MACALESTER COLLEGE BULLETIN

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1962–1963
Macalister College
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COLLEGE CALENDAR FOR 1962-1963

1962

September 14
College dormitories open, Friday noon
September 15-19
Freshman orientation
September 17-19
Registration and validation, Monday noon through Wednesday
September 20
Classes begin, 8:00 a.m.
October 13
Homecoming
November 1-7
Mid-semester tests
November 12
Grades due
November 21 (noon)-26
Thanksgiving recess
December 21
Friday, 5:20 p.m., Christmas recess begins

1963

January 7
Classes resume, 8:00 a.m.
January 18
Reading Day
January 19-26
Final examinations
January 26
First semester ends
January 29
Registration for new and transfer students
January 30
Second semester begins
March 21-27
Mid-semester tests
April 1
Grades due
April 5
5:30 p.m., Easter recess begins
April 16
8:00 a.m., Classes resume
May 21
Reading Day
May 22-31
Final examinations
May 30
Memorial Day. No examinations
June 1
Alumni Day
June 2
Baccalaureate
June 3
Commencement

Summer Session, 1963

June 10-August 2
Located in Saint Paul, Minnesota, in the Macalester Park residence section, equidistant from the business areas of Saint Paul and Minneapolis.

Chartered in 1874, as a college of liberal arts and sciences under Christian auspices. Its alumni now number 8,374 and have served the nation in every useful vocation and for the highest purposes. By such fruits, the college is known.

Providing for students a broad, general education for citizenship, sound vocational usefulness, adequate course preparation for professional schools, and practical training in the Christian ideals of service. The college awards at the end of four years of successful educational experience the degree of Bachelor of Arts or the degree of Bachelor of Science. The college also awards the degree of Master in Education to those who complete the requirements of the fifth year course.

Maintaining a campus life of friendship and democracy, in which students and faculty share experiences in the joint management of community life.

Fully accredited as a member by the North Central Association of Colleges and Secondary Schools and the National Council for Accreditation of Teacher Education, Macalester College is also a member of the Association of American Colleges, the Presbyterian College Union, the Minnesota Association of Colleges, and the American Association of Colleges for Teacher Education.
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COLLEGE PERSONNEL

Board of Trustees

OFFICERS

FREDERICK L. DEMING .................................................. President
A. B. JACKSON .............................................................. Vice-President
LOUIS F. WEYAND .......................................................... Vice-President
DAVID J. WINTON .......................................................... Vice-President
OAKLEY R. TRIPP ............................................................ Secretary
GEORGE A. MAIRS, JR. ...................................................... Treasurer

JOHN C. BENSON ......................................................... Minneapolis
MRS. LEONARD G. CARPENTER ........................................ Crystal Bay, Lake Minnetonka
A. L. COLE ........................................................................ Greenwich, Connecticut
ALBERT H. DAGGETT ...................................................... Saint Paul
GEORGE D. DAYTON, II .................................................... Minneapolis
FREDERICK L. DEMING .................................................... Minneapolis
CARL B. DRAKE, JR. ............................................................ Saint Paul
MRS. WALTER B. DRISCOLL ............................................. Saint Paul
WILBUR E. ELSTON ......................................................... Minneapolis
ELMER E. ENGELBERT ...................................................... Saint Paul
BENJAMIN G. GRIGGS ..................................................... Saint Paul
JAMES C. HARRIS ............................................................. Minneapolis
ANDREW W. HOBART* ..................................................... Minneapolis
JOHN S. HOLL ................................................................. Saint Paul
A. B. JACKSON ............................................................... Saint Paul
HOWARD M. JAMES ......................................................... Saint James
MRS. CARL W. JONES ........................................................ Minneapolis
GEORGE P. LEONARD ........................................................ Los Altos, California
N. LOGAN LEVEN, M.D.* ................................................ Saint Paul
REV. ARNOLD H. LOWE, D.D. ............................................. Minneapolis
DONALD L. MACGREGOR ............................................... Saint Paul
CARGILL MACMILLAN, JR. .............................................. Wayzata
GEORGE A. MAIRS, JR. ..................................................... Saint Paul
MILTON D. MASON* ........................................................ Mankato
RICHARD ORDWAY ........................................................ Saint Paul

* Alumni Representative
The Development Council

CHAIRMAN
Richard Ordway

ANNUAL GIVING
Chester M. Tobin
General Chairman

FOUNDATIONS
John C. Benson
Albert L. Cole
Co-Chairmen

SPECIAL GIFTS
John S. Holl
St. Paul Chairman
George D. Dayton II
Minneapolis Chairman

DEFERRED GIVING
H. William Blake
General Chairman
Earl T. Winget, Jr.
Associate Chairman

APPRECIATION AND SPECIAL OCCASIONS
Mrs. Walter W. Walker
General Chairman
Administration

Harvey Mitchell Rice, A.B., M.A., Ph.D., LL.D., President
Lucius Garvin, A.B., A.M., Ph.D., Dean
Gareth R. Olson, B.S., M.Ed., Ph.D., Assistant Dean in the Office of the Dean of the College
John Maxwell Adams, B.A., B.D., D.D., Chaplain
Russell Wigfield, B.A., B.D., Assistant Chaplain
Fred P. Kramer, B.B.A., M.S., Ph.D., Dean of Students
Milton L. Smith, A.B., M.S., Director of Development and Public Relations
**Donovan J. Allen, B.A., M.A., Associate Dean of Students
Sue Lund, B.A., M.A., Associate Dean of Students
David S. Taylor, B.S., M.S., Assistant Dean of Students
Fernam N. Budolfson, Business Officer
A. Phillips Beedon, B.A., M.A., Associate Director of Development
Richard L. Desmond, B.S.L., LL.B., Associate Director of Development
John W. Seale, B.S., M.Ed., Associate Director of Development
James F. Holly, B.A., B.S., M.A., Librarian
William H. A. Watson, M.D., Consulting Physician
Clifford J. Caine, B.A., LL.B., Director of Student Union; Coordinator of Men's Residence Halls
Homer J. E. Townsend, B.S., M.Ed., Assistant to the President
Harry W. Morgan, B.A., Special Assistant to the President; Director, Ambassadors for Friendship
Richard Bruce Dierenfield, B.A., M.Ed., Ed.D., Director of Evening Session
H. Arnold Holtz, B.S., M.A., Ph.D., Director of Summer Session
Ivan C. Burg, B.A., Director of Publicity
William H. Gramenz, B.S., M.S., Ed.D., Director of Admissions
Charles T. Miller, B.A., M.S., Executive Assistant to the President
George E. Scotton, B.A., Assistant Director of Admissions
Wallace J. Berglund, B.A., Admissions Counselor
Donald R. Hober, A.B., Admissions Counselor
Howard Y. Williams, Jr., B.A., M.A., M.Ed., Director of Teacher Placement
Mrs. Dorothy Grimmell, Registrar
Lawrence A. Young, B.A., Director of Counseling and Testing

**On leave of absence 1961–1962**
MACALESTER COLLEGE

ALFRED K. SCHARLEMMANN, Comptroller
LLOYD J. PETITZMAN, B.A., Alumni Secretary
RICHARD E. BRUDOS, B.S., Acting Director of Audio-Visual Education
DOROTHY JACOBSON, R.N., Director of Health Center
MARMER L. DAY, B.A., Coordinator of Special Events, Development Council
MRS. IRMA GOWANS, B.A., Administrative Assistant, Admissions Office
MRS. MAREN NEWELL, Administrative Assistant, Alumni Office

College Faculty
1961-1962

Emeritus

HUGH STUART ALEXANDER, Professor of Geology (1906)†
B.A., Macalester College, 1899; M.A., University of Minnesota, 1905; Ph.D., University of Minnesota, 1931.

MARGARET M. DOTY, Dean of Women (1920)
B.A., Macalester College, 1914; M.A., Columbia University, 1927.

KENNETH LEEDS HOLMES, Professor of History (1925)
B.A., Yale University, 1917; M.A., University of Louisville, 1925.

CARL A. JENSEN, Professor of Music (1925)

EDWIN KAGIN, Professor of Religion (1926)
B.A., Centre College, 1904; B.D., Louisville Presbyterian Seminary, 1907; Th.M., Princeton Seminary, 1922; M.A., Princeton University, 1923; D.D., Centre College, 1937; D.R.E., Boston University, 1940.

JOHN MAXWELL ADAMS, Chaplain, Professor of Religion (1947)
B.A., Wabash College, 1923; B.D., McCormick Theological Seminary, 1926; D.D. Alfred University, 1940.

YAHYA ARMAGANI, Professor of History and Religion (1946)
B.A., College of Emporia, 1930; Th.B., Princeton Theological Seminary, 1933; M.A., Princeton University, 1933; Ph.D., Princeton University, 1939.

PAUL MCCOY BERRY, Professor of Sociology (1946)
B.A., Pasadena College, 1931; M.A., College of the Pacific, 1932; Ph.D., University of Southern California, 1959.

† Date in parenthesis indicates year of first appointment to Macalester College.
CHARLES M. BRADEN, Professor of Mathematics (1956)
B.S., Northwestern University, 1939; M.S., University of Minnesota, 1950; Ph.D., University of Minnesota, 1957.

J. DONALD BUTLER, James Wallace Professor of Religion (1961)
A.B., University of Omaha, 1929; M.R.E., The Biblical Seminary of New York, 1933; Ph.D., New York University, 1937.

EZRA JOHN CAMP, Professor of Mathematics (1937)
B.A., Goshen College, 1928; M.S., University of Chicago, 1932; Ph.D., University of Chicago, 1935.

ANTHONY CAPONI, Professor of Art (1949)

E. LOUISE CURTIS, Professor of Education (1953)
B.A., Iowa State Teachers College, 1937; M.A., State University of Iowa, 1942; Ph.D., University of Minnesota, 1955.

JOHN HUNTLEY DUPRE, Professor of History and Political Science (1946)
B.A., Ohio State University, 1914; LL.B., 1916; M.A., 1927; Ph.D., 1932.

DR. JESSE E. EDWARDS, Professor of Medical Technology (1960)
B.S., Tufts College, 1932; M.D., Tufts College Medical School, 1935.

*RIKUTARO FUKUDA, Whitney-Fulbright Visiting Professor (1961)
B.A., Tokyo Higher Normal School, 1927; M.A., Tokyo University, 1940.

LUCIUS GARVIN, Dean of the College, Professor of Philosophy (1961)
A.B., Brown University, 1928; A.M., Brown University, 1929; Ph.D., Brown University, 1933.

WALDO S. GLOCK, Professor of Geology (1948)
B.A., State University of Iowa, 1920; Ph.D., Yale University, 1925.

RUSSELL BYRON HASTINGS, Professor of Physics (1929)
B.A., Clark University, 1924; M.A., 1925.

THOMAS E. HILL, Elizabeth Sarah Bloedel Professor of Philosophy (1946)
B.A., Davidson College, 1929; M.A., University of Richmond, 1934; B.D., Union Theological Seminary, 1932; Ph.D., University of Edinburgh, 1937.

H. ARNOLD HOLTZ, Professor of Education and Director of Summer Session (1946)
B.S., State Teachers College, Superior, Wisconsin, 1940; M.A., University of Minnesota, 1944; Ph.D., University of Minnesota, 1959.

* First Semester only
*** On Sabbatical leave first semester
**Paul G. Jenson, Professor of Psychology (1953)**  
B.A., Luther College, 1948; M.A., University of Minnesota, 1951; Ph.D., 1955.

**Mrs. Hildegard Binder Johnson, Professor of Geography (1947)**  
Ph.D., University of Berlin, 1933.

**Ray Livingston, Professor of English (1956)**  
B.S., University of Minnesota, 1938; M.A., University of Minnesota, 1946;  
Ph.D., University of Minnesota, 1956.

**Ralph J. Lundeen, Professor of Physical Education for Men and Athletic Director (1954)**  

**G. Theodore Mitau, Professor of Political Science (1940)**  
B.A., Macalester College, 1940; M.A., University of Minnesota, 1942;  
Ph.D., 1948.

**Ian A. Morton, Professor of Music (1950)**  
A.B., Macalester College, 1937; S.M.M., Union Theological Seminary, 1940.

**Mary Gwen Owen, Professor of Dramatic Art (1928)**  
B.A., Macalester College, 1923; M.A., University of Minnesota, 1936.

**Georgiana Paine Palmer, Professor of Classical Languages and Russian (1929)**  
B.A., Smith College, 1921; M.A., 1924; Ph.D., University of Chicago, 1932.

**Harvey Mitchell Rice, President (1958)**  
A.B., Concord College, 1929; M.A., West Virginia University, 1933;  
Ph.D., Ohio State University, 1938.

**Chester Hines Shiflett, Professor of Chemistry (1929)**  
B.A., Kingfisher College, 1921; M.A., Clark University, 1923; Ph.D.,  
University of Minnesota, 1933.

**Winton U. Solberg, James Wallace Professor of History (1958)**  
A.B., University of South Dakota, 1943; A.M., Harvard University,  
1947; Ph.D., 1953.

**R. C. Staley, Visiting Professor of Mathematics (1959)**  
Pd.B., Central State Teachers College, 1907; A.B., University of Colorado,  
1916; A.M., University of Colorado, 1926; Ph.D., University of Michigan,  
1938.

**Borghild Katharine Sundheim, Professor of French and Spanish (1927)**  
B.S., University of Minnesota, 1925; M.A., 1927; Ph.D., 1935.

** On leave of absence 1961–1962 **
Hugo W. Thompson, Professor of Philosophy and Religion (1943)
B.A., University of Minnesota, 1923; Ph.D., Yale University, 1935.

Arthur R. Upgren, F. R. Bigelow Professor of Economics (1957)
B.A., University of Wisconsin, 1920; Ph.D., University of Minnesota, 1937.

Otto Theodore Walter, Professor of Biology (1922)
B.A., State University of Iowa, 1916; M.A., 1917; Ph.D., 1923.

Frank Earl Ward, Professor of English (1926)
B.A., Oberlin College, 1922; M.A., 1923.

Mrs. Emily G. Willerman, Visiting Professor of Psychology (1956)
B.A., Bethany College, 1935; M.A., Columbia University, 1936; Ph.D., State University of Iowa, 1943.

Forrest Albert Young, Professor of Economics (1929)
B.S., Monmouth College, 1922; M.A., University of Chicago, 1926; Ph.D., State University of Iowa, 1938.

Mrs. Evelyn Antonson Albenson, Associate Professor of German (1947)
B.A., University of Minnesota, 1941; M.A., University of Minnesota, 1945.

Anne Helene Blegen, Associate Professor of French (1946)
B.A., University of Minnesota, 1921; M.A., 1930.

Richard Bruce Dierenfield, Associate Professor of Education and Director of Evening Session (1951)

Dorothy Dodge, Associate Professor of Political Science (1955)

Dr. Frederick A. Fox, Associate Professor of Medical Technology (1960)
B.S., University of Maryland, 1950; M.D., University of Chicago School of Medicine, 1954.

Louis Daniel Frenzel, Jr., Associate Professor of Biology (1957)
B.S., North Texas State College, 1947; M.S., North Texas State College, 1948; Ph.D., University of Minnesota, 1957.

James F. Holly, Associate Professor and Librarian (1959)
James Albert Jones, Associate Professor of Biology (1948)

A. Elizabeth Leinbach, Associate Professor of Religious Education (1948)
B.S., University of Minnesota, 1926; M.A., Columbia University, 1928.

Harold I. Lund, Associate Professor and Assistant Director of Bureau of Economic Studies (1957)

Dorothy Marie Michel, Associate Professor and Director of Physical Education for Women (1946)
B.S., University of Minnesota, 1924; M.A., Columbia Teachers College, 1931.

Walter D. Mink, Associate Professor of Psychology (1958)
A.B., Hiram College, 1950; Ph.D., University of Minnesota, 1957.

James Sanford Newcomb, Associate Professor of Physics (1956)
B.A., Macalester College, 1938; M.S., University of Rhode Island, 1950.

Gareth Raymond Olson, Associate Professor of Physical Education for Men (1956)
B.S., University of Minnesota, 1948; M.Ed., University of Minnesota, 1949; Ph.D., University of Minnesota, 1959.

Millard Herbert Ruether, Associate Professor of Pharmacology and Chemistry (1953)
B.A., University of Minnesota, 1943; B.S., 1946; Ph.D., 1961.

John Howe Scott, Associate Professor of Chemistry (1941)
B.A., Clark University, 1930; M.S., State University of Iowa, 1931; Ph.D., 1933.

Earl Spangler, Associate Professor of History (1949)
B.S., Oklahoma State University, 1941; M.A., 1946; Ph.D., 1960.

Fred B. Stocker, Associate Professor of Chemistry (1958)
B.S., Hamline University, 1953; M.S., University of Minnesota, 1955; Ph.D., University of Colorado, 1958.

William Lawrence Thompson, Associate Professor of English and Humanities (1950)
B.A., University of Maine, 1934; M.A., 1936; Ph.D., Stanford University, 1946.
DAVID B. WHITE, *Associate Professor of English and Philosophy* (1948)
B.S., Northeastern State College, 1937; M.A., Oklahoma State University, 1939; Ph.D., University of the Pacific, 1959.

**MRS. LUCY BOOTHROYD ABBE, Assistant Professor of Biology** (1944)
B.A., Cornell University, 1928; M.S., Cornell University, 1930.

BAIRD, DUNCAN HALL, *Assistant Professor of Political Science* (1961)
B.A., Yale University, 1939; LL.B., University of Michigan, 1942; M.A., University of Minnesota, 1960.

DONALD BETTS, *Assistant Professor of Music* (1959)
M.M., Indiana University, 1959.

ROGER KELLOGG BLAKELY, *Assistant Professor of English* (1946)
B.A., Macalester College, 1943; M.A., University of Minnesota, 1948.

DONALD ARTHUR BORCHARDT, *Assistant Professor of Speech* (1961)
B.A., University of Minnesota, 1953; M.A., 1958; Ph.D., University of Utah, 1960.

LLOYD J. BUCKWELL, JR., *Assistant Professor of Economics* (1955)
B.S., Northwestern University, 1951; M.S., Virginia Polytechnic Institute, 1954.

IVAN CHARLES BURG, *Assistant Professor of Journalism* (1936)
B.A., Macalester College, 1934.

VINCENT WELLES CARPENTER, *Assistant Professor of Music* (1948)

***NELSON AUGUSTO CAVAZOS, Assistant Professor of Spanish* (1949)
B.A., Baylor University, 1947; M.A., University of Tennessee, 1949.

RAYMOND PETER CIAGNE, *Assistant Professor of Chemistry and Microbiology* (1961)
B.S., University of Minnesota, 1950; M.S., 1954.

