
Problems of the television performer; adaptations in composition and interpretation which the medium requires of the announcer, narrator, master of ceremonies, and actor. Performance situations designed to aid in the development of performance skills. PREREQUISITE: Speech 2811.
- 3861. Radio and Television Dramatic Writing. (3). (384)**  
Study and practice in writing for the broadcast media. Emphasis is placed on writing unit programs in dramatic form, including adaptations, documentaries, and original plays. PREREQUISITE: Speech 3841, or permission of instructor.
- 4841. Television Production III. (3). (481)**  
An intensive study of the more advanced techniques of television production and direction. Special emphasis on the dramatic and children's formats with regard to their unique production problems. PREREQUISITE: Speech 3842.
- 4871. Television Management and Programming. (3). (482)**  
A study of the principles of broadcast management and programming with special attention to station operation, the role of the producer-director, and the productions of local programs. PREREQUISITE: Speech 2811.

## PATHOLOGY AND AUDIOLOGY

*The first three courses are prerequisite to all other courses in speech pathology and audiology.*

- 2611. Phonetics. (3). (261)**  
Knowledge and practice in the use of the International Phonetic Alphabet; consideration of the physiology of the ear and vocal mechanism.
- 2621. Principles and Methods of Speech Correction. (3). (262)**  
An introduction to the principles and methods of correcting speech and hearing disorders, with scheduled observations and demonstrations at the Memphis Speech and Hearing Center.
- 2631. Audiology. (3). (263)**  
An introductory course dealing with the theory and technique practiced in audiometry and speech reading.
- 3601. Clinical Speech and Hearing Practicum. (1).**  
Supervised experience in the evaluation and treatment of children and adults with communicative handicaps. Conducted in the Memphis State University Speech and Hearing Clinic, the Memphis Speech and Hearing Center, and other community agencies.
- 3602. Clinical Speech and Hearing Practicum. (1).**  
A continuation of Speech 3601.
- 3603. Clinical Speech and Hearing Practicum. (1).**  
A continuation of Speech 3602.

- 3604. Clinical Speech and Hearing Practicum. (1).**  
A continuation of Speech 3603.
- 3631. Auditory Training and Speech Reading. (3). (364)**  
Evaluation of hearing losses by means of speech audiometry; methods in auditory training; methods in lip-reading training.
- 3641. Communication: Anatomy and Physiology. (3). (361)**  
An introduction to the anatomy and physiology of the hearing and vocal mechanism with attention to pathology affecting speech and voice.
- 3651. Functional Speech Disorders. (3). (362)**  
A detailed study of the techniques and methods of correcting speech disorders which frequently have no organic basis. Those disorders emphasized most are stuttering, delayed speech, and poor articulation. Observations in the Memphis Speech and Hearing Center.
- 3661. Organic Speech Disorders. (3). (363)**  
A detailed study of the techniques and methods of correcting speech disorders of organic origin. The disorders most emphasizing are cleft palate, aphasia, voice problems, cerebral palsy, and language disorders. Observation in the Memphis Speech and Hearing Center. **PREREQUISITE:** Speech 3641.
- 3681. Management of the Pre-School Deaf Child. (3).**  
A study of the language development of the normal and hearing-handicapped child with emphasis on prelinguistic utterances of infancy, language comprehension, and the role of gesture language. Study of the effects of a hearing impairment upon the mental, social, and emotional development of the pre-school child. **PREREQUISITE:** Speech 3631.
- 4631. Audiometric Instrumentation. (3).**  
A detailed study of the special problems of audiometric construction, instrumentation and methods of evaluating equipment. Special attention will be given to the purposes of audiometers, hearing aids, and testing rooms in audiometric instrumentation.
- 4632. Advanced Audiology. (3).**  
A thorough study of clinical tests in audiology which include pre- and post-operative techniques, electrodermal audiometry, electro-encephalographic audiometry, and automatic autometry. Special attention will also be given to neurologic implications in audiology and to the theory and testing in advanced audiological evaluation.
- 4671. Speech Pathology. (3).**  
Steps involved in the differential diagnosis of speech disorders, establishing etiology, and planning a corrective program. Observation of diagnostic sessions in the Memphis Speech and Hearing Center. The contributions of surgery, medicine, psychology, and other related disciplines.

## SPEECH EDUCATION

- 2911. Speech for the Elementary Classroom Teacher. (3).**  
A course designed to improve the speech of teachers. Emphasis is on voice and diction, classroom speaking, and oral interpretation of literature.