FRIEDA H. CLAUSSEN, *Assistant Professor of Medical Technology* (1937)

*1 WILLIAM P. COLBERT, Assistant Professor of Education* (1958)

** On leave of absence 1961–1962
*** On Sabbatical Leave 1961–1962
*1 On leave of absence first semester
ROBERT JAY DASSETT, JR., Assistant Professor of Spanish (1947)
B.A., University of Minnesota, 1939; B.S., University of Minnesota, 1942; M.A., 1953.

DONALD G. DAWE, Assistant Professor of Religion (1961)
B.S., Wayne State University, 1949; B.D., Union Theological Seminary, 1952; Th.D., 1960.

PAUL M. GUSTAFSON, Assistant Professor of Sociology (1949)
B.S., Northwestern University, 1946; M.A., 1949.

WILLIAM HOFFMAN, Assistant Professor of Sociology (1960)
B.A., University of Minnesota, 1935; M.S.W., 1952.

DAVID HENRY HOPPER, Assistant Professor of Religion (1959)
B.A., Yale University, 1950; B.D., Princeton Theological Seminary, 1953; Th.D., 1959.

RAYMOND G. JOHNSON, Assistant Professor of Psychology (1960)

MRS. PATRICIA L. KANE, Assistant Professor of English (1947)

J. EUGENE KANGAS, Assistant Professor of Economics (1960)

CELESTIA ANNE MEISTER, Assistant Professor of English (1948)
B.A., Macalester College, 1938; B.S., University of Minnesota, 1940; M.A., 1941.

CHARLES LUDWIG MILLER, Assistant Professor of Biology (1951)
B.A., Sioux Falls College, 1949; M.S., Kansas State College, 1951.

THOMAS NEE, Assistant Professor of Music (1957)
B.S., University of Minnesota, 1943; M.A., Hamline University, 1948.

JACK PATNODE, Assistant Professor of English (1946)
B.A., Macalester College, 1942; M.A., University of Minnesota, 1947.

MRS. HELENE N. PETERS, Assistant Professor of French (1961)
M.A., University of Toulouse, France, 1939; M.A., University of Toulouse, France, 1945; Ph.D., University of Minnesota, 1954.

JANIS ROBINS, Assistant Professor of Chemistry (1960)
B.A., University of Washington, 1952; Ph.D., 1957.

JERRY I. RUDQUIST, Assistant Professor of Art (1958)
**CHARLES JACK SMILEY,** *Assistant Professor of Geology* (1956)

**HERMAN STRAKA,** *Assistant Professor of Music and Conductor of Orchestra and Band* (1952)

**WILLIAM ALVA SWAIN,** *Assistant Professor of Sociology* (1948)

**MRS. ISOBEL G. WALLING,** *Assistant Professor of Education* (1949)
B.S., University of Minnesota, 1933; M.A., 1935.

**FRANZ XAVIER WESTERMEIER,** *Assistant Professor of German* (1947)
B.A., St. Thomas College, 1941; M.A., University of Minnesota, 1955.

**MRS. PATRICIA WIESNER,** *Assistant Professor of Physical Education for Women* (1950)
B.A., Iowa State Teachers College, 1948; M.S., University of Southern California, 1955.

**HOWARD Y. WILLIAMS, JR.**, *Assistant Professor of Education* (1960)

**THOMAS D. ABBOTT,** *Instructor in Voice* (1961)
M.M., Chicago Music College.

**LOUIS J. ADOLPHSEN,** *Instructor in Education* (1962)

**WASSILIJ ALEXEEV,** *Instructor in Russian* (1961)
Diploma, University of Moscow, Historical Faculty, 1930.

**MRS. AUDREY ALLEN,** *Instructor in Medical Technology* (1950)
B.A., Macalester College, 1948.

**JAMES L. ARMSTRONG,** *Instructor in English* (1959)
B.A., University of Minnesota, 1957.

**MRS. LILA AZAD,** *Instructor in Education* (1961)

**EARL BARR,** *Instructor in Organ* (1954)

**On leave of absence 1961-1962**

**Second semester only**
** ROBERT ADAM BAUMAN, Instructor and Director of Audio-Visual Education (1955)
B.S., University of Minnesota, 1954.

THOMAS N. BAYER, Instructor in Geology (1957)
B.A., Macalester College, 1957; M.S., University of Minnesota, 1960.

DOUGLAS BOLSTORFF, Instructor in Physical Education for Men (1959)
B.S., University of Minnesota, 1959.

*2 RICHARD JOHN BROOK, Instructor in English (1962)

JANE E. BURRIS, Instructor in Piano (1960)

CHARLES BUZICKY, Instructor in History (1961)

MRS. MARION COLLIS, Instructor in Voice (1956)

MRS. JEAN GEORGE CONGDON, Instructor in Speech (1960)

KENNETH DAVENPORT, Instructor in Double Bass (1953)

RAMON S. FIRNSTAHL, Instructor in Education (1961)
B.S., University of Minnesota, 1951; M.A., 1959.

JOHN FORD, Instructor of the Pipe Band (1961)

HENRY FRANTZEN, Hockey Coach (1948)

MRS. CLEMENTINE GIFFORD, Instructor in Voice (1937)

MRS. BERNAEINE GOYETTE, Instructor in Medical Technology (1951)
B.A., Macalester College, 1945; B.S., Macalester College, 1946.

EDWIN L. GROENHOFF, Instructor in Geography (1961)

MRS. BETTY L. HANNAH, Instructor in Physical Education for Women (1961)
B.S., University of Minnesota, 1951.

HASSELMANN, RONALD H., Instructor in Brass (1961)

DOUGLAS P. HATFIELD, Instructor in Speech (1955)

** On leave of absence 1961–1962
*2 Second semester only
Ruben C. Haugen, Instructor in Clarinet (1958)
B.M., MacPhail School of Music, 1950; M.M., MacPhail School of Music, 1951.

Mavis Hawkins, Instructor in Medical Technology (1956)
B.A., Macalester College, 1952.

Loyle J. Houlton, Instructor in Physical Education for Women (1961)

Howard F. Huelster, Instructor in English (1949)

Clifton Jackson, Instructor in Violin (1958)

George H. Jaeger, Instructor in Mathematics (1947)
B.S., University of Minnesota, 1939; M.A., 1948.

Mrs. Nancy Johansen, Instructor in Education (1961)

Adyline C. Johnson, Instructor in Voice (1956)
B.M., MacPhail College of Music, 1950.

Barbara Jean Johnston, Instructor in Sociology (1959)

Barbara Jones, Instructor in Medical Technology (1959)

Mrs. Olive M. Jones, Instructor in Classics (1948)
B.A., University of Michigan, 1931; M.A., 1938.

*2 Wayne K. Kirchner, Instructor in Psychology (1956)
B.A., University of Minnesota, 1949; M.A., 1951; Ph.D., 1954.

Patricia Lalley, Instructor in Medical Technology (1955)
A.B., Clarke College, 1949; M.S., University of Kentucky, 1952.

William E. Lemons, Instructor in English (1961)

*1 Mrs. Agnes L. Liesenfeld, Instructor in Secretarial Studies (1961)
B.S., University of Minnesota, 1938.

Dean A. Maas, Instructor in Physical Education for Men (1959)
B.A., University of Minnesota, 1956.

*1 First semester only
*2 Second semester only
James W. MacGregor, Jr., Instructor in Journalism (1961)  

Ruth MacMahon, Instructor in Medical Technology (1961)  
B.S., Marquette University, 1957.

Ralph D. McAlister, Instructor in Physical Education for Men (1957)  
B.A., University of Minnesota, 1946; M.A., University of Minnesota, 1959.

** Roger Mosvick, Instructor in Speech (1956)  

Thomas A. Nelson, Instructor in English (1959)  

Mrs. Roberta R. Mielke, Instructor in Mathematics (1961)  

** Mrs. Noma Sadwick, Instructor in Psychology (1961)  
B.A., University of Chicago, 1949; Ph.D., 1957.

Sherman W. Schultz, Jr., Instructor in Astronomy (1958)  
Doctor of Optometry, Northern Illinois College of Optometry, 1945.
ALMA L. SCOTT, Instructor in Physical Education for Women (1958)
B.S., St. Cloud Teachers College, 1948; M.A., State University of Iowa, 1954.

DONALD G. SHAMBLIN, Instructor in Spanish (1961)

JAMES J. SHANNON, Instructor in Education (1955)
B.S., University of Minnesota, 1952; M.A., 1953.

ELEANOR STOPPEL, Instructor in Medical Technology (1960)

MRS. LUCILLE H. SWAIN, Instructor in Voice Training (1949)

MADELEINE RAVENCREFT TITUS, Instructor in Normal Piano (1952)
B.M., MacPhail College of Music, 1936.

JAMES O. WALL, Visiting Lecturer in Sociology (1957)
B.S., University of Pennsylvania, 1946; B.M., University of Minnesota Medical School, 1948; M.D., University of Minnesota Medical School, 1949.

MRS. RUBI WENTZEL, Instructor in Cello (1956)
B.M., University of Michigan, 1937.

RUSSELL WIGFIELD, Assistant Chaplain, Instructor in Bible (1956)

MRS. MARY ROBERTS WILSON, Instructor in Flute (1951)
B.A., Macalester College, 1938.

FANCHER E. WOLFE, Instructor in Economics (1961)
B.S., Susquehanna University, 1951.

MRS. CYRILLA B. WOOD, Instructor in Secretarial Studies (1959)
B.S., University of Minnesota, 1930; M.A., Northwestern University, 1939.

MRS. VERONICA MARY WOOD, Instructor in German (1959)
B.A., Wisconsin University, 1936; M.A., University of Minnesota, 1950.

SHARLENE AGERTER, Research Associate in Tree-Ring Research Laboratory (1955)

RICHARD J. CHRISTMAN, Laboratory Assistant in Chemistry (1961)
B.S. and M.S., University of Minnesota, 1937.

BENJAMIN DRAKE, Graduate Assistant in Geology (1961)
B.A., University of Minnesota, 1959.
FLORIS ANN KLOOS, Graduate Assistant in Biology (1961)

MRS. EDITH MEINECKE, Graduate Assistant in Anatomy and Physiology (1956)
B.A., University of Minnesota, 1930; M.A., Mount Holyoke College, 1933.

MRS. LIESELOTTE K. TSCHESCHE, Department Assistant in German (1961)

* MRS. MARGARET W. WISE, Laboratory Assistant in Nursing Education (1961)
B.S., Emory University, 1958.

LIBRARY STAFF

MRS. JEAN K. ARCHIBALD, B.S. in L.S., Assistant Reference Librarian
MARY LOU HABURN, B.A., Acquisitions Assistant
MARGARET L. HAMMOND, B.S., Serials Librarian
EDITH H. JONES, B.A., M.A., B.S. in L.S., Catalog Librarian
RODERICK K. MACDONALD, B.A., M.A., Reference Librarian
MRS. ROSALIND MESNIK, B.S. in L.S., Cataloger, Library
DOROTHY NEWBERG, B.A., Circulation Librarian
MRS. LOISE T. ROSEL, Acquisitions Assistant
MRS. ELIZABETH SIMMONS, A.A., B.A., Circulation Assistant

DORMITORY AND FOOD SERVICE

MRS. MATILDA E. BALL, Director, Turck Hall
MRS. JULIA BORCHERS, Party Supervisor, Student Union
JAYE BURKE, B.A., Assistant Director, Turck Hall
CLIFFORD J. CAINE, B.A., LL.B., Coordinator of Men's Residence Halls

CHRISTINE FOLLANSBEE, Assistant Director, Wallace Hall
JOHN GOLDEN, B.A., Danforth Seminary Intern
DOROTHEA GROEZINGER, B.S., Director, Student Union Cafeteria
LANCE JOHNSON, Resident Counselor of Dayton Hall
MRS. GERALD LYON, Assistant Director, Bigelow Hall
MRS. MAE MARSH, Director, Summit House
MRS. ALICE MEISEL, Director, Wallace Hall
MRS. VEDA SCOTHRON, Director, Bigelow Hall
DOROTHY A. YIKE, B.S., Director of Food Service

* First semester only
SECRETARIAL AND BUSINESS STAFF

ROBERTA J. ACTOR, B.A., Receptionist, Office of Admissions
MRS. MARION ARMSTRONG, Secretary to the Chaplain
MRS. JUDITH E. BARTZ, B.A., Clerk-Secretary, Office of Admissions
MRS. MARY S. BERQUIST, B.A., M.A., Secretary to the Directors of Summer Session and Evening Session
MRS. BEVERLY BORCHERS, Secretary to the Curriculum Review Committee
MRS. LEONE BRYCE, Catalog Clerk-Typist, Library
JAYE BURKE, B.A., Assistant Registrar
WILLIAM F. BURNS, Director of Duplicating Services
MRS. JOAN CARLEY, B.A., Secretary, Development Council
MRS. KAY CARROLL, B.A., Receptionist, Office of Admissions
MRS. GLADYS CLARK, Clerk, Registrar's Office
MRS. LUCILLE CLOUGH, Secretary to the Business Officer
SHIRLEY DOEHLING, Clerk-Typist, Office of the Registrar
LEWIS DOHMAN, B.S. in B.A., Accountant, Business Office
MRS. NANCY BETH DYNNESON, Clerk, Mailing Services
ANITA M. ENGEL, B.B.A., Secretary to the President
MRS. ISABEL FERGUSON, Secretary to the Director of Development and Public Relations
MRS. JEAN FRANCIS, Gifts Assistant, Library
MRS. JANNA GALMAN, Stenographer, Office of the President
MRS. IRENE GERNER, Clerk, Post Office
BARBARA L. GREAVES, Clerk-Typist, Development Council
MRS. MARY T. HAMPL, Catalog Clerk-Typist, Library
MRS. MARIE HANNAHAN, Secretary to Director of Publicity
CHARLES HARE, Manager of the College Mail Room
OLIVIA JOHNSON, Secretary to Director of Bureau of Economic Studies
MRS. JANE KEYES, Clerk-Stenographer, Development Council
NANCY KITZMAN, Secretary, Nursing Education
MRS. ARLENE KNUTON, Secretary, Office of the Dean of the College
MRS. DORIS KVENDA, Cashier, Business Office
HELENE LEE, Stenographer, Office of Admissions
SHIRLEY LIEBE, B.A., Stenographer, Office of Faculty Secretary
JANE LILLEODDEN, Secretary to the Registrar
MRS. ASLUG MAGNUSON, B.S., Stenographer, International House
MRS. DOROTHY MANTHEY, Stenographer, Development Council
NANCY GAIL MASON, Clerk-Stenographer, Office of Faculty Secretary
MRS. LUCILE MAYO, Secretary to Associate Dean of Students
MRS. MAXINE MCDANIEL, Secretary to Head of Elementary Education
MRS. ALICE MCGRODER, Accounts Payable, Business Office
JOAN MILLER, A.A., Secretary to Director of Teacher Placement
MRS. JACQUELINE PEACOCK, Secretary to the Dean of the College
MRS. MOLLY PERLMAN, Secretary to the Dean of Students
NANCY PETRO, Secretary to the Librarian
MRS. BERNICE RASMUSSEN, Receptionist, Office of the Dean of Students
JUDITH RICHARDSON, Secretary, Development Council
MRS. SARAH SAVAGE, Post Office Manager
MILDRED M. SEBO, Clerk, Registrar's Office
JAN SKOLD, Clerk-Stenographer, Business Office
MRS. MARY SPRAIN, Secretary to the Religion Department
MRS. ALICE STANGER, Secretary to the Student Union Director
MRS. AMANDA UGGEN, Secretary to Associate Dean of Students
MRS. MILDRED UTTER, Secretary to Director of Testing and Assistant Dean of Students
MRS. ULTIMA K. WELLS, Faculty Secretary
MRS. BARBARA WILLIAMS, Clerk, Mailing Services
MRS. RUTH WILMER, Secretary to Assistant to the President
MRS. MURIEL ZIEMANN, Secretary, Office of the Registrar

BUILDING AND GROUNDS

ARTHUR A. FOWLER, Superintendent of Plant and Grounds
EDWARD J. JAHNKE, Chief Carpenter
RALPH NELSON, Engineer
Purposes and Goals

Macalester College is a Christian liberal arts college that endeavors to unite excellence in academic achievement with dedication in service. Its purpose is to help able young persons to develop, through serious study in the liberal arts and wholesome participation in the life of the College, significant capacities for full and selfless leadership grounded in free inquiry, justice, and compassionate concern for all human beings.

Believing that worthwhile life and a free society hinge upon enlightened intelligence, the College takes its primary task to be the sharing of great ideas among growing minds. The College leads the student so to discern, ponder, discuss, and apply the best that men have thought, felt, and done in the arts, humanities, and sciences that he may grow to be wise in judgment, reasonable in discourse, and resolute in action. The College leads the student in time to bring his studies to focus in a scholarly discipline to the end that he may gain respect for all such disciplines, skill in methods of responsible inquiry, and solid foundations for further study and expanding personal and vocational experience.

Taking good will rooted in faith to be basic, the College seeks to constitute a community exemplifying the spirit of brotherhood. Christian in spirit and Presbyterian in background, but not sectarian in outlook, Macalester endeavors in its instruction, activity and worship to enable the student to develop a philosophy and way of life rooted not only in knowledge and useful capacity, but also in character, sensitivity and reverence. Macalester seeks to cultivate in all its students constructive citizenship and aspires to bring out in many fearless zeal for justice, freedom and human well-being.
THE PLAN OF EDUCATION

The student who selects Macalester College has a right to expect that the college will help him to answer two questions:

1. How can I build a life that will be competent, happy, balanced and qualified to meet the responsibilities of a free citizen in a free world?

2. How can I prepare myself for a career that will make me a self-sustaining member of society, with joy and pride in my work and a sense of usefulness and achievement?

In the endeavor to assist in finding the answer to the first question, the faculty of Macalester College, aided at many points by student suggestions, has developed a program of general education that covers the major part of the curriculum in the first two years and a large part in the last two years.

In pointing the way to the answer of the second question, in so far as the career rests upon a broad educational foundation and includes a large measure of intellectual activity, the College offers a number of major course sequences in the last two years. Most of these courses in turn depend upon the satisfaction of general education requirements in the first two years.

GENERAL EDUCATION

The content of the curriculum of a liberal arts college is modified from time to time to meet the needs of a changing society. However, its basic purposes remain the same, and one of these purposes is the development in each student of knowledge, ability and appreciation in these fields:

1. The art of thinking, through the use of the main tools and
skills in learning new truth, including familiarity with the scientific method, efficient habits of reading and listening, and training in logic and in the ability to separate fact from opinion.

2. The communication of ideas, largely through the most thorough training in the use of the English language, in reading, writing and speaking.

3. Acquaintance with the main fields of scientific knowledge and human activity, including the historical development of modern civilization and the constitution of modern society, its problems and its institutions.

4. Acquaintance with the literature and fine arts of the world.

5. The development of a Christian philosophy of life.

Most of the courses required in the freshman and sophomore year are designed to assist the student in these fields. However, all students are expected to take courses in general or liberal education throughout the four years spent at Macalester.

THE CITIZENSHIP SEQUENCE

MACALESTER College has for many years sought to develop qualities of citizenship and civic leadership among its students. The faculty has gradually worked out a sequence of courses in citizenship which allows ample opportunity for specialization in the junior and senior years and yet keeps at the forefront of the student’s attention his obligations as a citizen.

The objective of the Citizenship Sequence in the freshman and sophomore years is to develop the student’s skill and knowledge in the basic areas of his activities as a citizen. He must learn to think straight and he must be able to communicate his own ideas and understand and evaluate the ideas of others. He must steadily bring into focus those values which will claim his loyalty and constitute his philosophy of life.

As a background for his thinking, the student is advised to take an integrated group of courses in the social sciences that will help him to understand how man has come to live as he does upon this planet and how life forces operate in human society. The student takes during his freshman and sophomore years four courses, totaling twelve credit hours, which are to be selected from three or four of the social science departments:
Students who do not major in the social sciences will find that the twelve hours listed above will be sufficient to acquaint them with the fundamental principles in each of the social sciences and give them a summary of American History.

The Citizenship Sequence also endeavors to indicate how life forces operate in the individual as well as in society. In relation to the individual two courses are offered, the first of which may be taken in the freshman year:

1. Physiology. This course is designed to enable the student to know himself and his bodily needs and resources in order that he may live more effectively in modern society. The student becomes acquainted with the essential facts of human anatomy and physiology and is able to make a critical judgment about suggested means of maintaining good health. (Biology 204R).

2. Psychology. This course conducts a study of the behavior of the human organism together with its conscious accompaniments, with a view to prediction and control. It is related to biology on the one hand and to sociology on the other. It considers the individual as affected by heredity and environment and examines his behavior in relation to his physical constitution and his family and social relations. (Psychology 201R).

With the modern world so directly affected by scientific invention and scientific ways of thinking, no college student can be deemed to be equipped to fulfill his duties as a citizen without knowing at first hand the methods and basic concepts of at least one natural science and mathematics, the tool of all sciences. It is therefore required as part of the Citizenship Sequence that twelve credit hours should be taken in this field of natural sciences, physical sciences, and/or mathematics.

Good citizenship also requires an ability to understand the peoples of other races and cultures. For this reason as well as other reasons,
students are required to have a reading knowledge of at least one foreign language and this is the meaning of the requirement that course 202 in foreign language or the equivalent course must be successfully passed (fourteen credit hours).

As an institution affiliated with the Christian church, Macalester College regards the understanding of Christian principles as set forth in the Bible as an essential of good citizenship. Eight credits in religion are therefore included as part of the Citizenship Sequence.

In addition, the student should have some knowledge of philosophy and the introductory course in this field or the history of philosophy or the course in ethics is recommended. (Philosophy 205, 220, 231 or 232).

Some knowledge of great literature and art is regarded as an indispensable part of the equipment of one who would completely perform the duties of citizenship. It is therefore provided that six credits in English literature or in foreign literature are required. It is particularly urged that students satisfy this requirement by taking the course offered by the English department, entitled General Humanities, English 351-352. A basic course in art, speech, or music is also required.

The good citizen should have good health so that he can do his work well and not become a burden on his family or on society. War has taught many lessons for the need of better physical training of American youth. Macalester College requires two credits, for two years of physical education. This also is part of the Citizenship Sequence.

Except as indicated above, these courses in the Citizenship Sequence can be completed by the end of the sophomore year.

In the junior year, there is no specific recommendation as to courses dealing with citizenship, as it is felt that the junior year usually ought to be the year of most intense concentration within the field of major interest.

In the senior year, however, the Citizenship Sequence is resumed with a climactic course entitled, Great Issues of the Modern World, 460R. Senior Seminar. It guides the student in a searching examination of his experience in the light of recognized principles of truth. The end sought is the attainment by the student, on grounds of clear
logic and steady faith, of the ability "to see life steadily and see it whole." The course seeks to aid the student in determining the relation of his knowledge in particular fields to the purposes of his life and his functions in society, and to assist him, as he faces mature responsibility, in reaching a clear philosophy of life in harmony with Christian principles of thought and action.

SPECIALIZED EDUCATION

There are many forms of specialized education, but a liberal arts college can engage in only a few of them. Those which are offered at Macalester College fall into two categories, (1) advanced courses in a particular field, designed to provide the benefits of intellectual discipline from continuous study in a concentrated area of knowledge. These are technically called "majors," and each candidate for graduation must elect a "major" department or area of interest and study before the beginning of his junior year. (2) Advanced courses that prepare for study in a professional school of law, medicine, dentistry, theology and other learned professions, and also for careers in education and business administration. These two categories of advanced studies frequently overlap, as they are all designed to develop that intellectual ability upon which successful careers in many lines depend.

For students of outstanding ability and well-defined interests, the field of concentration may be developed into a program of honors study.

PREPARATION FOR CAREERS AND PROFESSIONS

Macalester College, which is a four year college of the liberal arts and sciences, holds to the view that such colleges in America have always been concerned and should be concerned with the training of young people for many useful careers and professions. In the early colonial colleges, the courses prepared students primarily for the ministry, the law, the public service and medicine. As the requirements of a broad cultural training are now recognized as important in many other professions and careers, Macalester College has widened its offerings without surrendering the central emphasis on culture and on the training of young men and women
in the duties of citizenship. A detailed outline of each of the courses mentioned in this section of the catalog may be secured from the office of the Admissions Counsellor, and inquiries are invited as to the contents of these and similar courses of study. Qualified officers of the College and faculty members will outline the curriculum desirable in preparation for each of the professions listed below.

For Careers in Business — The student of today needs a broad background on which to build a professional career in the business world.

Pre-Engineering — The pre-engineering program offered by Macalester College is developed in recognition of the need for engineers who are more than specialists in their fields. They must also be liberally educated men of the Twentieth Century society in which they live. In recognition of this, Macalester offers a program that provides a liberal education along with a thorough training in pre-engineering. This is accomplished by five year programs in cooperation with a select group of engineering schools. The first three years of the program are at Macalester, where the students complete all of the requirements for the B.A. degree except certain advanced courses in the major. The last two years of the program are taken at the engineering school. Upon completion of the five year curriculum, the student is granted the appropriate engineering degree from the engineering school, and the B.A. degree from Macalester. In order to be recommended for this two-degree program, a student must have at least a B grade in each of his science and mathematics courses, and he should have an over-all average of B or better.

By making a proper selection of courses a student may also take two years of pre-engineering training at Macalester and then complete the five year engineering program of the University of Minnesota by attending the University for three additional years. This program would lead to a bachelor’s degree in engineering at the University.

For the Study of Law — The accredited law schools of the country require two or more years of college training as a prerequisite to the study of law. Macalester College advises a full four-year course before entering upon professional studies in the law school. However, in the case of a student who has completed 96 semester credits (three years) at Macalester, including all graduation requirements, he may trans-
fer to an approved law school at the end of his junior year and on
the completion of his first year's work in the approved law school
and transfer of his record in law school to the Registrar's office at
Macalester, will be granted the Bachelor's degree by Macalester
College.

For the Study of Medicine — The Class A medical schools of the
United States and Canada, including the University of Minnesota,
most strongly recommend the comprehensive four-year liberal arts
program leading to the Bachelor of Arts degree as the best prepara­
tion for the study and subsequent practice of medicine. "Preparation
that stresses science courses as against arts subjects is less satisfac­tory
than cultural preparation." While no medical school admits students
with less than three years of college work many require the Bache­
lor's degree, and most of the students who are admitted to medical
schools either have their Bachelor's degree, or they are within a few
credits of securing same.

In keeping with these basic principles of the Association of Ameri­
can Medical Schools and in conformity with the admission standards
of the leading medical schools Macalester College offers a four-year
pre-professional liberal arts and science program. A student with
more adequate high school preparation may find it possible to com­
plete his medical school entrance requirements in three years and
also receive our Bachelor of Arts degree after successfully completing
his freshman year in a grade A medical school. However, the
majority of students find that it is to their distinct advantage to
complete four years of liberal arts and science education before
entering medical school.

For the Study of Dentistry.— Students planning to enter the
School of Dentistry at the University of Minnesota must have a
minimum of two years of college work in certain prescribed and
elective courses (60 semester-credit-hours are equal to 90 quarter-
credit hours).

However, before deciding on taking only the minimum entrance
requirements the prospective student will do well to consider care­
fully the following statement taken from the University of Minne­
sota Dental School Bulletin: "A broad cultural education is of such
great value to the professional man that the University of Minnesota
offers the opportunity for a student to secure both the Bachelor of
Arts and the Doctor of Dentistry in seven years."
For Medical Technology — Students may prepare for this profession through one of the following two plans:

Plan 1. According to this plan the student will spend four years at Macalester College taking a major in Biology and a minor in Chemistry, or a major in Chemistry and a minor in Biology as well as all other general graduation requirements leading to the Bachelor of Arts degree which is awarded at the end of the fourth year. The fifth year of twelve months will be spent in professional training at the Charles T. Miller Hospital under competent professional instruction. Upon completion of the year at the hospital the student will receive the Bachelor of Science degree in Medical Technology from Macalester College, and a certificate from the hospital. Upon successfully passing the examination of the Board of Registry of Medical Technologists, the student will receive the certificate in Medical Technology.

Plan 2. This plan makes it possible for the student to meet all the entrance requirements to the hospital in three years at Macalester College. The fourth year of twelve months will be spent in clinical training at the Charles T. Miller Hospital. Upon successful completion of the fourth year at the hospital the student will receive the Bachelor of Science degree in Medical Technology from Macalester College, and a certificate from the hospital. Upon successfully passing the examination of the Board of Registry of Medical Technologists the student will receive the certificate in Medical Technology.

For Nursing — This profession offers exceptional opportunities for service in the public and private hospitals of our country, as well as for private duty nursing, public health work and institutional nursing.

The programs of Nursing offered at Macalester College serve the field of nursing according to the following three plans:

Plan One provides the framework of sciences on which nursing courses are built, for those enrolled in the three-year diploma program at Abbott Hospital, Northwestern Hospital, or St. Barnabas Hospital Schools of Nursing.

Plan Two offers an additional program of study for those who hold the R.N. This leads to a Bachelor of Science degree with a functional major related to nursing.
Plan Three is designed for those students who are candidates for a Bachelor of Science degree in Nursing. This program consists of two years at Macalester College during which time the student takes the standard courses in science and the liberal arts. The student will then transfer to an accredited, degree-granting School of Nursing.

For Teaching and Other Educational Service — The College offers opportunities to prepare for various careers in the field of education. Four-year courses are provided for kindergarten-primary teachers as well as for work in the intermediate grades. Courses are also offered which prepare one to teach at the secondary level in such fields as: English, foreign languages, social sciences, speech, mathematics, natural science, art, music, commercial subjects and physical education.

States are raising standards for teacher certification. Some states and many cities already require four years of training for elementary teachers and five years of training for secondary teachers. Macalester College now offers a fifth year for either elementary or secondary teachers leading to the degree of Master in Education.

The College prepares also for careers in the Christian ministry and missionary work, foreign service, journalism, library work, optometry, physical therapy, secretarial positions, and social work. For most of these careers work in professional or graduate schools is necessary beyond the foundations laid in the undergraduate college.

SOCIAL AND CULTURAL OPPORTUNITIES IN THE TWIN CITIES AND ON CAMPUS

MACALESTER College is located in a residence area mid-way between two great business centers, St. Paul and Minneapolis. Its students, therefore, have the advantage of being in daily touch with the affairs of a great metropolitan area, with its libraries, art museums, music concerts, lectures, governmental bureaus, courts, business houses, department stores, banks—all the institutions and functions that characterize American life in the twentieth century. The students are encouraged in every way to use the Twin Cities as their social studies laboratory and as their art work opportunity.

Among the many functions that attract the support of Macalester students are the Minneapolis Symphony Orchestra and the St. Paul Civic Opera Association, for which tickets are available at reduced
rates. Excellent plays from Broadway are presented in the Twin Cities and many local theater productions provide a wide range of theater offerings. The St. Paul Winter Carnival is an annual event in midwinter that brings thousands of visitors to the cities. A large number of distinguished musicians and other artists can be heard on the public concert stage during each musical season.

Many students work in volunteer Twin Cities social agencies and thus develop a degree of social and community responsibilities. World citizenship is cultivated in programs like those of the Canadian-American conferences in which twenty Macalester students and twenty-four students from the United College in Winnipeg, Canada, meet each year to discuss their common problems.

During the 1962-63 year, Macalester College will be fortunate in having twelve young journalists from various countries of the world living and studying with Macalester students. These journalists are brought to the United States for a year to learn about American life and institutions, and, in addition to their travels and studies at the College, each journalist will spend six weeks on the staff of an American newspaper.

Each summer, the Macalester Mexican Caravan makes a tour to Mexico City and hears detailed accounts of the life and problems of the Republic of Mexico.

Macalester College brings each week a convocation speaker of distinction who is shared with the listening public over the radio station KUOM of the University of Minnesota (770 kilocycles) on Tuesdays at 1:30 p.m. Most of these speakers are available to students and faculty members for informal conferences after their public appearances. The College is also a participant in the Private College Hour over the University's Station KTCA-TV.

THE COMMUNITY COUNCIL

The purpose of the Community Council is to enact and enforce legislation with a view to coordinate the student activities of the campus, to program student activities, to effect a centralized student government, to increase student-faculty cooperation, to offer for the entire college community a training ground in democracy and democratic procedure, to provide opportunity for the development of
leadership and socialization, and to encourage Christian ideals and practice.

The Community Council is made up of a president, a vice-president, a treasurer, the four class presidents, and eight secretaries who head eight interest areas of student life. These are: academic, arts, athletic, citizenship, inter-campus, publications, religious, and social. Each secretary has a committee for the purpose of studying and making recommendations for improvement of student activities in each area.

The student body, faculty and administration, through its Community Council, became affiliated in 1947 with the National Student Association. This affiliation with the National Student Association provides the Macalester College community an opportunity to exchange information and viewpoints with college students across the nation and to be represented in UNESCO, the American Council on Education, and government agencies.

CAMPUS SOCIAL LIFE

The Social Commission of the Community Council and the various student organizations on Macalester College campus provide a wide variety of opportunity for both informal and formal social affairs. The emphasis on the Macalester campus is on acceptance of the individual worth of each student and the providing of social activities for all students. Such activities are planned on a campus-wide as well as organization basis. Student organizations carry out cooperative, friendly programs that avoid the campus being divided by restricted social groups. Cooperation in the counseling program, in student-faculty committees and in social projects assists greatly in bringing students and faculty members together in one fellowship.

STUDENT ORGANIZATIONS AND ACTIVITIES

Macalester College believes student organizations and activities provide a significant opportunity for learning and individual development. The program of student activities is organized and coordinated through the Macalester Community Council with faculty advisors and the staff of the Dean of Students Office working actively with student organizations in a friendly, advising role.
The organizations presently active on the campus present a wide and varied opportunity for sharing interests, striving toward mutual goals, developing leadership and individual self development. The active organizations on the campus are as follows:

The academic honorary societies are: Artus (economics and business administration); Kappa Delta Pi (education); National Collegiate Players (drama); Pi Gamma Mu (social sciences); Pi Kappa Delta (speech); Pi Phi Epsilon (general). Students with like majors or special interests have an opportunity to join such groups as Alpha Delta Theta (medical technology); American Chemical Society, Classical Club, French Club, Geology Club, German Club, Mu Tau Alpha (Mcalester Technical Association), Phi Delta Mu (pre-medical and pre-dental), Psychology Club, Russian Club, Spanish Club and Student National Education Association.

In the arts area there are the Visual Arts Club, Drama Choros, Band, Choir, Film Society, Orchestra, Mac Bagpipe Band, Drama Club. Student Publications include the Mac Weekly, The Mac (yearbook), The Chanter (literary) and the Spotlite (directory).

Athletic related organizations are: Cheerleaders, Scots Club, Ski Club, Women’s Physical Education Major and Minor’s Club, Women’s Recreation Association.

In the area of citizenship are the Association of Women Students (AWS), Campus Chest Committee, Canadian-American Conference, Community Council, International Relations-Cosmopolitan Club, Junior Chamber of Commerce, Macalester Junior Toastmasters, McChatter Clan, Off-Campus Women’s Board, Span, Union Board, Young DFL, and Young Republicans.

Social Clubs include the Associated Resident Women, Off-Campus Women’s Club and the Thalian Society, which is a social club.

Religious Organizations include Canterbury Club (Episcopal), Church Vocation Fellowship, Commission on Religious Emphasis (CORE), Inter-Varsity Christian Fellowship, Lutheran Student Association, Roger Williams Fellowship (Baptist), St. Thomas More (Catholic), Student Christian Federation, Tartan Troopers, United Student Fellowship, Wesley Club (Methodist), Fireside Fellowship (Presbyterian), Northminster Fellowship (Presbyterian), YMCA and YWCA.
THE STUDENT AND THE COLLEGE

STUDENT PERSONNEL PROGRAM

MACALESTER College is a friendly, cooperative community in which the total development of the individual student is the paramount concern. The College is vitally interested in the intellectual, social, moral, spiritual, and emotional growth of every student as a person and as a citizen. To serve this objective Macalester College maintains a professionally staffed student personnel program dedicated to assisting the individual student to maximum growth and maturity and to promoting a total campus environment that encourages and nourishes this growth.

The Student Personnel Program is directly concerned with the areas of orientation, counseling, housing, student life, student organizations, health and placement, and cooperates with students and faculty in planning and promoting educationally oriented programs in each of these areas.

ORIENTATION

NEW students are welcomed to college life at Macalester through a carefully planned Orientation program. This program is intended to acquaint them with the educational opportunities of the college, to aid them in planning their educational goals, to assist them with testing and registration procedures, and to introduce them to the program of student life and social activities. Students and staff members join to plan the events of this week.

The first phase of the orientation program is offered during the summer months. This program includes testing for placement purposes, a conference with their faculty advisor, and registration for fall classes. The remaining part of the program is held four days preceding the beginning of classes. The highlights of the fall program
include the President’s Reception, the camp programs held at nearby lakes, and the informal meetings and talks with upperclass students.

COUNSELING

FRIENDLY, helpful relationship between faculty members and students is an outstanding feature of life at Macalester. Such friendliness is a natural part of a small, church-related college where it is possible to know the members of the entire college community.