- 4921. Play Production for Secondary Schools. (3). (492)**  
A survey of the problems of the play director in high school. The course considers: choosing the play, casting, directing, technical aspects of production; then relates these items to the student, the school, and the community.
- 4922. Directing the Forensics Program. (3). (493)**  
Designed for the teacher charged with the responsibility of developing and directing interscholastic or intercollegiate competitive speech programs; the study of the historical background for such programs, organizing techniques, recruiting, tournament direction, and other related concerns.

*Graduate courses in Speech and Drama: For course descriptions and further details of the graduate program, see The Bulletin of The Graduate School.*

## TECHNOLOGY

ASSOCIATE PROFESSOR W. T. BROOKS, *Director*  
*Room 100, Technology Building*

See page 172 for majors and minors in Technology.

### ARCHITECTURAL TECHNOLOGY

- 1551. Architectural Design. (3).**  
Drawing methods as applied to architectural practice.  
*Two lecture, two laboratory hours per week.*
- 2551. Industrial Design. (3). (252)**  
Theory and application of design and principles in industry. PREREQUISITE: Technology 1511 or 1551.
- 2555. Architectural Drawing I. (3).**  
Planning and executing residential preliminary and working drawings, details, and specifications. PREREQUISITE: Technology 1551.  
*One lecture, four laboratory hours per week.*
- 2561. Constructive Design. (3).**  
Laboratory experience in three-dimensional design for both handcraft and mass production. Woods, metals, and plastics are basic media for work with both models and full-scale design. PREREQUISITE: Technology 2551.  
*One lecture, four laboratory hours per week.*
- 3401. Strength of Materials. (3).**  
Analysis and study of structural materials. PREREQUISITE: Technology 1411 and Mathematics 1212.
- 3471. Structural Design. (3).**  
Design of commercial and residential buildings with emphasis on uses of steel, wood, and masonry. PREREQUISITE: Technology 3401 and 3411.
- 3521. Architectural Model Making. (3).**  
Continuation of Technology 2555, including pictorial representations, model building, and furnishings design. PREREQUISITE: Technology 2555.

**4451. Architectural Drawings II. (3).**

Planning and developing a complete set of working drawings for a commercial building, including architectural and structural details. PREREQUISITE: Technology 2555 or approval of adviser.

*Two lecture, two laboratory hours per week.*

## CONSTRUCTION TECHNOLOGY

**1451. Introduction to Surveying. (3). (145)**

Surveying practices, calculations, and use of topographical conventions. PREREQUISITES: Technology 1411 and 1511, and Mathematics 1212 or consent of instructor.

**2451. Construction Surveying. (3). (245)**

Study of construction layouts and site locations. PREREQUISITE: Technology 1451.

*One lecture, four laboratory hours per week.*

**2591. Topographical Drafting and Surveying. (3).**

Study of surveying and drafting conventions as used by the civil engineer. PREREQUISITE: Technology 1451.

*Two lecture, two laboratory hours per week.*

**3431. Masonry Products. (3). (433)**

Study of cements, concrete, stone, and clay building materials. PREREQUISITE: Technology 3411.

*Two lecture, two laboratory hours per week.*

**3451. Route Surveying. (3). (345)**

Study of surveying practices as applied to streets, roads, and highways. PREREQUISITE: Technology 1451.

*One lecture, four laboratory hours per week.*

**3491. Estimating. (3). (355)**

Study and practice of specifications, bidding procedures, and estimating. PREREQUISITE: Technology 2555.

**3531. Mechanical Equipment in Construction I. (3).**

Studies of electrical and thermal services for commercial and residential structures. PREREQUISITE: Technology 1551 or 2555.

**3532. Mechanical Equipment in Construction II. (3).**

Continuation of Technology 3531, with emphasis on the accoustical, sanitary, and water services for commercial and residential structures. PREREQUISITE: Technology 3531.

## DRAFTING AND DESIGN TECHNOLOGY

**1421. Interpretation of Technical Drawing. (3). (142)**

Various types of drawings as techniques of communication.

**1511. Graphics I. (3). (151)**

Basic drafting practices in the use of instruments, theory of projections, and working drawings.

*One lecture, four laboratory hours per week.*

**1521. Graphics II. (3). (152)**

Continuation of Technology 1511, including basic space relationships

of points, lines, and surfaces. PREREQUISITE: two units of high school drafting, or Technology 1511.

*One lecture, four laboratory hours per week.*

**2511. Descriptive Geometry. (3). (251)**

Representation and space relations of points, lines, and plane intersections.