To utilize these friendly relationships to the maximum an extensive counseling program operates under the supervision of the Dean of the College and the Dean of Students. Basically, counseling is a part of the whole teaching process in college. It is individualized teaching concerned with the student's total personality development—intellectual, social, emotional, vocational, and moral. The goal is the steady development of intelligent and responsible self-management by the student as he progresses through his college experience.

Two areas of counseling services are provided: (1) academic counseling and (2) specialized counseling. Each student has available the assistance of (1) his faculty counselor, (2) his upperclass student counselor (for new students), (3) the officers of the College, (4) the specialized counseling of the office of the Dean of Students. A new student is notified of the names of his faculty and student counselors a few weeks before beginning college.

The faculty counselor carries on educational and vocational counseling with the student and periodically helps the student review his plans and progress. Mid-semester and final grades are reported to a student by his faculty counselor. Conferences with faculty counselors are scheduled during registration periods but are usually voluntary at other times. Informal gatherings of students and their counselors in faculty homes are common. Whenever a change of faculty counselor seems desirable, such a change is made easily and promptly through the office of the Academic Dean at the request of either the student or the faculty counselor.

For specialized counseling needs, the staff of the office of the Dean of Students is available to all students. Professional counseling is carried out in the areas of personal and social adjustments, psychological test interpretation, vocational and career planning and military affairs. In addition to the regular counseling services available,
foreign students on the campus are assisted by a Foreign Student Advisor concerning their problems of adjustment.

**STUDENT HOUSING**

A student's living arrangements and relationships are influential factors in his personal development during the college years. A residence hall is a miniature and intimate community, providing an opportunity for the student to receive some of his most effective education in human relations. The residence hall directors and the residence counselors in their counseling role cooperate with the student resident hall councils in planning and encouraging a high level of general citizenship and active social life. Both on-campus and off-campus students are under the general supervision of the office of the Dean of Students. Those students who are not living in residence halls must apply to the office of the Dean of Students for approved off-campus housing. Any exceptions to living in approved off-campus housing must be cleared by the office of the Dean of Students. Arrangements for working for room and board in a private home are also made through this office.

**FINANCIAL AID AND PART-TIME EMPLOYMENT**

The College program of financial aid for students is administered through the office of the Dean of Students. This includes scholarships, grants in aid, loans, part-time work for the college and off-campus part-time work. A more extensive description of this program is found in the section on College Finances in this catalog. The office of the Dean of Students endeavors to find part-time employment for students who need to earn a part of their expenses. This employment includes a wide variety of work, both skilled and unskilled.

**WINTON HEALTH SERVICE**

The Student Health Service is located at 1595 Grand Avenue. William H. A. Watson, M.D., consulting physician, is at the Health Service from 8:00 a.m. to 12 noon, Monday through Friday. Dorothy S. Jacobson, R.N., Director of the Health Service, and a registered nurse assistant live in residence at the Health
Service. Health Service office hours are 8:00 a.m. to 5:00 p.m. Monday through Friday. Saturday hours are 8:00 a.m. to 12 noon. Nurses are on duty for emergencies 24 hours daily.

Services available include free consultation with the doctor, laboratory facilities, physiotherapy which includes, whirlpool, diathermy, infra-red lamp, ultra-violet lamp (the use of ultra-violet lamps in the dormitories or rooming houses is not permitted), x-ray, and in-patient care for minor illnesses. One and one-half days hospitalization at the Health Service each semester are free; thereafter the rate is $6.00 per day. All cases requiring major surgery and all serious illnesses are cared for at local hospitals. The College is not responsible for expenditures in such cases. A minimum fee is charged for antibiotics, special drugs, and x-rays. All other medications are given free of charge.

A voluntary plan of accident reimbursement insurance is available to our students. The policy provides reimbursement up to $1,000 for each accident for any medical expenses originating from an accident in which the student is injured. The plan protects all participating students twenty-four hours a day for a twelve month period. Full protection is assured during interim vacations, and participation in all activities including athletics, either on or off campus, are covered.

The cost of this insurance per student for twelve months is nominal. The premium will be added to the student’s account and payment made at the time of settlement of the account with the college.

Medical and Surgical Group Insurance with Blue Cross and MII is also available at favorable group rates to all students. Premiums for this coverage are payable in October for the six months period beginning November 1 and in April for the six months period beginning May 1.

Additional information will be furnished upon request.

INTERNATIONAL HOUSE

The Macalester College International House was opened in 1960 and is a focal point for many of the international activities that take place on campus as well as an informal meeting place for foreign and United States students. Here also students and faculty meet together for international conversation over a cup of coffee.
GRADUATE PLACEMENT

An extensive program of placement services for full-time positions is available to all seniors, alumni, and former students. Placement services for positions in business and industry, social agencies, churches, and government are under the general supervision of the Director of Placement. Also, many department heads assist seniors majoring in their department to locate positions following graduation.

The Director of Teacher Placement supervises the program of placement for teachers at all levels from kindergarten through high school. He is a faculty member in the Department of Education and becomes well-acquainted with all teacher candidates during their years in the college. Furthermore, he has wide contacts with school administrators throughout Minnesota and other states.
ACADEMIC ADMINISTRATION

ADMISSION TO THE COLLEGE

APPLICATION for admission to Macalester College should be addressed to the Director of Admissions. It should be accompanied by an application or service fee of $10.00. This is not refundable.

ENTRANCE REQUIREMENTS

THE ENTRANCE requirements of Macalester College are in harmony with the standards of the North Central Association of College and Secondary Schools.

In general, the admission of students to Macalester College is based upon the following factors:

1. Graduation from an accredited high school with a scholastic record and test scores which indicate that the student is likely to succeed in college.

2. All applicants for admission to the College as freshmen must take the Scholastic Aptitude Test section of the College Entrance Examination Board tests and have the results forwarded to the Admissions Office of the College.

Information about the tests may be obtained from the high school counselor or by writing to the College Entrance Board, Box 592, Princeton, N.J. A Bulletin of Information, containing rules for the filing of applications, the payment of fees and a listing of the examination centers, will be provided free of charge by the College Board Office. The College prefers that the tests be taken no later than January of the student’s senior year.

3. Recommendation as to character, intellectual ability and purpose, by the school superintendent, high school principal, or counselor.

4. Additional evidence regarding character and personality, intellectual curiosity, seriousness of purpose, breadth of interests and activities, and special fitness for pursuing one
of the programs offered at Macalester. Such evidence would come from persons who know the student outside of school, such as employers, from records of extra-curricular activities and church activities, and from any other available sources.

An applicant is not required to present specified units of credit for admission, since Macalester College believes that the quality of scholastic performance is more important than subject requirements as a criterion for selecting its students. However, because of the character of study later required in the College, applicants who present a minimum of four years of English, two years of a single foreign language, two years of mathematics, one year of history, and one year of a laboratory science will find the least difficulty in making the transition to college.

Students whose records are somewhat doubtful will be considered for admission upon special recommendation of the high school officials and other evidence of ability for successful work. Special tests, in addition to those given in the state testing program, may be required of such applicants. A personal conference is usually held with each of these applicants.

Veterans and other older students may be admitted without high school graduation if there is substantial evidence of ability to do successful work in college.

All new students must make an advance payment of $50.00 to be applied on the tuition account soon after being accepted.

**ADMISSION BY TRANSCRIPT OR DIPLOMA**

*From Accredited High Schools and Academies.* — Graduates of accredited high schools and academies are admitted, without condition, to the freshman class, subject to the requirement of the preceding paragraphs upon presentation of transcripts certifying such graduation. Accredited schools are those on the list of the North Central Association of Colleges and Secondary Schools, the list of Minnesota high schools prepared by the State Department of Education and similar lists of approved high schools of other states.

*From Other Colleges.* — Students transferring to Macalester College from accredited institutions of college grade must present evidence of honorable dismissal and an official transcript of previous collegiate and preparatory record.
From Other Institutions of Higher Learning.—Credits from other institutions of higher learning including general colleges, teachers colleges, professional schools and polytechnic institutes are to be evaluated according to the nature and quality of the work presented as judged by the Registrar. Students who have attended non-accredited institutions must have their work validated by examination or by showing competency to carry advanced work successfully. Award of credit in such cases may be delayed for one or two semesters awaiting such validation.

ADMISSION BY EXAMINATION

Students not presenting transcripts as provided for above must present a course of study equal to a four-year high school course. Such students will be examined in the course presented by them and will be admitted to freshman standing on passing the examination satisfactory. These examinations will be given by special appointment.

ADVANCED PLACEMENT PROGRAM

Students whose scores on the College Board Advanced Placement Examinations are rated 3 (creditable), 4 (honors), 5 (high honors) shall be considered as possible candidates for advanced placement and appropriate credit. Freshmen who wish to apply for advanced placement should make arrangements during their initial registration with the head of the department(s) involved for conferences to determine their status.

A maximum of 24 semester credits may be counted toward a bachelor’s degree. A grade of 2 will receive no credit but the department head may recommend some exemption. A grade of 1 will carry neither credit nor exemption.

Awarding of credit may be deferred until the end of the academic year in order to give the student a chance to prove himself, if this is deemed wise.

ADMISSION OF VETERANS

Macalester College is an approved institution of higher education for the training of veterans of World War II under the various provisions of the Servicemen’s Readjustment Act of
1944 (the G.I. Bill of Rights). It is also approved under Law 550 which relates to veterans more recently in service. All veterans who have entered service following World War II should inquire at their local Veterans Administration Office or at the office of the Macalester Veterans adviser as to their eligibility for educational benefits.

Credit for Military Training and Experience. — The Guide to the Evaluation of Education Experiences in the Armed Services produced by the American Council on Education is used as a basis for awarding credit for training and experience in the military services.

REQUIREMENTS FOR GRADUATION

MACALESTER College offers courses leading to the degree of Bachelor of Arts. This degree covers the major courses in the curriculum. The College also offers the degree of B.S. in Business, in Elementary Education, in Art Education, in Physical Education, in a Functional Major Related to Nursing, and in Medical Technology, and an advanced degree entitled Master in Education.

The student is responsible for informing himself concerning the College rules and the various requirements for graduation and for making his plans conform therewith.

During the senior year, candidates for all degrees shall pass a comprehensive examination covering in a broad way the learning they may reasonably be expected to have achieved in the following areas:

1. The departmental major.
2. The general cultural fields with which a graduate from a liberal arts college should have made significant contact, either in courses taken or through outside activities.

The examination may include portions which are written, oral or of a performance type.

Candidates shall, throughout their college course, show reasonable ability to read, write, and speak the English language. Before admission to the junior class they shall pass tests of competence in English and speech. In English the test will consist of an essay of about 500 words, set by the department of the student's major and administered by the English department. Students must satisfy the requirements of both departments. Those who fail may try again once each semester, but they must satisfy the Dean's office that they are making preparation, either through an evening class or private tutor.
Residence requirements are: —

A candidate for the bachelor's degree shall have been in attendance at Macalester College for the full four years, or shall have transferred advanced credit from approved institutions as set forth in the preceding heading, the amount of such transferred credit not to exceed sixty-four credits or two full years, and the number of years spent in Macalester College to be not less than two except in the Condensed Education Program. The Senior year must in all cases be spent in residence at Macalester College, or in an approved professional school if the first three year credits have been secured in attendance at Macalester College.

Exceptions are: —

In the event that a student is unable to meet the requirements for graduation by reason of a change made therein during his college course, or for other reasons, he may apply to the Cabinet for such modification as the Cabinet finds to be suitable under all the circumstances.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS

Total Academic Credits: (semester hours).............................126
A minimum of 32 credits in upper class courses numbered 300 or above.

Honor Points: (A=3, B=2, C=1, D=0, F=0) .........................126
An overall honor point average of at least 1.00, including all courses attempted.

Basic Requirements for Cultural Distribution: ...................... 66

Freshman English: English 103, 104. Students whose work in English 103 is of superior quality may be excused from 104 upon recommendation of their instructor. Students whose native language is other than English may take English as a foreign language .................. 6
Literature: English literature or humanities in courses numbered 237 or above, or foreign literature in the original language in courses numbered 300 or above ........................................ 6

Foreign Language: 2 years in same language .................................................. 14
(2 years in high school plus 6 credits on the 201-202 level, or 4 years of the same language in high school may also satisfy this requirement upon validation by examination or successful completion of advanced courses. Students who have successfully completed 2 years of a single foreign language in high school will receive one-half of the total credits on the 101-102 level in college, i.e., 2 credits per semester.)

Science or Mathematics ........................................................................ 12
Science is classified in two divisions.
A. Astronomy, Biology, Geology
B. Chemistry, Mathematics, Physics
If one eight-credit course or two four-credit courses are taken in A, the additional four credits must be elected from B, or vice-versa.
Eligible eight-credit courses or sequences are:
Astronomy 103 plus 104; Biology 141R and 204, or 141R and 142 or 143; Chemistry 101-102; Geology 101-102 or 112 plus 113; Mathematics 121-122; Physics 201-202.
Eligible four-credit courses are:
Astronomy 103, 104; Biology 141R, 142, 143, 202, 204; Chemistry 110; Geology 112 or 113; Mathematics 116, 120; Physics 101 for music majors only, 109R, 210.

Social Science, and Psychology 201: .................................................. 12
One course from at least four fields. Courses are to be chosen from the following: Economics 231; Geography 231R; History 102R, 203 or 204; Political Science 231; Psychology 201R; Sociology 231R or 233-234.

Philosophy: 205, 220, 231 or 232 and in some cases 309 ....................... 3
Religion: ........................................................................ 8
Plan I.  
a) Religion 103R, Old Testament History  
c) One other course in Section A, to be selected from 309R, 311, 314R  
d) One course in Section B or Section C

Plan II. (This plan is required of majors and minors in the department)  
a) Religion 103R, Old Testament History  
b) Religion 201R, Life and Teaching of Jesus  
c) One other course in Section A, to be selected from 203R, 309R, 311, 314R  
d) One course in Section B or Section C

Fine Arts*: The completion of one of the following options:  
1. Speech 151, 152 (History of the Theatre) .................. 2  
2. Art 151 (Principles of Art) .................................. 3  
3. Art 321, 322 (History of Art) ................................. 3  
4. Art 251, 252 (Experiences in Art) .......................... 2  
5. Music 251 (Appreciation of Music) .......................... 2  
6. Music 205 (Church Music) .................................... 2

Physical Education**: Two years activity courses ............. 2  
Personal Hygiene 151 ............................................. 1  
(Those taking Biology 204 are exempted from 151)

Senior Seminar ...................................................... 3

A Major Subject: See requirements as listed in Catalog in each department. Grades in all major courses “C” or better. (Not more than 44 credits may be presented as a part of the 126 required.)

A Minor Subject: Approved by the advisor in the major. See Catalog for statement of departmental minor requirements. All courses with a grade of “C” or better.

* Students with a major in Art, Music, or Speech are considered as meeting the Fine Arts requirement in their major.

** Excepting veterans who submit evidence of having had basic military training.
REQUIREMENTS FOR THE DEGREE OF
BACHELOR OF SCIENCE IN BUSINESS

Total Academic credits ........................................ 126
(including 32 hours of upper class credit)

Honor Points .................................................... 126
(Or an overall average of “C” on all credits attempted)

Basic Requirements:
The same as for the A.B. degree excepting for Science, Social
Science, Fine Arts, Psychology, and Foreign Language, which
are as follows:

Science: Courses of Academic Type including laboratory .... 8
Additional in science or in courses selected from the
following groups: Mathematics, Accounting and
Statistics. Mathematics of Investments or College
Algebra .......................................................... 9
(Majors in Business Education will take only six.)

Foreign Language: one of the following: .................... 8
Two units in a foreign language in high school, or
one year in a foreign language in college.

OR
Six additional credits in English Literature or Hu-
manities, making a total of 12, or in a foreign litera-
ture in translation.

Social Science .................................................... 12
To be selected from: Economics 231, 232; Sociology
231; Political Science 231; History 203, 204 or 102
representing three departments.

Speech 185R or Speech 199 ................................... 2-3
Or demonstration of special ability by examination
by the Speech Department.

Psychology 201 .................................................. 3

Fine Arts ......................................................... None

A Major in Economics and Business Administration .... 45-50
A Minor approved by the major advisor and according to require-
ments of the department. All courses with a “C” grade or better. See
department concerned.
REQUIREMENTS FOR THE DEGREE OF
BACHELOR OF SCIENCE IN ELEMENTARY EDUCATION

Total Academic Credits (Semester Hours) .................................. 130
Total Honor Points (A=3, B=2, C=1, D=0, F=0) ......................... 162.5
An overall point average of at least 1.25 including all courses attempted must be attained before admission to student teaching.

Credits to be distributed as follows:

- Freshman English .......................................................... 6
- English Literature or Humanities ....................................... 6-12
- Religion ........................................................................ 8
- Philosophy ...................................................................... 3
- Psychology 201 .................................................................. 3
- Social Science distributed among four fields ......................... 12-18
- Science ........................................................................... 12
- Physical Education and Hygiene ........................................ 3
- Foreign Language or alternate requirement ......................... 12-14
- Major in Elementary Education ........................................ 41-43
- Art 151 ........................................................................... 3
- Senior Seminar ............................................................... 3
- Speech ............................................................................. 2
- Electives ......................................................................... 6-10
- Total ............................................................................... 130

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF
SCIENCE IN ART EDUCATION

Total Academic Credits ......................................................... 126
as follows:

- Freshman English .......................................................... 6
- English Literature or Humanities ....................................... 6
- Religion ........................................................................... 8
- Philosophy ...................................................................... 3
- Social Science and Psychology 201. (Same as for the B.A. degree) 12
- Science ........................................................................... 12
- Physical Education and Hygiene ........................................ 3
- Senior Seminar ............................................................... 3
- Foreign Language ............................................................ 8
(or two years in high school)
Major in Art (See Art Department for details) ........................................... 35-44
Minor in Education ................................................................. 16-21
(See Education Department for details)
Electives ................................................................. 5-12

Total ................................................................. 126

The major in Art will include Art 151 or 152 (3), Art 161 or 162 (3), 201-202 (6), Art 231-232 (6), Art 371 (3), Art 321-322 (6), Art 431 (2), and Electives in Art (6).

**THE BACHELOR OF SCIENCE DEGREE WITH A FUNCTIONAL MAJOR RELATED TO NURSING**

The degree is designed only for graduates of the R. N. diploma program sponsored by Macalester College with Abbott, Northwestern, and St. Barnabas Hospitals. This program is administered by a committee representing the College and the three participating hospitals.

The students in this program have earned 31 credits by completing the college courses taken in their freshman year. The college also gives credit to these students for the instruction and laboratory experiences given by the schools of nursing. The exact amount of this credit is determined by the committee administering this program. It will take the student one and one-half to two years to earn the additional credits necessary for completion of the graduation requirements.