*One lecture, four laboratory hours per week.*

**2531. Sheet Metal Drafting. (3). (253)**

Theory and application of principles of lofting, including parallel line, radial, and triangulation methods of development. PREREQUISITE: Technology 2511.

*One lecture, four laboratory hours per week.*

**3571. Machine Design. (3). (357)**

Study and design of basic machine elements. PREREQUISITE: Technology 2511.

*One lecture, four laboratory hours per week.*

**3591. Tool Design. (3). (359)**

Study and design of gages, jigs, fixtures, and their applications in manufacturing processes. PREREQUISITE: Technology 3421 and Technology 3571.

*Two lecture, two laboratory hours per week.*

**ELECTRONICS TECHNOLOGY**

**1811. Electronics Fabrication. (3).**

Construction practices of the electronics industry, including electrical drafting, correct use of tools and equipment, processes and techniques.

*One lecture, four laboratory hours per week.*

**2411. Instrumentation and Testing. (3).**

Studies of testing procedures, methods, and equipment as applied to quality control. PREREQUISITE: Technology 1411 and 1511.

**2811. Basic Electronics. (3). (281)**

Study of history, theory, laws and formula of electronics as related to direct and alternating current, magnetism, motors, transformers. PREREQUISITE: Technology 1411, 1811, and Mathematics 1212 or equal.

*Two lecture, two laboratory hours per week.*

**2821. Intermediate Electronics. (3). (282)**

A continuation of Technology 2811, with emphasis on vacuum tubes, power supplies, amplifiers, oscillators, and test equipment. PREREQUISITE: two units of high school electronics or Technology 2811.

*Two lecture, two laboratory hours per week.*

**3811. Electronic Communications. (3). (381)**

Study of transmission and reception of radio signals, including antennas, transmission lines, modulation, and demodulation. PREREQUISITE: Technology 2821.

*Two lecture, two laboratory hours per week.*

**3821. Industrial Electronics. (3). (382)**

Study of electronics in industry, with emphasis on motor controls, high frequency heating, and electronic instrumentation. PREREQUISITE: Technology 2821.

**4811. Transistors. (3).**

Study of transistor theory and its application to circuits. PREREQUISITE: Technology 3811 or 3821.

**4831. Computer Programming in Technology. (3).**

Applications of computers for the solution of problems in the area of technology. PREREQUISITE: Mathematics minor.

*Two lecture, two laboratory hours per week.*

**4832. Digital Circuits. (3).**

Principles of logic circuits, binary arithmetic, counter circuits, and memory circuits as used in modern computer systems. PREREQUISITE: Technology 4811.

*Two lecture, two laboratory hours per week.*

## INDUSTRIAL ARTS EDUCATION

**2911. Foundations of Industrial Education. (3). (291)**

Study of the development, objectives, and current trends of industrial arts and vocational education; required for teaching endorsement in Industrial Arts. PREREQUISITES: Two of the following courses: Education 2011, 2111, 3121.

**3551. Drafting for Teachers. (3).**

Study of specific problems of the drafting teacher with emphasis on selection of content and activities. PREREQUISITE: Nine hours of drafting, with Education major or minor.

*One lecture, four laboratory hours per week.*

**3651. Woodwork for Teachers. (3).**

Study of problems of the woodworking teacher, with emphasis on the selection of content and activities. PREREQUISITE: Nine hours of woodwork, with Education major or minor.

*One lecture, four laboratory hours per week.*

**3751. Metalwork for Teachers. (3).**

Study of problems of the metalwork teacher, with emphasis on the selection of content and activities. PREREQUISITE: Nine hours of metalwork with Education major or minor.

*One lecture, four laboratory hours per week.*

**3831. Survey of Electronics. (3).**

Brief coverage of applied electronics for prospective teachers. PREREQUISITE: Technology 2821, with Education major or minor.

*Two lecture, two laboratory hours per week.*

**4451. Clinical Practice in Manual Arts Therapy. (6). (435)**

Supervised clinical practice in the Physical Medicine and Rehabilitation Service at Veterans Administration Hospital, Memphis. PREREQUISITE: Senior classification, with major in Industrial Arts Education.

**4461. Organization of the General Shop. (3). (436)**

Study of problems dealing with the selection and organization of general shop activities. PREREQUISITE: Industrial Arts Education major or minor with junior classification.

*One lecture, four laboratory hours per week.*



**4362. General Shop Applications. (3).**

This course deals with the implementation of the philosophy of the general shop with emphasis on curriculum planning. **PREREQUISITE:** Industrial Arts Education 4361.