The student in this program must meet the following requirements of the college for graduation.

A. 126 credits, 32 of which must be from courses numbered 300 or above.

B. 126 honor points.

C. In addition to courses taken previously, the student must take the following courses in general education, or their equivalent:
The functional major related to nursing shall consist of at least 24 credits in courses which may be selected from several departments. These courses are chosen subject to the approval of the faculty advisor. They must be selected so as to constitute an integrated and coherent functional plan. Among the types of courses which the committee recommends are those in areas which will advance the student's knowledge of the biological sciences, personnel relationships, personality adjustments, and methods of assisting others in learning. For example, these courses may include Human Growth and Development, Materials and Methods of Teaching, Personality and Mental Hygiene, Genetics and Eugenics, Embryology, Marriage and the Family, and courses in History and Political Science. The Committee may well recommend other courses to students, depending on their individual needs and future plans.

**REQUIREMENTS FOR BACHELOR OF SCIENCE DEGREE IN PHYSICAL EDUCATION**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 103, 104</td>
<td>6</td>
</tr>
<tr>
<td>Biology 141 and 204</td>
<td>8</td>
</tr>
<tr>
<td>Science — Physics, Chemistry or Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 201 and 6 credits in two other Social Science departments</td>
<td>9</td>
</tr>
<tr>
<td>Psychology 314 or Sociology 310</td>
<td>3</td>
</tr>
<tr>
<td>Religion</td>
<td>8</td>
</tr>
<tr>
<td>Speech 185</td>
<td>2</td>
</tr>
<tr>
<td>English Literature or Humanities</td>
<td>6</td>
</tr>
<tr>
<td>Senior Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>
Journalism, Foreign Language, English or Humanities ..........6-8
Major ................................................................. 28
For details see Department of Physical Education
Minor (if not Education) ............................................. 15-18
Education as minor (for teachers) ................................. 21
For details see Department of Education

MEDICAL TECHNOLOGY

Five-Year Plan
All requirements for the A.B. degree, with prescribed courses in science, with the A.B. degree at the end of four years, and the B.S. degree at the completion of the fifth year at the Charles T. Miller Hospital.

Four-Year Plan
Three years at Macalester College (with certain reductions in general education requirements, see Catalog, p. 73) and a fourth year at the Charles T. Miller Hospital. At the end of the four years, the Bachelor of Science degree is awarded.

REQUIREMENTS FOR THE DEGREE OF MASTER IN EDUCATION

1. Graduation from Macalester or other accredited college with sufficient work in Education to qualify for a Minnesota teacher’s certificate. Otherwise additional requirements must be met.
2. Acceptance for candidacy by the Fifth Year Committee of the College.
   A. For candidates in Secondary Education:
      31 credits (semester hours) approved by advisors and committee.
      10-13 credits in Education beyond basic certification requirements.
      At least 12 credits in an academic division in which a foundation of at least 12 semester hours has been established. More may be taken in this area, 6-9 credits which may be elected with approval.
      All of the above work should bear some established relationship to the candidate’s teaching responsibilities or plans.
B. For candidates in Elementary Education:
6 credits in Education beyond basic certification requirements.
6 credits in Psychology.
19 credits in an academic concentration.

For all candidates:
An average of B in all courses taken.
One formal, well-documented paper, or original production.
A comprehensive examination, both written and oral.

For details, see Catalog, Department of Education.

RESTRICTIONS ON CHOICE
A given course may not be counted toward the satisfaction of both major and minor requirements.

The following courses are not counted toward a major or minor: Chemistry 110, English 103, 104, French 101–102, German 101–102, Greek 101–102, History 104R, Latin 101–102, Mathematics 111, Physics 101, 109, Psychology 101R, Religion 105, Russian 101–102, Spanish 101–102, Sociology 200. See also Biology 141, 142 in departmental descriptions.

Not more than six credits in Ensemble and/or applied music and/or Choral Reading may be counted toward graduation by students who are not music majors or minors. See Music Department for regulations for music majors and minors.

Five Students Required for a Class. — The College does not hold itself bound for instruction in any elective course for which fewer than five students have registered. Such classes, may however, be organized at the option of the department head.

HONORS PROGRAM
I. General Honors
Any person who earns a grade point average of 2.3 and who meets all of the other requirements for the degree for which he is a candidate will be granted that degree “cum laude.”

II. Departmental or Divisional Honors
In order to become a candidate for departmental or divisional
honors, a student must ordinarily apply for candidacy to the student honors committee some time during the second semester of the junior year. In order to be eligible for candidacy a student must have a grade point average of at least 2.2. After a student has been admitted to candidacy he may qualify for honors in the following ways:

1) Cum Laude with Departmental or Divisional Honors. To qualify a student
   a) Must have a grade point average of 2.3.
   b) Must participate in a seminar or individual course work for not less than 2 or more than 6-credit hours. The seminar may be departmental, divisional, or it may by a general seminar approved by the student honors committee. The faculty person in charge of an individual course or seminar shall make a brief report to the student honors committee on the nature and quality of work done by each honors candidate in that course or seminar.
   c) Must write a thesis under the supervision of a member of the department or division in which he is majoring and must have this thesis approved by the student honors committee.
   d) Must have a satisfactory rating on the graduate record examination in his major field, or an equivalent examination in fields where the graduate record examination is not available. The term satisfactory shall be defined by the student honors committee in consultation with the department or division concerned.

2) Magna Cum Laude with departmental or divisional honors. To qualify a student
   a) Must have a grade point average of 2.6
   b, c, d) Same as for Cum Laude with Departmental or Divisional Honors
   e) Must show competence in an oral examination on his thesis before a three man committee. This committee will be designated by the student honors committee and must contain at least one person outside the department of the student's major.
3) Summa Cum Laude with departmental or divisional honors. To qualify a student:
   a) Must have a grade point average of 2.75.
   b, c, d) Same as under 2.
   e) Must distinguish himself in an oral examination on his thesis before a three man committee. This committee will be designated by the student honors committee and must contain at least one person outside the department of the student's major.

Registration in departmental or divisional seminar, or for Independent Readings is in the first semester of the senior year.

The Honors Thesis is to be a substantial report or thesis in a departmental or divisional seminar, or in Independent Readings, or an acceptable SPAN paper.

The Honors Thesis shall represent advanced independent reading and analysis.

Registration for Honors Thesis is optional in the second semester of the senior year, with one or two credits for a substantial honors thesis growing out of a seminar or Independent Readings.

RULES CONCERNING REGISTRATION

STUDENTS are required to register by the beginning of each semester. In case of delay in registration beyond the registration days indicated in the college calendar, a fine of one dollar is imposed for the first day and fifty cents for each subsequent day.

Students approved for admission to Macalester College may register within the first two weeks (in Summer Session, one week) after the first day of classes in each semester. Students who wish to enter after this date may do so only upon special permission and shall carry proportionately restricted loads.

Students who have failed in half the work of one semester, counted by hours, except freshmen in the first semester of residence, may not register for the following semester.

Full-time students who in their freshman year have not earned 15 honor points and those who have completed two years of work and have not earned 40 honor points may not re-register.
Freshman students are placed upon academic probation if, at the end of either of the first two semesters in residence, they have not made an accumulative honor point average of .70 or better. Sophomore students are placed upon academic probation at the end of any semester if they have not achieved an accumulative honor point average of at least .80. Juniors are placed upon academic probation by the Committee on Admission to Senior College if they do not achieve at least a cumulative honor point average of 1.00 at the end of any semester. Seniors must maintain an accumulative honor point average of 1.00 or above or be placed on probation. Seniors shall not be eligible as candidates for a degree until, or unless, they have attained this average which must be accomplished at least one semester before they are eligible for graduation. For graduation a student must attain to an accumulative honor point average of 1.00 in all work attempted. Students are eligible to be removed from probationary status upon bringing their total honor point average up to the level of the minimum required for good standing in their respective classes. Students who have not removed themselves from probation within one semester after being placed thereon may not re-register without special permission. If granted permission to re-register, they shall continue upon probationary status during the following semester.

While on probation, students must carry a reasonable program of courses, must restrict their extra-curricular and outside work and may suffer loss of certain privileges such as rights to scholarships, or employment by the College.

The College reserves the right to exclude from attendance students whose influence is undesirable.

EXAMINATIONS AND REPORTS

Examinations are held at the close of each semester. A record is kept of each student's grades, a copy of which is sent to the parents or guardian at the middle and end of each semester.

Students who obtain a passing mark in a course are graded as follows: A, B, C, or D, which mean excellent or distinctly superior, very good, good or average, and poor, respectively. Students who do not reach a passing mark are graded as follows: Condition (Con.), Incomplete (Inc.) or Failure (F). Condition implies that the student
has failed in the final examination and that the deficiency may be removed by his passing in a second examination to be given within the first three weeks of the next semester in residence. If, however, a student's grade is D, an F may be given on failure in one examination. An Incomplete means that the mark is withheld by the instructor because the work required has not been completed. A mark of Incomplete becomes a mark of F if not completed in the first six weeks of the next semester in residence. F means failure in the course. In cases of failure students may obtain credit only by repeating the course. A Condition becomes an F upon failure to pass the second examination.

For individual and condition examinations a fee of one dollar shall be paid for each examination at the office of the Comptroller. If a student does not return to Macalester within three years and does not make up a condition or incomplete by special arrangement while not in residence within three years he shall lose the right to make up such work.

CLASSIFICATION OF STUDENTS

UNDERGRADUATES: Students who are candidates for the bachelor's degree are classified as freshmen, sophomores, juniors, seniors, condensed elementary education students, and condensed secondary education students. Requirements for freshman standing are described under Admissions beginning on page 45. Sophomore standing is granted upon the completion of 24 credits and 24 honor points. Junior standing is granted upon the completion of 56 credits and 56 honor points plus certification from the Speech and English Departments as having passed proficiency tests in both departments. Senior standing is granted upon the completion of 94 credits and 94 honor points.

Master in Education: see pages 84 and 90; Condensed Elementary Education: see page 90; Condensed Secondary Education: see page 83.

CHANGE OF COURSE

REGISTRATION fixes the course of study for the student. Within two weeks from the first day of classes in each semester, change is permitted without penalty fee with the written consent of
the instructors concerned and the student's adviser. "Change of program" cards are obtained in the Registrar's office. Dropping a subject comes under this rule. A course abandoned without formally dropping it will receive a grade of F. The foregoing policy applies also to students who leave the College without officially cancelling. After two weeks, changes must be approved by the Cabinet as well as the above mentioned persons. Courses dropped after the first two weeks must carry the notation WP or WF depending upon the current marks reported by the instructor. No course may be dropped after November 20 in the first semester or after April 10 in the second semester except for reasons of health or other personal hardship. During this period failure to do good work in the course by itself shall not be accepted as a reason for withdrawal. Changes in all cases do not become official and effective until student and instructor receive notice of the completion of such change from the Registrar's office.

**UNFINISHED COURSES**

Students who drop a year course (one in which the numbers representing the course are hyphenated in the Catalog listing) at the end of one semester lose all credit in that course unless some distinct phase of the subject is completed; in which case, the head of the department concerned may certify credit to the Registrar's Office for recording.

**CHAPEL AND CONVOCATION ATTENDANCE**

Attendance upon the college chapel service and convocation each week is required of all students except those excused by the Dean of the College.

**LIBRARY SERVICES**

Library services of the college support and extend the academic programs of its students, assist in meeting the teaching and research needs of its faculty, and provide study facilities, research materials, and recreational reading for the college community. Housed in the expanded Weyerhaeuser Library the collection now numbers about 95,000 cataloged volumes. The library receives more
than 675 current periodicals, journals and newspapers. The present rate of growth approaches 6,000 new titles annually. Expenditures per student have increased steadily from a level of about $35.00 per year to over $70.00 currently, and will grow to a planned figure of about $90.00 per student in 1963.

During regular sessions the library is open and staffed 85 hours per week. Library hours are:

**Regular Session**
- Monday through Thursday: 7:30 a.m. to 10:30 p.m.
- Friday: 7:30 a.m. to 5:30 p.m.
- Saturday: 9:00 a.m. to 5:00 p.m.
- Sunday: 2:00 p.m. to 10:00 p.m.

**Summer Session**
- Monday through Friday: 8:00 a.m. to 5:00 p.m.
- Saturday, Sunday: Closed

*Holiday and Reading Day schedules as announced.*

Trained librarians who staff the Weyerhaeuser Library provide expert assistance to students and faculty in bibliographic search, book selection, reference work, and related areas of academic library service. Members of the staff conduct initial student visits to the library as a part of the freshman orientation program; appear in classes at the invitation of faculty members to discuss with students various methods of making effective use of the library’s resources; and instruct students on either a group or individual basis to develop with them effective search techniques for fully exploiting the facilities of the library. The continuing goal of the library staff is to develop in Macalester students lifelong habits which will make the intelligent use of books an essential part of each individual’s college experience.

The library is so organized that all students have open access to the main book collection, a growing reference section, all currently received periodicals, a small reserved-book collection, a curriculum laboratory, and a recently established public affairs room where uncataloged government documents, pamphlet runs, annual reports, ephemeral publications, college catalogs and various indexes are located. Typewriters, micro-readers, and photo-copying equipment are available also to support student and faculty use of the library.
Special collections of the library include the memorial library of Edward Duffield Neill, strong in early American and Minnesota history; the Arthur Billings Hunt books on American hymnology; the Gustavus Loevinger Shakespeare collection; the Stella Louise Wood collection of juvenile literature; the Tartan Room housing college archival materials; a new rare books room; a growing fine arts collection of Macalester undergraduate work; and collections of art prints and phonograph records. The library continues to rely on gifts and special purchases to strengthen subject collections in particular areas.

Important each year for the day-to-day operation and maintenance of the library are the 40 to 50 student assistants who each work 10 to 12 hours weekly. Every student interested in librarianship as a career should seek employment as a student assistant early in his college experience.

Because of its urban location library services at Macalester are backed up by major research collections accessible from the campus. These include: the James Jerome Hill Reference Library, the St. Paul Public Library, the library and manuscript collections of the Minnesota Historical Society, the Minnesota State Law Library, the University of Minnesota Libraries, the Minneapolis Public Library and special libraries in the metropolitan area.

For a description of the library's facilities see General Information, Buildings.
COURSES OF STUDY

I. AREA STUDIES

Macalester College participates in the Louis W. and Maud Hill Center of Area Studies, established in 1953, as a cooperative project of the College of St. Catherine, the College of St. Thomas, Hamline University, Macalester College, and the Hill Reference Library. In a three-year period, Area Studies
in Russia and the Soviet Union, the Middle East, the Fart East are offered to upper-classmen by a staff of eight qualified persons, including a coordinator, from the four cooperating colleges. These Area Studies are inclusive and integrated studies of a civilization or civilizations. This cooperative venture is designed as a creative and unique contribution to American undergraduate education.

Assignment of credits in the Area Studies on majors or minors in the various social sciences will be determined in each instance by the Department concerned. Students are required to consult with the respective department heads with regard to the precise number of credits to be so allocated and this allocation must be agreed to by the Dean of the College at the time of registration.

401-402. AREA STUDY OF RUSSIA. A comprehensive study of Russia, designed to give a scientific and objective understanding of the Soviet Union, of its historical origins, and of its impact upon the world. The study of the Russian language, previously or concurrently, is desirable, but is not required.

A major in Russian Studies consists of a minimum of 25 credits, which will include the Area Study of Russia (6 credits) and 16 credits in the Russian language beyond the beginning course in Russian (8 credits) and one three-credit course, in line with the student's major objectives, and approved by the major advisor.

Students electing this major must also have a minor in history, political science, or one of the languages (depending upon their particular interests).

The following two courses are not offered in 1962-63:

403-404. AREA STUDY OF THE FAR EAST. A comprehensive study of China, Japan, and South East Asia historically and analytically, with particular emphasis on the impact of western civilization on Asia and on the significance of Asia in contemporary world politics and civilization.

405-406. AREA STUDY OF THE MIDDLE EAST. A comprehensive study of the countries of the Middle East historically and analytically, with particular emphasis on the impact of western civilization on the Middle East and on the significance of this area in contemporary world politics and civilization.

II. DIVISIONAL STUDIES

THE HUMANITIES PROGRAM

Committee: Sundheim, Chairman; Blakely, Livingston, Palmer, Thompson
Staff: Albion, Blakely, Cazavos, Dasset, Jones, Livingston, Palmer,
Sundheim, Thompson, Wood

The main object of this series of courses is to introduce the student to the great masterpieces of world literature and to provide him with a comprehensive view of the breadth and depth of our literary heritage. The courses
are organized to illustrate world cultures and movements, so that the epoch-making works selected for careful study may be understood in context.

Members of Division I (the Humanities) cooperate in the teaching of these courses.

Six credits in these courses will fulfill the General Education requirement of the college in literature. Or a combination of these courses with English or foreign literature courses will be accepted to fulfill the requirement.

A major in Humanities consists of a minimum of 30 credits (18 credits in courses numbered 300 or above; 12 credits in courses numbered 200 or above) to be distributed as follows

I. 18 credits from the Humanities program, including Humanities 237, 238 and 451.

II. 12 credits to be chosen from the following groups
   a) 6-9 credits from English literature courses numbered 353 or above, at least 3 of which are to be Literature in the United States (Eng. 353, 354)
   b) 3-6 credits from the following: Art 251, 252, 321, 322; Music 203, 204; 251; 307, 308; Philosophy 231, 232, 311, 321, 325, 326, 329, 331; Religion 312 R.

For those majoring in Humanities, a minor in a foreign language is required. If those majoring in Humanities have a second minor in English, all 12 credits must be from Art, Music, Philosophy, Religion.

A minor in Humanities consists of a minimum of 15 credits from the Humanities Program and must include either Humanities 237, (238) or 351. It may accompany any academic major.

237, 238. INTRODUCTION TO THE HUMANITIES. The first semester will cover some of the representative artistic expressions of the classic, medieval and Renaissance periods; the second semester will extend from the Renaissance to contemporary culture. Either semester, three hours a week, three credits. It is strongly recommended that Art 251 or 252 be taken concurrently with this course.

253. MASTERPIECES OF THE NINETEENTH CENTURY. Reading and discussion of great works of European fiction, drama, and poetry, with special emphasis on the writers of France, Germany, and Russia. Prerequisite, twenty-four credits or consent of instructor. First semester, three hours a week, three credits.

254. THE LITERATURE OF GREECE AND ROME. Reading in English of the masterpieces of ancient literature, chosen for their interest and excellence, as well as for their influence on later life, literature and art. Prerequisite, twenty-four credits or consent of instructor. First semester, three hours a week, three credits.

264S. MASTERPIECES OF WORLD LITERATURE. A study of some of the world classics with emphasis on library technique and the history of

351-352. GENERAL HUMANITIES. A course in literature and music (with some reference to the visual arts) for juniors and seniors whose major interest is in other departments than English. Prerequisite, forty-five credits. Humanities 351 is not open to students who have taken English 251 or Humanities 237, 238. One year, three hours a week, six credits. It is strongly recommended that Art 251 or 252 be taken concurrently with this course.

354. THE CONTINENTAL RENAISSANCE. A study of the Renaissance movement which marks the transition from the medieval to the modern world in Western Europe. Prerequisite, forty-five credits or consent of instructor. Second semester, three hours a week, three credits.

355. MASTERPIECES OF THE SEVENTEENTH AND EIGHTEENTH CENTURIES. Study of great works by French, German, and English writers. Prerequisite, forty-five credits or consent of instructor. Second semester, three hours a week, three credits.

358. LITERATURE OF THE EAST. The major purpose of this course is to provide some knowledge of the literature and civilizations of China, Japan, India, Persia, and Arabia. Readings include Chinese short stories, Confucius, Lao Tse, the poetry of Li Po. Prerequisite, forty-five credits or consent of instructor. Second semester, three hours a week, three credits.

451. HUMANITIES SEMINAR. By arrangement with the chairman of the Humanities Program. Second semester, three hours a week, three credits.

**INTERNATIONAL STUDIES**

Professors Dupre (Coordinator), Armajani, Berry, Dodge, Johnson, Mitau, Young and Staff

The program of International Studies, inaugurated in 1949, is administered by a coordinator and a committee representing the division of the social sciences. The program offers a functional major in International Relations within the division of the social sciences.

The program also has jurisdiction over and integrates all curricular and extra-curricular activities of the college that relate to international affairs. These include the Area Study of Russia, the Latin American Area Program, the Canadian-American Conference, the Mexican Caravan, the Quebec Caravan, the foreign student program, SPAN and other foreign study programs, the International Relations Club, and Political Emphasis Week when it is devoted to international concerns.

The functional major in International Relations consists of twenty-four credits in 300 courses (two exceptions are possible in courses in geography),
included in the panel of courses in the program of International Studies. Basic requirements are International Politics (Political Science 351), International Organization (Political Science 352), American Diplomatic History (History 341), and International Economics (Economics 356). The functional major is designed for (1) students who plan a career in the foreign service and other governmental agencies, in the service of international organizations, in journalism, in the foreign service of banks, industrial or commercial organizations, in the missionary field, in the educational field, and, for (2) students who wish to obtain a general understanding of international relations for a more intelligent citizenship in our modern world community.

Students interested in this functional major should consult with the coordinator of the program of International Studies for further information.

For the program “New Careers for Women in Business and Government (including service abroad)” see the Department of Political Science.

III. DEPARTMENTAL COURSES

ART AND ART EDUCATION

PROFESSORS CAPONI, BLAKELY, RUDQUIST, MISS PETERS

The Art department has a twofold objective: First to aid the student who wishes to enlarge his appreciative powers and second to give basic training to the student who feels that a career in some phase of art-practice will be his life work. Therefore, in studio classes which emphasize a particular technique, that technique is reinforced by theory and history; and in theory classes, where possible, the theory and history are supported by practical exercises designed to further appreciation.

THE A.B. PROGRAM

Major:
A total of 35 credits which must include the following: Courses 231, 232 (6), 201, 202 (6), 161 or 162 (3), 151 or 152 (3), 371 (3), 321, 322 (6), and 431 (2).

Minor:
A total of 18 credits which must include the following: Courses 151 or 152 and 321, 322.

THE B.S. PROGRAM

Requirements for the B.S. degree in Art Education:
35 credits in Art—same as above (major)
16–20 credits in Education (minor) see page 82.
8 credits of foreign language (The rest of the academic requirements are the same as for a B.A.)

RELATIONS WITH MINNEAPOLIS SCHOOL OF ART

To further enrich the Art curriculum and expose the student to a greater
variety of approaches in art, Macalester makes it possible for its students to
take courses at the Minneapolis School of Art (from three to twelve credits).
Choice of courses should vary with individual needs and must be approved
by the Art Education advisor.

151. PRINCIPLES OF ART. A study of basic principles underlying all
the arts. Three hours a week, three credits.

152. ART APPRECIATION LABORATORY. Practical work, supple­
mented by discussions and demonstrations. Two two-hour periods of labora­
tory work and one hour of discussion, three credits.

161, 162. DRAWING. A basic course in drawing, stressing various ap­
proaches and use of materials. Three two-hour periods a week, three credits
a semester.

201, 202. SCULPTURE. Practical work in sculpture, using various tech­
niques and materials. Two three-hour periods a week, three credits a semester.

231, 232. PAINTING. Exploration of the basic considerations in painting,
using primarily oil paint on canvas. Three two-hour periods a week, three
credits a semester.

251, 252. EXPERIENCES IN ART. The visual arts in the context of
Western cultural history. Two hours a week, two credits a semester.

303, 304. ADVANCED SCULPTURE. Continuation of course 201, 202,
with more emphasis on personal approach. Two three-hour periods a week,
three credits a semester.

305, 306. ADVANCED PAINTING. Continuation of course 231, 232,
with more stress on individual approach. Three two-hour periods a week, three
credits a semester.

309, 310. GRAPHIC ARTS. Wood and linoleum block-printing, and other
graphic processes. Three two-hour periods a week, three credits a semester.

El. Ed. 320R. CREATIVE ACTIVITIES FOR ELEMENTARY CHIL­
DREN. Experiments with various media, and the organization of teaching ma­
terials and techniques of teaching. Two two-hour periods a week, two credits
a semester.

321, 322. HISTORY OF ART. The first semester treats Western art
through the Renaissance; the second semester from the Baroque through con­
temporary art. Prerequisite, junior standing. Three hours a week, three
credits a semester.

335. AESTHETICS. See Philosophy 335.

371, 372. DESIGN AND COLOR. Broad exploration of elements and
standards of design. Prerequisite, Course 161. Three two-hour periods a week,
three credits a semester.

401, 402. SPECIAL PROBLEMS FOR ADVANCED ART STUDENTS.
One to three credits; two hours to six hours a week.

431. SEMINAR. Required of all majors, two credits.

Ed. 499. TEACHERS' COURSE. See Education 449.
The courses offered are planned to serve two main purposes. One, to meet the need of liberally educated men and women by giving them a deeper appreciation of the interrelationships and interdependencies of all life, and a better understanding of themselves toward more healthful and effective living in our complex society. Two, to enable the student majoring or minoring in biology to gain mastery of fundamental knowledge in the field of his major professional interest.

The following courses are required for a major in biology: 141, 142, 143, 303, two credits of 409 or 410, and four additional courses of 200 or above to be selected in conference with a member of the biology staff; mathematics 120 or 122. A minor in one of the other natural sciences or mathematics is recommended.

The requirements for a minor in biology include courses 141, 142, 143, one course numbered 200 or above and one credit of 409 or 410.

Biology 141 is prerequisite to all courses except 202 and 204.

Non-science majors who desire to take courses in biology to fulfill science requirements may select from the following:

1. For those desiring only 4 credits of biology toward meeting graduation requirements, Courses 141, 202, or 204 may be taken as terminal courses without prerequisites.

2. For those desiring 8 credits of biology toward meeting graduation requirements, Courses 141 and 142 or 143, Courses 141 and 202 or 204, or Courses 202 and 204 may be taken.

141R. PRINCIPLES OF BIOLOGY. A one-semester course considering the historic fundamental principles of biology in the light of more recent developments. This course is required as the first in a sequence of three courses, 141, 142, 143, for all biology majors and minors. Other majors and minors, see paragraph above. Three lectures and one three-hour laboratory period per week, four credits.

142. ANIMAL BIOLOGY. A one-semester course devoted to the study of those principles of biology best illustrated by animal life. Required of all biology majors and minors. A grade of “B” is required to count toward the major. Elective for others. Prerequisite, Biology 141. Second semester, three lecture and two two-hour laboratory periods per week, four credits.

143. PLANT BIOLOGY. A one-semester course devoted to the study of those principles of biology best illustrated by plant life. Required of all biology majors and minors. A grade of “B” is required to count toward the major. Elective for others. Prerequisite, Biology 141. Second semester, three lecture and two two-hour laboratory periods per week, four credits.

202. NATURE STUDY. An extensive study of the local fauna, and to some extent the local flora, including the identification, collection, and preservation of materials. Prerequisite, Biology 142 or 143, or permission of the
instructor. Second semester, two lecture and two two-hour laboratory periods a week, four credits.

204R. HUMAN PHYSIOLOGY. A study of the structure and functions of the human body. Three lectures and one two-hour laboratory period a week, four credits.

221, 222. MINNESOTA FLORA. A study of native and cultivated plants. This course is primarily intended to meet the needs of elementary teachers and does not count toward a major or minor in biology. Lectures, laboratory periods, and field trips. Two credits per semester.

300. COMPARATIVE ANATOMY. An intensive study of the systems of vertebrate types including the dogfish, necturus, and the cat with emphasis on the probable lines of structural development and phylogenetic relationships. Prerequisite, Biology 142. Second semester, two lecture and two two-hour laboratory periods a week, four credits.

301. ECOLOGY. This course is offered only on odd-numbered years.

302. VERTEBRATE EMBRYOLOGY. A descriptive and comparative study of the early developmental stages of vertebrates. Prerequisite, Biology 142. Second semester, two lectures and two two-hour laboratory periods a week, four credits.

303. GENETICS AND EUGENICS. A study of the laws and principles of inheritance relating to animals, plants, and man with consideration of those principles applicable to the betterment of the human race. Prerequisite, Biology 142 or 143. First semester, three lecture hours a week, three credits.

304. GENERAL BACTERIOLOGY. A course for the student desiring a basic knowledge of bacteriology and training in the fundamentals of bacteriological laboratory techniques. Prerequisite, Biology 142 or 143 and Chemistry 102, or consent of the instructor. Second semester, two lecture and two two-hour laboratory periods a week, four credits.

305. VERTEBRATE HISTOLOGY. A study of the microscopic structure of the cells, tissues, and organs of the mammalian body. Prerequisite, Biology 142. First semester, two lecture and two two-hour laboratory periods a week, four credits.

306. HEMATOLOGY. A study of the morphology of human blood cells in all stages of their development. Prerequisite, Biology 305. One lecture and one two-hour laboratory period, two credits.

307. IMMUNOLOGY. A study of the basic principles of immunology and their application. Prerequisite, Biology 304. First semester, two lecture and two two-hour laboratory periods a week, four credits.

311. PARASITOLOGY. A study of animal parasites including their morphology, life history and their relation to the causation and transmission of disease. Prerequisite, Biology 142. First semester, two lecture and two two-hour laboratory periods a week, four credits.

321-322. PLANT TAXONOMY. A one-year study of the principles of plant classification and identification with emphasis on local flora. Prerequisite,
Biology 143. Two two-hour laboratory or field sessions a week, two credits per semester.

409, 410. INDIVIDUAL COURSE AND SEMINAR. Special staff offerings in biology for seniors and second semester juniors taking a major or minor in biology. Two credits are required of majors in the department. Either semester, or one year, one to four credits.

GENERAL PRE-MEDICAL SCIENCE MAJOR

This is a functional inter-departmental major and minor for the student planning to meet the graduation requirements for the bachelor's degree and, at the same time, to satisfy the admission requirements of the professional school he expects to enter.


MEDICAL TECHNOLOGY

The following courses are required of all students registering as candidates for this profession. The course may be taken under Plan 1 or Plan 2; Plan 1 is the preferable program academically and is that recommended by the department.

Under plan 1 (the five-year plan) the student may elect a major in Biology and a minor in Chemistry, or a major in Chemistry and a minor in Biology. All requirements for the Bachelor of Arts degree must be met, as well as all science courses listed below under Plan 2. At the end of the fourth year, the Bachelor of Arts degree is awarded. On the completion of the fifth year at The Charles T. Miller Hospital, the Bachelor of Science degree in Medical Technology is awarded.

Under Plan 2 (the four-year plan) the student will spend three years at Macalester College and a fourth year of twelve months at The Charles T. Miller Hospital. The following courses are taken in residence at the College: Biology 141-142, 204 or 300, 304, 305, 306, 307, 311 and 410; Chemistry 101-102, 203, 302, 307-308; English six credits; Mathematics 120 or 122; Physics 109R or 202; Psychology 201; Religion six credits; Social Sciences six credits; Physical Education two credits. Electives, non-science courses, six to eight credits.

Courses 351 through 357 are taken at The Charles T. Miller Hospital under the direction of the Chief Pathologist and Director of Laboratories. They are as follows:

* Physical Chemistry is an admissions requirement at the University of Minnesota Medical School.
<table>
<thead>
<tr>
<th>COURSE NO.</th>
<th>COURSE TITLE</th>
<th>LECTURE HOURS</th>
<th>LABORATORY HOURS</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>351</td>
<td>Clinical Microscopy</td>
<td>7</td>
<td>145</td>
<td>3</td>
</tr>
<tr>
<td>352</td>
<td>Hematology</td>
<td>15</td>
<td>365</td>
<td>6</td>
</tr>
<tr>
<td>353</td>
<td>Bacteriology &amp; Parasitology</td>
<td>14</td>
<td>290</td>
<td>5</td>
</tr>
<tr>
<td>354</td>
<td>Histology &amp; Cytology</td>
<td>7</td>
<td>221</td>
<td>4</td>
</tr>
<tr>
<td>355</td>
<td>Biochemistry</td>
<td>35</td>
<td>459</td>
<td>8</td>
</tr>
<tr>
<td>356</td>
<td>Immunology &amp; Basal Metabolism</td>
<td>6</td>
<td>184</td>
<td>3</td>
</tr>
<tr>
<td>357</td>
<td>Blood Bank</td>
<td>6</td>
<td>146</td>
<td>3</td>
</tr>
</tbody>
</table>

Upon successful completion of this hospital program the student will be graduated with the Bachelor of Science Degree in Medical Technology, by Macalester College.

**NURSING PROGRAM**

*(See pages 35 and 114)*

The following list of courses is suggested for students who would be transferring to a School of Nursing for the Bachelor of Science degree in Nursing. It would be varied somewhat to meet the entrance requirements of the nursing school of your choice.

**FRESHMAN YEAR**

*First Semester*  
<table>
<thead>
<tr>
<th>Course</th>
<th>Cr. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 141</td>
<td>4</td>
</tr>
<tr>
<td>English 103</td>
<td>3</td>
</tr>
<tr>
<td>Sociology 231</td>
<td>3</td>
</tr>
<tr>
<td>Religion</td>
<td>2</td>
</tr>
<tr>
<td>Personal Hygiene</td>
<td>1</td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education</td>
<td>½</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>16½</td>
</tr>
</tbody>
</table>

*Second Semester*  
<table>
<thead>
<tr>
<th>Course</th>
<th>Cr. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 142</td>
<td>4</td>
</tr>
<tr>
<td>English 104</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 201</td>
<td>3</td>
</tr>
<tr>
<td>History 102 or 104</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education</td>
<td>½</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>16½</td>
</tr>
</tbody>
</table>

**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>Cr. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 101</td>
<td>4</td>
</tr>
<tr>
<td>Sociology 232</td>
<td>3</td>
</tr>
<tr>
<td>Religion or Applied Speech</td>
<td>2</td>
</tr>
<tr>
<td>Psychology 305</td>
<td>3</td>
</tr>
<tr>
<td>Electives (First Aid)</td>
<td>2</td>
</tr>
<tr>
<td>Physical Education</td>
<td>½</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>16½</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Cr. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 102</td>
<td>4</td>
</tr>
<tr>
<td>Pol. Sci. or Econ.</td>
<td>3</td>
</tr>
<tr>
<td>Religion or Applied Speech</td>
<td>2</td>
</tr>
<tr>
<td>Psychology 306 or Literature</td>
<td>3</td>
</tr>
<tr>
<td>Biology 143</td>
<td>4</td>
</tr>
<tr>
<td>Physical Education</td>
<td>½</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>16½</td>
</tr>
</tbody>
</table>

Language, mathematics, anthropology, and literature are recommended as elective subjects.
CHEMISTRY

Professors Shiflett, Scott, Stocker, Robins

The courses offered in the Chemistry Department are designed to serve three purposes: (1) to contribute to a better understanding and a keener appreciation of man's environment, (2) to provide instruction in the field of chemistry necessary for the allied professions of engineering, medicine, dentistry, medical technology, and nursing, and (3) to lay the foundation for further study in preparation for professional careers in chemistry either in the academic, research, or industrial fields.

A major in chemistry consists of the basic courses in general, analytical, organic and physical chemistry, i.e., Courses 101-102, 203, 204, 307-308, 331-332 and 403-404. Students successfully completing these courses and two others chosen from Courses 303, 304, 305, 311, 312, 313, 316, 401, 402, and who are recommended by the Department, receive certification by the American Chemical Society's Committee on Professional Training.

A minor in chemistry consists of the basic courses in two of the above, either Courses 101-102, 203 and 204, or Courses 101-102 and 307-308.

Majors in chemistry will usually find it advisable to take a minor in mathematics, physics, biology, or economics, the choice depending on the student's specific professional objective. Mathematics and physics would naturally be chosen by those expecting to specialize in physical chemistry and certain fields of pure research, while biology would be more desirable for physiological, agricultural, or biochemistry.

101-102. GENERAL CHEMISTRY AND QUALITATIVE ANALYSIS. An introduction to the atomic, kinetic, and equilibrium theories as illustrated by the common elements and their compounds. Second semester laboratory is devoted to qualitative analysis. One year, three lectures and three hours laboratory a week, eight credits.

110R. FOUNDATIONS OF CHEMICAL SCIENCE. For non-science majors. Evidence for the atomic theory and the structure of molecules. Three lectures and two hours laboratory a week, four credits.

203, 204. ANALYTICAL CHEMISTRY. Detailed study of equilibrium theory related to the detection of the common ions. The laboratory work for the first semester includes gravimetric, volumetric, and colorimetric analysis; second semester is devoted to instrumental analysis. Prerequisite, Course 102 and one year of college mathematics. Three lectures and six hours laboratory a week for the first semester, two lectures and six hours laboratory a week for the second semester, four credits per semester.

302. PHYSIOLOGICAL CHEMISTRY. The chemical aspects of human physiology. Prerequisite, Course 203 and 307. Second semester, three lectures and two hours laboratory a week, four credits.