**4371. Maintenance. (3). (372)**

Practices in selection and care of tools, both hand and machine. **PREREQUISITE:** Industrial Arts Education major or minor.

*One lecture, four laboratory hours per week.*

**4375. Crafts for Teachers. (3).**

Study and experiences with craft materials. **PREREQUISITE:** Education major or minor, with junior classification.

*One lecture, four laboratory hours per week.*

## INDUSTRIAL SAFETY

**3385. Basic Driver Education and Traffic Safety. (3). (335)**

Critical analysis of traffic accidents, attitude factors, essential knowledge of automobile operations and traffic laws and regulations; laboratory experiences for developing driving skills. **PREREQUISITES:** Valid driver's license, two years driving experience.

*Two lecture, two laboratory hours per week.*

**3386. Industrial Safety. (3). (437)**

Study of industrial hazards and safety procedures.

**3387. Construction Safety. (3).**

Study of hazards and their control as related to the construction industry. **PREREQUISITE:** Technology 3386.

**4385. Advanced Driver Education and Traffic Safety. (3).**

Designed to give the student advanced professional preparation to meet the traffic safety needs of schools and communities. Included will be a review of relevant research as it relates to accident causation, teacher preparation, administration and supervision of driver and traffic safety education. **PREREQUISITE:** Technology 3385, or equivalent.

*Two lecture, two laboratory hours per week.*

**4951. Fire Safety Problems. (1). (336-A)****4952. Chemical Safety Problems. (1). (336-B)****4953. Electrical Safety Problems. (1). (336-C)****4954. Traffic Safety Problems. (1). (336-D)**

## MANUFACTURING TECHNOLOGY

**1711. Metalwork I. (3). (171)**

Basic metalworking processes.

*One lecture, four laboratory hours per week.*

**2711. Welding. (3). (271)**

Techniques of gas, electric, and shielded arc welding. **PREREQUISITE:** 2 units of high school metalwork or Technology 1711.

*One lecture, four laboratory hours per week.*

2721. **Foundry. (3).** (272)  
Study and practice of casting non-ferrous metals. PREREQUISITE: 2 units of high school woodworking or Technology 1611.  
*One lecture, four laboratory hours per week.*
3421. **Manufacturing Processes I. (3).** (342)  
Study of manufacturing equipment and its uses.
3422. **Manufacturing Processes II. (3).**  
Continuation of Technology 3421, with emphasis on abrasives and machining processes. PREREQUISITE: Technology 3421.
3731. **Metallurgy. (3).** (373)  
Study and testing of metals and metal products. PREREQUISITE: Technology 3411.
4471. **Production Control. (3).** (447)  
Study of the elements of production and their coordination emphasized by visits to industrial plants.
4472. **Production Methods. (3).** (442)  
Practice in wood and/or metal production procedures. PREREQUISITE or COREQUISITE: Technology 4471.
4481. **Plant Layout. (3).** (448)  
Study of industrial plants, with emphasis on floor plans and placement of facilities. PREREQUISITE: Technology 4471.
4491. **Time and Motion Analysis. (3).** (449)  
Work simplification, including analysis as applied in time and motion. PREREQUISITE: Technology 4471.

## WOOD TECHNOLOGY

1611. **Woodwork I. (3).** (161)  
Basic woodworking processes.  
*One lecture, four laboratory hours per week.*
2611. **Woodwork II. (3).** (261)  
Continuation of Technology 1611 with emphasis on turning, laminating, and bending practices. PREREQUISITE: 2 units of high school woodwork or Technology 1611.  
*One lecture, four laboratory hours per week.*
2651. **Survey of Forestry. (3).**  
An introduction to forestry as it relates to the properties and utilization of woods.
3611. **Woodwork III. (3).** (361)  
Woodworking machines with emphasis on special operations. PREREQUISITE: Technology 1611.  
*One lecture, four laboratory hours per week.*
3631. **Forestry Products. (3).** (363)  
Study and testing of wood and forest products. PREREQUISITE: Technology 3411.
4661. **Forest Resources. (3).**  
Study of the relationship of forest products to the economy of the

region. PREREQUISITE: 6 hours Economics and junior classification in Wood Technology major.

SUPPORTING COURSES

1411. **Introduction to Technology.** (3). (141)

An introduction to technology in industry, with emphasis on the use of references, the slide rule, precision measuring instruments, and systems of mensuration.

2431. **Technical Report Writing.** (3).

Studies of fundamentals of technical report writing; emphasis is placed on the use of graphs, charts, and drawings as used in the communication of technical information. PREREQUISITE: Technology 1511 and English 1102.