303, 304. ADVANCED INORGANIC CHEMISTRY. Structures and reactions of inorganic compounds. Prerequisite, Course 204. Either or both semesters, two lectures, three hours laboratory a week, three credits a semester.
307-308. ORGANIC CHEMISTRY. The compounds of carbon, both aliphatic and aromatic. One year, three lectures and six hours laboratory a week, eight credits.

311. QUALITATIVE ORGANIC ANALYSIS. Identification of representatives of the major homologous series. First semester, one lecture and six hours laboratory a week, three credits.

312. ADVANCED ORGANIC CHEMISTRY. Organic stereochemistry and reaction mechanism. Practice in organic microanalysis. One lecture and six hours laboratory a week, three credits.

313. INSTRUMENTAL ANALYSIS. Theory and practice with modern instruments for qualitative and quantitative analysis. Prerequisite, Course 204. One semester, two lectures, three hours laboratory a week, three credits.

316. RADIOCHEMISTRY. The preparation and properties of radioisotopes and their chemical applications. Prerequisites, Course 204. One semester, two lectures, three hours laboratory a week, three credits.

331-332. PHYSICAL CHEMISTRY. Laws, theories, and generalizations relating physical and chemical properties, and the structure of matter with chemical interaction. Prerequisites, Courses 204 and 308, Physics 202, and Mathematics 221. One year, three lectures and six hours laboratory a week, ten credits.

401, 402. INDEPENDENT STUDY. Laboratory or library research on an original problem with a comprehensive report or thesis. Lectures and conferences on advanced topics related to the problem will be included. Open to seniors, and juniors by permission. One to three credits per semester.

403-404. SEMINAR. Presentation and discussion of special topics and researches from the current chemical literature. Open to seniors and to juniors by permission. One year, one hour a week, two credits.

TEACHERS' COURSE. See Education 460.

ECONOMICS AND BUSINESS ADMINISTRATION

Professors Young, Buckwell, Kangas, Lunde, Upgren and Mr. Wolfe

Major objectives are the development of good citizenship and the preparation of men and women for useful living. Students are prepared for careers in business, teaching, civil service and research.

There is provision for two programs. The one leading to the Bachelor of Science degree in Business Administration permits more concentration in the major field than the A.B. program with an Economics major.

Students who intend to teach business subjects in high school must enroll in the B.S. program with a major in Business Education.
DEPARTMENTAL ACTIVITIES

Bureau of Economic Studies: Studies and research projects are conducted under the direction of Dr. Arthur R. Upgren. Publications of the Bureau are given wide distribution.

Honor Societies: high ranking students are eligible for membership in the Order of Artus (Omicron Delta Gamma), national honor fraternity for Economics and business majors, and Pi Gamma Mu, national social science honor society.

Clubs: all students are eligible for membership in Macalester's collegiate chapter of the U. S. Junior Association of Commerce, a campus service and business Club which bring students into contact with Twin Cities business firms.

Metropolitan Area studies: annual trips are made by classes to the grain exchange, banks, brokerage firms, Federal Reserve Bank, and leading manufacturing plants.

Economics and Business Laboratory: Investment manuals, business services, corporation reports, and over one hundred publications of special interest to majors in this field are housed in a special section in the Reference Room in the College library. The Bureau of Economic Studies is located at 161 Macalester Street.

THE A.B. PROGRAM

A minimum of 24 credits is required but more is strongly recommended. The following core group of courses is required of all majors:

2. Accounting 271.
3. Accounting 272 or Statistics 240.

Minors must complete at least 15 credits and include 231, 232, 377 and either 271 or 240. There is provision for a special minor for a government Secretary Career program.

An Interdepartmental major in Economics and Political Science is also offered. It must include Economics 231, 232, 271 or 240, 377, 386 and 3 additional Economics credits plus 18 credits in Political Science. The approval of both departments is required.

THE B.S. BUSINESS ADMINISTRATION

The degree of Bachelor of Science in Business Administration is conferred on the student who completes a prescribed program in the college which includes a minimum of 45 credits in the major field. Women graduates are eligible for membership in the American Association of University Women.
General College Requirements

The general courses in the college which are required under this program are as follows:

1. Communications 8-9 credits
   - English 103-104, Freshman English 6 credits
   - Applied Speech 185 2 credits
   or Speech Fundamentals 199 3 credits
   Or demonstration of special ability by examination by the Speech Department.
   (Business Reports and Correspondence, Sec. St. 202 is recommended.)

2. Man in Relation to the Social World 12 credits
   Four semesters of introductory courses in at least three different departments (Economics, History, Political Science and Sociology). Psychology is an additional requirement (see below). Geography is a recommended elective.

3. Man in Relation to the Physical and Quantitative World 17 credits
   a. Required academic laboratory courses in science 8 credits
   b. Nine additional credits are required from the following:
      Accounting; Statistics; Mathematics of Investments; or College Algebra
      (majors in Business education, 6 credits) 9 credits

4. The Humanities 17-25 credits
   a. 17 credits are required from the following:
      1. Ethics, Logic, or Philosophy 3; 2. Literature 6;
      3. Religion 8; (of which 6 must be from group A).
   No additional credits are required providing the student presents two units in a foreign language from high school. Otherwise the student will take one of the following:
      1. 6 additional credits in English literature; or in foreign literature in translation; or
      2. One year of any foreign language in college.

5. Man in Relation to His Mental and Physical Well-being 6 credits
   1. General Psychology 201 3 credits
   2. Physical Education, Activity courses 2 credits
   3. Personal Hygiene 151 1 credit

6. A minor subject meeting the requirements specified by the department of the minor.

Departmental Requirements

Forty-five credits are required for the degree. They are to be distributed as follows:

1. Analytical tools and background materials of management 18 credits
   1. Principles of Economics 231, 232 6 credits
   2. Accounting 271, 272 6 credits
   3. Statistics 240 3 credits
   4. Business Law 250 3 credits
II. Introduction to major management areas ........................................... 9 credits
1. Monetary and Banking Policies 377 .............................................. 3 credits
2. A minimum of two courses from the following: .......................... 6 credits
   1. Financial Management of Business Enterprise, 375
   2. Economics of Marketing, 367
   3. Labor Economics 339 or Management 382.

III. Broadening and Synthesis Area ................................................. 7-9 credits
1. Economic Theory and Policy 386 .............................................. 3 credits
2. Two from the following ......................................................... 4-6 credits
   1. International Economics 356 4. Economic Analysis 389 or
   2. Government and Business 39 Business Conditions 390
   3. Public Finance 341

IV. Areas of Specialization
Any course which the department offers may be chosen as an elective
for a minimum of forty-five credits but a student is required to
select the number of courses indicated from one of the areas listed below.

A. Economics (3 courses) D. Management (4 courses)
   2. Analysis and Communications 389 2. General Business Conditions
   3. Business and Government 399 3. Personal Psychology,
   4. Public Finance 341 4. Large Scale Organizations,
   5. International Economics 356 Soc. 326

B. Market Management E. Administrative Control
   (3 courses) (Statistics 240 and 4 courses)
   1. Economics of Marketing 36 1. Intermediate Accounting
   2. Distribution Problems 368 303

C. Financial Management
   (3 courses) 3. Tax Accounting 301
   1. Monetary and Banking 4. Cost Accounting 305
   Policies 377 5. Auditing 305
   2. Financial Management 375 F. Business Education
   3. Economics of Investment 374 Secondary school teaching
   major. See EDUCATION
   374 for requirement.

V. Additional electives in Economics and Business Administration to make
a minimum of 45 credits. The maximum number of credits permitted in
courses offered by this department is 50. A number of courses offered
in other departments are recommended but do not count toward the
minor or major requirements. Not more than six credits of D grade
may be counted toward the minimum of 45.

Students who are preparing to teach and therefore take a major in
Business Education for the B.S. degree are not required to take (1)
Statistics, Economics 240 or (2) more than one course in the group
III area in addition to Economic Theory and Policy, 386.
231R. PRINCIPLES OF ECONOMICS I. A macro-economic approach to problems of production, economic growth, stability and economic welfare. Three credits. Majors and minors will take Economics 232 immediately after 231.

232. PRINCIPLES OF ECONOMICS II. Micro-economics; economics of the firm; selected economic problems, alternative economic systems. Prerequisite, Course 231. Three credits.

240R. ECONOMIC STATISTICS. Gathering of group data, graphic presentation; frequency distributions; averages; dispersion; correlation; trend analysis; index numbers. Three credits.

250R. BUSINESS LAW. Contracts; agency; negotiable instruments; property; credit transactions; business organizations; mortgages; wills. Three credits.

271, 272. PRINCIPLES OF ACCOUNTING. Theory and practice of accounting for proprietorships, partnerships and corporations; preparation, analysis and interpretation of statements. Three credits each semester.

301. INCOME TAX ACCOUNTING. Study of current regulations for preparing and filing federal and state tax returns. Prerequisite, Course 271 or its equivalent. Two credits.

303. INTERMEDIATE ACCOUNTING. Prerequisite, Course 272. Three credits.

304. ADVANCED ACCOUNTING. Specialized accounting problems i.e., branch accounting, partnerships, consolidated statements. Prerequisite, Course 303 or consent of instructor. Three credits.

305. COST ACCOUNTING. Job order and process cost systems; budgets; cost analysis. Prerequisite, Course 272 or its equivalent. Two credits.

306. AUDITING. Two credits, alternates with Course 305.

339. LABOR ECONOMICS. Trade unionism; collective bargaining; labor legislation. Prerequisite, Course 231. Three credits.

341. PUBLIC FINANCE. Government revenues and expenditures; debt management; fiscal policy. Prerequisite, Course 232. Two credits.

356. INTERNATIONAL ECONOMICS. World economy; commercial policy; economic agencies; aid and investment abroad. Prerequisite, Course 231. Three credits.

367. ECONOMICS OF MARKETING. Institutions, practices and policies; role of the consumer. Prerequisite, Course 231. Three credits.

368. DISTRIBUTION PROBLEMS AND RESEARCH. Operational policies and problems at the retail level; research; management development. Prerequisite, Courses 231 and 367. Two credits.

369. MANAGERIAL MARKETING. Producer distribution; market research; product and pricing decisions; case method used. Prerequisite 367. Two credits.

374. ECONOMICS OF INVESTMENTS. Securities market structure;
operation; trends; industry appraisal; stock and bond analysis; portfolio management. Prerequisite 231. Two credits.

375. FINANCIAL MANAGEMENT OF BUSINESS ENTERPRISE. The corporation; stocks, bonds; intermediate and short term financing; cash flow; expansion; regulations. Prerequisite 231. Three credits.

377. MONETARY AND BANKING POLICIES. Commercial and central banking; operation; institutions; problems; monetary policies. Prerequisite, 231. Three credits.

382. MANAGEMENT PRINCIPLES. Basic principles and practices of management and administration with emphasis on the human aspects. Prerequisite 339. Three credits.

386. ECONOMIC THEORY AND POLICY. Survey of economic thought; intermediate theory and its use in policy determination; comparative systems. Open to majors with senior standing. Three credits.

387. MANAGERIAL ECONOMICS. Open to majors with senior standing. Three credits.

389. ECONOMIC ANALYSIS AND BUSINESS COMMUNICATION. Solutions to economic problems are sought through economic analysis; oral and written reports; communication tools emphasized. Prerequisite, senior standing or consent of instructor. Three credits.

390. GENERAL BUSINESS CONDITIONS. Business and economic environment; nature of change; analysis of methods used to predict change. Laboratory and case work. Open to majors with junior or senior standing. Two credits.

405, 406. INDIVIDUAL COURSE. Opportunity is afforded superior students with adequate background to carry on further study in fields of special interest. Readings, conferences, reports. Prerequisite, senior standing and consent of instructor. One to three credits a semester.

COURSES IN OTHER DEPARTMENTS

Courses offered in other departments which may be of special interest include:

Geography 280, ECONOMIC GEOGRAPHY.
Journalism 301, PRINCIPLES AND PROBLEMS OF ADVERTISING.
Journalism 302, ADVERTISING PRACTICE.
Political Science 399, GOVERNMENT AND BUSINESS.
Psychology 322, PERSONNEL PSYCHOLOGY.
Sociology 326, LARGE SCALE ORGANIZATIONS.
Political Science 308, PUBLIC ADMINISTRATION.
Secretarial Studies 202, BUSINESS COMMUNICATIONS.
Secretarial Studies 301, OFFICE MACHINES.
Secretarial Studies 303, OFFICE MANAGEMENT.
Education 481, BUSINESS EDUCATION METHODS.

See the Secretarial Studies Department for Secretarial Career courses.
EDUCATION

Professors Holtz, Curtis, Dierenfield, Walling, Williams, Johansen; and instructors of Special Methods courses.

Macalester College offers students the following opportunities in Education: (1) A student may obtain a minor in Education applicable to the requirement for graduation; (2) at the elementary level, certification may be acquired which permits a student to teach in the elementary grades and in kindergarten; (3) at the secondary level, certification may be acquired which prepares a student to teach English, foreign languages, history and social sciences, mathematics, sciences, speech, music, art, commercial subjects, and physical education; and (4) a fifth year of training is offered which leads to the degree of Master in Education.

These programs are accredited by the State of Minnesota, the North Central Association of Colleges and Secondary Schools, and the National Council for Accreditation of Teacher Education.

Minor in Education

A minor in Education consists of a minimum of 16 hours in courses listed, beginning with Education 300 and following the prerequisites as required for each course. Education 430, Philosophy of Education, is required of all students working towards this minor. Education 314, Audio-Visual Methods, will be counted in special instances upon approval of the Chairman of the Department of Education. Education 411, Directed Student Teaching, does not count toward a minor in Education.

Certification for Elementary School Teaching

All students who plan to major in Elementary Education will be required to file an application with the Coordinator of the Elementary Education Program. Acceptance in the program will be based upon (1) scholarship, students applying to major in Elementary Education are expected to achieve and maintain an overall grade average of 1.25 on all courses attempted; (2) recommendations from people who know the candidate well and can judge his fitness and his attitude toward academic work; (3) health and physical fitness adequate to meet the requirements of the profession (in cases about which the committee has reservations the candidate will be required to take a physical examination by the Macalester Health Department); (4) command of English, both oral and written; (5) possession of traits of character and personality expected of a teacher.

Certification for Secondary School Teaching

All candidates for secondary school certification will be required to file an application with the chairman of the Secondary Teacher Selection Committee. Each individual will be reviewed by the entire committee, and acceptance into the secondary program will be based on (1) scholarship, (2) recommendations from the major department, (3) health and physical conditions adequate to the needs of the profession, (4) command of English, both written and oral, and
(5) possession of traits of character and personality expected in a teacher. A student must have an over-all honor point average of 1.5 and an average of 1.6 in the major field before his application will be considered by the committee.

**Minnesota Certification**

(1) In Minnesota, the minimum requirements for a certificate to teach in the secondary schools are the completion of a major in an academic or a special subject or field which is commonly taught in high school and a total of 18 semester hours in professional Education with at least one course in each of the following areas: (1) Orientation to teaching, (2) human growth and development, (3) materials and methods of instruction, and (4) laboratory experience—directed student teaching.

These state requirements will be satisfied by taking Macalester courses in Education as follows: 300, 301, 411, and a Special Methods course. It is recommended that this Special Methods course be taken in the major field. The additional credits to make 18 hours of certification in Minnesota may be taken from any of the electives such as Education 303, 307, 308, 430, etc.

In Minnesota, the candidate must have at least a minor concentration (15 semester hours) in the subject or field to be taught. Present trends indicate an increase in academic concentration, and it is recommended that the student attain a college major in the field in which he expects to teach.

Residence requirement at Macalester for certificate endorsement is thirty semester hours credit, nine of which must be in Education.

(2) The minimum requirement for a certificate to teach in the elementary schools is 30 semester hours in Education. For Macalester's requirements, see the Elementary Education Program beginning on page 90.

To meet the residence requirement at Macalester, students in Elementary Education must earn 15 credits in Education at Macalester.

**Certification in General**

Requirements in both professional education and in subject matter fields in various states are given in a manual to be found in the Education offices.

A teacher's certificate is not granted automatically upon completion of requirements for it. Application for a certificate must be made by the individual directly to the state department of education of the state in which certification is desired, using application blanks secured from the state concerned. The Teacher Placement Office at Macalester has a supply of these blanks for Minnesota. It is illegal to teach in the public schools of any state without a certificate granted by that state.

**Condensed Program for Certification**

The "condensed" program is designed for individuals who already hold bachelor's degrees from accredited colleges and who wish to prepare for teaching on the secondary level. For the condensed program on the elementary level, see page 90, Program 3 (C).

For graduates of Macalester College, this means taking 18 hours of Education as noted above. Students who are graduates of other colleges are required
to earn an academic or teaching major to be built upon a minor or core of courses already earned, plus the required 18 hours of Education for certification. Additional courses designed to broaden the background may be required, depending upon the Registrar's evaluation of credits from other institutions. At least two semesters and one summer session of full-time work are needed to complete this condensed program.

Persons interested in this program should consult with Dr. Arnold Holtz, Chairman of the Education Department, and with Mrs. Dorothy Grimmell, Registrar. Application for admittance must be made one month in advance of the opening day of the session.

**Academic Majors**

Students should consult with major departments as to the requirements for major preparation in the field of their teaching choice. It is strongly advised that candidates also consult with the Teacher Placement Office so that they become familiar with the combinations of majors and minors that are in demand in the public schools and the combinations that usually are taken together.

**Majors in General Science**

Most students who are preparing to teach science in secondary schools should major in general science. If this is not done, care should be exercised to secure somewhat comparable breadth of training in several science fields.

By proper election of courses a science minor may be made a part of the general science major. If this is done, at least 36 of the 42 credits in the major-minor combination must carry a grade of C or better, otherwise 24 credits must be of C grade or above.

The requirements for the general science major are as follows:

- **Prerequisite**, eight credits in Mathematics.
- 1. Physics, Chemistry, Biology and Geology ..............................................24 credits
   (8 credits in introductory year courses in at least two of the above and at least 4 credits in introductory one semester courses in each of the two others)
- 2. Additional, in one of the above sciences ..............................................6 or 8 credits
- 3. Additional, twelve credits in Science and Mathematics, excluding the science covered by item two above. This may include not to exceed 4 credits in mathematics ..............................................12 credits

**TOTAL** ..............................................42 credits

(At least 9 credits of the above total must be courses numbered 300 or over)

Students electing this major should take the foundation courses in mathematics and science before their junior year so that they may have ample opportunity during their junior and senior years to secure the required number of upper class credits.

**Major in Business Education**

The major in Business Education provides the training necessary for the Minnesota High School Standard Special Commercial Certificate. Training in
COURSES OF STUDY

all three major technical-business subjects—shorthand, typing and bookkeeping—is required. A maximum of six credits with grade lower than C may be counted toward the major.