3411. **Industrial Materials.** (3). (341)

Study of materials.

3621. **Upholstery.** (3). (362)

Fundamentals of upholstery. PREREQUISITE: Technology 1611 or 3611.

*One lecture, four laboratory hours per week.*

4381. **Principles of Supervision.** (3). (438)

Study of the functions of supervisory personnel.

4944. **Problems in Technology.** (3). (434)

Study and research in a specific area. PREREQUISITE: Senior classification for majors and minors in Technology who can offer satisfactory evidence of being qualified to benefit by the course.

## VOCATIONAL AND TECHNICAL EDUCATION

(See DISTRIBUTIVE EDUCATION)





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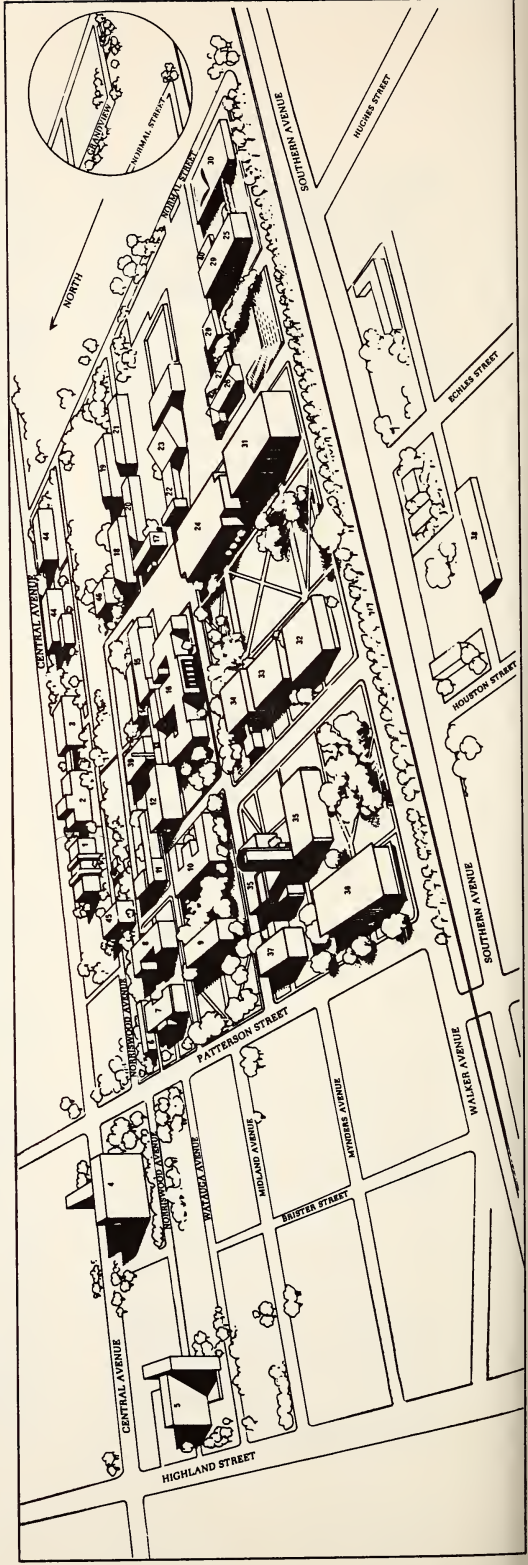
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| 2. Speech and Drama Building       | 28. Engineering Mechanics Lab                       | 37. Johnson Hall                  |
| 3. Music Building                  | 29. The College of Education Building               | 38. Football Training Building    |
| 4. Central Towers                  | 30. University Campus School                        | 39. Heating Plant                 |
| 5. Highland Towers                 | 31. J. Millard Smith Chemistry Building             | 40. Athletic Office               |
| 6. Panhellenic Building            | 32. Buford Ellington Biological Sciences Building   | 41. Alumni House                  |
| 7. Nellie Angel Smith Hall         | 33. Frank G. Clement Humanities Building            | 42. Faculty Cafeteria             |
| 8. Rawls Hall                      | 34. The College of Business Administration Building | 43. President's Home              |
| 9. West Hall                       | 35. University Library                              | 44. Engineering*                  |
| 10. Mynders Hall                   |   | 45. Psychology Building*          |
| 11. Industrial Technology Building |   | 46. Student Health Center*        |
| 12. Jones Hall                     |   |                                   |
| 13. The Cafeteria                  |   |                                   |

\*Completion Expected in 1968.







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