The following courses are required:

- Principles of Economics 231-232
- Principles of Accounting 271-272
- Economics of Marketing 367
- Monetary and Banking Policies 377
- Labor Economics 339
- Business Law 250
- Typewriting 115
- Shorthand 211-212
- Shorthand 311-312
- Office Machines 301
- Office Management 303
- Secretarial Procedure 302

Other requirements for the degree of Bachelor of Science in Business Administration must also be met.

M.Ed. Program

R. E. Dierenfield, Director

This program is administered by a faculty committee representing all the major divisions of the college.

Macalester students may apply as early as the middle of their senior year for admission to this program. Graduates of Macalester or other accredited colleges may also apply.

In case the candidates have completed requirements for a Minnesota teaching certificate they may complete work for the degree of Master in Education within one academic year by taking at least 31 semester hours of course work under conditions prescribed. In case they have not taken all courses in education or have not completed all academic subject matter requirements for certification, an additional semester or more may be required. If the committee desires, it may require additional hours of training in fields where the candidate appears to be deficient.

In general, candidates are accepted if they have a grade point average of 1.6 (based on A as 3) in their undergraduate work, with a 2.0 average in the last two years of college work, and if they have the qualities deemed to be requisite for successful teaching. In the consideration of candidates with successful teaching experience, acceptance may in part be based on the teaching record.

Ten to 13 semester hours in Education beyond basic certification requirements and 18 to 21 semester hours of academic work related to the fields of the student's teaching responsibilities will constitute the normal requirement for college graduates. Each student accepted into the program will be assigned a faculty committee of three persons who will oversee and guide him in all his course work and through his research paper.

No mark less than B will be accepted toward the M.Ed. requirements. A research paper of substantial nature must be written, usually in an academic area. A comprehensive examination, which is a combination of written and oral testing, will be required of all students near the end of their program.

A brochure describing the program in detail with the recommended courses in particular areas is available. Requests for the bulletin, for further informa-
tion, and for application blanks should be addressed to the Director of the Fifth Year Program. See page 89 for courses for fifth year students.

Secondary Education Program Courses

Psychology 201 is a prerequisite of all courses in Education in the B.A. program except 303. No regular student should enroll for more than two courses in Education during one semester.

300R. HUMAN GROWTH AND DEVELOPMENT. The nature of the young child and of its physical, psychological, and social growth and development through life. Factors conditioning growth. The nature and extent of individual differences. The nature of various types of learning and the effects of motivation and other psychological factors affecting pupil behavior and performance. Personality adjustment and guidance. Either semester, three hours a week, three credits.

301R. PRINCIPLES OF EDUCATION. An evaluation of such practices as homogeneous grouping, field trips, audio-visual aids, and other types of class procedures. Assignments, recitation, lesson plans, sources of materials, guidance, evaluation and marking. Prerequisite, Course 300R. Either semester, three hours a week, three credits.

303R. HISTORY OF EDUCATION. A detailed history of the European background of American education and the development of educational institutions and the problems associated with them in America. Consideration will be given to the educational ideas of Plato, Aristotle, St. Thomas Aquinas, Locke, Rousseau, Froebel, Bertrand Russell, Whitehead, Freud, etc. The technical problems of elementary, secondary, and higher education will receive attention in connection with the "history of ideas." Prerequisite, fifty-four credits. Either semester, three hours a week, three credits.

307. EDUCATIONAL TESTS AND MEASUREMENTS. The construction and use of teacher-made objective tests. The selection and use of standardized tests as measures of achievement, aptitude, and learning difficulty. Training in elementary statistical computations and in interpretation of statistical data. Prerequisite, Course 300 and fifty-four credits. First semester, three hours a week, three credits.

308. ORGANIZATION AND ADMINISTRATION OF GUIDANCE. Educational and vocational guidance procedures in the secondary school. Individual inventories, records, tests, counseling, occupational information, sources of materials, follow-up studies, and evaluation. The training of teachers for assuming counseling and guidance responsibilities and for organizing guidance programs. Prerequisite, Course 300 and fifty-four credits. Course 307 and Psychology 324 are recommended. Second semester, three hours a week, three credits.

309. THE JUNIOR HIGH SCHOOL.

314. AUDIO-VISUAL METHODS. A survey of audio-visual tools and materials and emphasis on their utilization and psychological application. Students who desire this course to be counted in the 18 hours for certification
must have the approval of the Chairman of the Department of Education. **Prerequisite, Education 301. Three hours per week, two credits.**

315. **PRODUCTION OF AUDIO-VISUAL MATERIALS.** Production of materials for the improvement of instruction and the advancement of learning by use of these materials. **Prerequisite, Education 314, consent of instructor. Two hours per week, two credits.**

402. **SEMINAR ON PROBLEMS IN EDUCATION.** Readings on methods of research and a canvass of typical research reports. Each student selects a problem, studies it critically, finally formulating a written report. **Open to approved seniors. One or two credits.**

403. **GENERAL SCHOOL ADMINISTRATION.** The administration of school systems, including problems of school districts, school officials, the internal organization and administration of schools, school revenues and expenditures, building, transportation, auxiliary agencies, etc. **Prerequisite, Education 301 and permission of instructor. Offered alternate years, three hours a week, three credits.**

410. **SECONDARY SCHOOL CURRICULUM.** The high school curriculum in reference to forces and trends in society calling for curriculum changes. An attempt will be made to differentiate between the several "curriculum theories." The present trend of the curriculum and its critics since "Sputnik" will be evaluated. **Prerequisite, Education 301. Second semester, three hours a week, three credits.**

411R. **DIRECTED STUDENT TEACHING.** Teaching in the Twin Cities and other selected schools under the supervision of critic teachers and under the general supervision of the Department of Education. Individual conferences. Required of all who expect to teach in high school. **Prerequisite, Course 301R and two credits in Special Methods. Either semester, five or six credits.**

430R. **PHILOSOPHY OF EDUCATION.** An analysis of the basic philosophical positions such as idealism, realism, Thomism, experimentalism, existentialism, etc., with particular implications for education. This involves study and discussion of the nature of human nature, epistemology, values and education, the nature of society, and educational aims. An attempt is made to bridge the gap between these philosophical problems and the areas of curriculum and instruction. Required of all Education minors. **Prerequisite, Education 301. Either semester, three hours a week, three credits.**

**Special Courses in Materials and Methods**

For all courses in special methods, prerequisite is senior classification, prerequisite or corequisite Course 301, approval upon registration of both instructor and Department of Education.

449. **MATERIALS AND METHODS IN ART.** Curriculum materials appropriate for both elementary and secondary grades. Methods of teaching in the above grades. Organization and supervision of an art program. **Prerequisite, a minor in Art. First semester, three hours a week, three credits.**
451. SPEECH. Projects in collateral reading, evaluation of speech texts, compilation of course material for speech activities, planning of courses for speech activities, visits to speech classes and visits to plays, readings, debates, contests in various secondary schools throughout the state. Prerequisite, major or minor in Speech. First semester, two hours a week, two credits.

453. MATERIALS AND METHODS IN ENGLISH. Aims and methods of planning and presenting the work of the English class in the secondary school. Emphasis on conducting meaningful experiences in reading, literature, listening and writing. Prerequisite, a minor in English. Second semester, three credits.

454. MODERN FOREIGN LANGUAGES. Analysis of recent syllabi, particularly those prescribed for Minnesota high schools. Review of text books, observation and lesson planning. Prerequisite or collateral requirements, French 303-304 or German 401 or Spanish 315 and 316. Second semester, three hours a week, three credits. Offered alternate years.

458. LATIN. Consideration of the problems pertaining to the teaching of high school Latin. Prerequisite, Latin 202. Second semester, two hours a week, two credits.

459. MATHEMATICS. A survey of objectives, methods of teaching and measurement of results in teaching secondary mathematics. There will be opportunities for classroom demonstrations and criticism of various techniques. Prerequisite, minor in mathematics. Three hours a week, three credits. Alternate years.

460. NATURAL SCIENCE. A survey of the objectives, content, methods of teaching and of measuring results in the science courses offered in high school. A study of committee and survey reports, state syllabi, texts and workbooks. Prerequisite, a major or a minor in a laboratory science. Second semester, three hours a week, three credits.

462. SOCIAL STUDIES. Lesson planning based on recent courses of study, reports of observation, criticism and discussion; introduction to current professional literature. The best preparation for this course includes the completion of the following: Economics 231-232; Geography 101, 335; History 101-102, 203, 204; Political Science 231-232; Sociology 231R, 232R. Prerequisite, fifteen credits in history and twelve credits selected from at least three of the four departments: economics, geography, political science and sociology. Second semester, three hours a week, three credits.

463. MATERIALS AND METHODS FOR INTEGRATED COURSES. The nature and theory of the integrated course. The selection and development of materials, especially resource units. Adapting and modifying teaching methods to individual differences and the requirements of the integrated course, and the use of group techniques. It is recommended that those taking this course have a major in either social studies or English and a minor in the other. Second semester, two hours a week, two credits.

469. METHODS AND MATERIALS OF TEACHING PHYSICAL EDUCATION. Techniques and procedures in teaching skills in a well-
rounded physical education program. Acquaints students with all types of materials. One semester, three hours a week, three credits.

471-472. ELEMENTARY SCHOOL MUSIC MATERIALS AND METHODS. Approved methods of achieving musical objectives at the elementary level. Survey of and practice with a variety of materials. Problems of music supervision. Prerequisite or corequisite, Education 301R. One year, two hours a week, four credits.

473-474. HIGH SCHOOL MUSIC MATERIAL AND METHODS (CHORAL). Survey of choral ensemble materials, methods of voice production, techniques for teaching group singing, and music appreciation. Prerequisite or corequisite, Education 301R. One year, two hours a week, four credits.

475-476-477-478. HIGH SCHOOL MUSIC MATERIALS AND METHODS (INSTRUMENTAL). Basic principles of playing the strings, woodwinds, brasses, and percussion. Survey of materials for instrumental groups at high school level. Corequisite, music major. Four semesters, one hour a week, four credits.

481. BUSINESS EDUCATION (METHODS AND MATERIALS). Provides instruction in the special methods and techniques in the teaching of high school typewriting, shorthand, office practice, bookkeeping, and general business. First semester, three hours a week, three credits.

Courses for Fifth Year Students
Elementary and Secondary
(Usually offered in Summer Session)

502. ADVANCED SEMINAR IN RESEARCH AND METHODOLOGY. Readings, discussion, lectures, and practical work in research methods, bibliography, and paper writing will be offered. Staff members from selected departments will act as resource persons. In consultation with an instructor from his major area, the student will do the preliminary outline and bibliography for his M.Ed. research paper. In addition to this outline, abstracts of historical, descriptive, and experimental research from current literature will be critically evaluated by members of the class. Required of and to be taken only by students in the Fifth Year Program. Also offered in day school. Two or three credits.

504. ORGANIZATION AND ADMINISTRATION OF SECONDARY EDUCATION. The legal basis of secondary schools, their forms of organization for administrative, instructional and extra-curricular purposes, the design and care of school plants, the guidance program, school revenues and expenditures, the health program, transportation, noon lunches and other similar problems. Open to students with a baccalaureate degree and to students accepted in the Macalester Fifth Year Program. Three credits.

Science Education 505. GREAT CONCEPTS IN SCIENCE. A course planned for science teachers and presented on an individual basis. Independent reading, combined with oral and written reports on materials pertinent to the teaching of science, forms the basis of the course. Required of all science
teachers in the Fifth Year Program. Prerequisite, an undergraduate major in general science, mathematics, or any one of the sciences; Education 502 or corequisite. Three credits.

506. THEORY AND PRACTICE OF SUPERVISION. Theories and purposes of modern supervision in the school. Special emphasis on a variety of methods and on in-service training of teachers. Some attention paid to methods of curriculum revision as related to the entire school. Open to students with a baccalaureate degree and to students accepted in the Macalester Fifth Year Program. Three credits.

510. ELEMENTARY SCHOOL CURRICULUM.

511. RECENT RESEARCH IN CHILD GROWTH AND DEVELOPMENT.

514R. FIFTH YEAR INTERNSHIP. A nine-week period of general observation and participation in varied activities in the junior or senior high schools. Students will spend the full half day in the school and take an active part in the life of the school community. One hour conference weekly required. Required of all M.Ed. candidates who have not had successful teaching experience. Either semester, hours arranged, four credits.

520. ADVANCED PSYCHOLOGY OF LEARNING. Recent literature on learning including such topics as theories as to the nature of learning, types of learning and conditions under which each may be best accomplished, learning as affected by age, motivation, intelligence, experiential background, physical and emotional condition and mindset, theories concerning transfer of learning and experimental data on the amount and kind of transfer. Open to students with a baccalaureate degree and to students accepted in the Macalester Fifth Year Program. Two or three credits.

530. PHILOSOPHY OF EDUCATION. Refer to description listed under Education 430. Additional readings and a substantial paper will be required. Open to students with a baccalaureate degree and to students accepted in the Macalester Fifth Year Program. Two or three credits.

Elementary Education Program
(Miss Wood's School)
Professor E. Louise Curtis, Coordinator

1. Four-Year Program (A) is for those who wish to secure the degree, Bachelor of Science in Elementary Education and to teach in the elementary grades (Grades 1-6). This qualifies for the basic elementary certificate granted in Minnesota. Students in this program must achieve and maintain a 1.25 overall grade average for acceptance in student teaching. A passing grade in a comprehensive examination to be given near the end of the fourth year is required.

2. Four-Year Program (B) is for those who wish to teach in either the kindergarten or the elementary grades. Students in this program will complete the requirements for Program A and will add the course Elementary Education 311, Principles and Practices in Kindergarten Education, to their programs.
A part of the student teaching will be done in the kindergarten. Students entering this program should be able to play the piano and to sing with a good sense of rhythm and pitch.

3. The Condensed Program for College Graduates (C) is a special postgraduate Condensed Professional Program offered to graduates of accredited colleges who wish to secure the degree Bachelor of Science in Elementary Education. Under the guidance of an advisor the student takes a minimum of at least 30 semester credits of professional work in Elementary Education and such additional academic courses as are necessary to prepare him adequately for elementary school teaching. Prospective students must make application to this program no later than August 15 for first semester entrance, December 15 for second semester entrance, and May 1 for Summer Session entrance.

4. The Advanced Program leading to Master in Education Degree (D). This course is open to students who hold undergraduate degrees in Elementary Education. Those interested in this program should see the announcements printed elsewhere in this Catalog under “Fifth Year Program.” For courses for Fifth Year Students see page 89.

Outline of Elementary Education
Programs A, B, and C

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Junior Year

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<td>Education 303 or 430</td>
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<td>Elem. Ed. 304 or 310</td>
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Total 130 Semester Credits

*See catalog below for sequences in Art, Music, or Speech which may, with permission of advisor, be substituted in whole or in part for foreign language.

**It is recommended that selection of science courses be made from the following: Biology 141; Biology 204; Biology 202, Nature Study; Foundation of Physics, 109; Chemistry 110, Foundations of Chemical Science; Geology 112, Geology and Man; Geology 113, Introduction to Ancient Life; Astronomy 103 or 104, Descriptive Astronomy; and Mathematics 116, Foundations of Mathematics.

****Program B. For those planning to teach in the Kindergarten add Elementary Education 311, Theory of the Kindergarten, to the program outlined. Plan to do one semester of directed teaching in the kindergarten.

***Required of all Elementary Education majors.

Alternate for Foreign Language Requirements

I. Alternates for Two Years of Foreign Language

In place of two years of foreign language, students majoring in Elementary Education may substitute twelve credits in one of the following fields; art, music, or speech. These twelve credits must be selected as indicated below.

ART
3 credits Art 152: Art Appreciation Laboratory
3 credits Art 161: Drawing
6 credits from the following courses: Art 162, 309 or 340 or
6 credits from Art 201, 202, 231, 232, 321, 322, 371 or 372

MUSIC
All of Plan 1 or all of Plan 2

Plan 1. Literature Sequence
4 credits Music 123-124: Introduction to Musical Literature and Musical Theory
4 credits Music 203-204: Musical Literature of the Eighteenth and Nineteenth Centuries
4 credits to be elected from the following courses: Music 205 309, or 310

Plan 2. Music Theory Sequence
4 credits Music 123-124: Introduction to Musical Literature and Musical Theory
4 credits Music 221-222: Musical Structure
2 credits Music 223-224: Musical Structure Laboratory
2 credits to be elected from Music 321 or 322

SPEECH
All of Plan 1 or all of Plan 2

Student planning to elect a speech alternate should take Speech 199 to meet the Speech requirement in the Freshman year.

Plan 1. 3 credits Speech 200: Fundamentals of Speech
2-4 credits Speech 201-202
5-7 credits to be elected from the following courses: Speech 203, 204, 205, 218, 261, 263, 217
Plan 2. 3 credits Speech 200: Speech Fundamentals
2 credits Speech 205; Fundamentals of Acting
7 credits elected from the following courses: Speech 203–204, 205, 218, 261, 263, 217

II. Alternates for One Year of Foreign Language
Students majoring in Elementary Education may take the first year of foreign language and then substitute for the second year of the language six credits in one of the following fields: art, music or speech. These six credits must be selected as indicated below.

ART
3 credits Art 152: Art Appreciation Laboratory
3 credits from Art 161, 162, 201, 202, 231, 232

MUSIC
2 credits Music 124: Introduction to Musical Theory
4 credits Music 203-204: Musical Literature of the Eighteenth and Nineteenth Centuries

SPEECH
3 credits Speech 200: Speech Fundamentals
3 credits to be chosen from among the following Speech courses: 203-204, 261, 263, 217 and 218 or 4 credits from 201 and 202.

Academic Concentrations
In place of academic minors students majoring in Elementary Education are required to present two minor concentrations and one major concentration in academic areas. The student may choose either English or Social Science as a major concentration. These concentrations are outlined as follows:

Science: A minor concentration of 12 credits outlined above in the required sequence of courses.

English: A minor concentration consists of 12 credits including Freshman English, Children's Literature and one course in English Literature. The students choosing a major concentration in English earn 6 additional credits in English making a total of 18 credits.

Social Science: A minor concentration consists of 12 credits including History 104, Geography 231, Sociology 231, and Political Science 231, or Economics 231. Students choosing a major concentration in Social Science earn 6 additional credits in social sciences. With the consent of his advisor, these may be distributed among the areas of social science as the student wishes.

Elementary Education Program Courses
Prerequisites: Elementary Education 202, Childhood Education and Observation, is the first professional course in Elementary Education. Prerequisites for this course are classification as a sophomore in good standing, Sociology 231 and Psychology 201. Elementary Education 202 is the prerequisite for all other courses in Elementary Education. Any exceptions are noted below.

202. CHILDHOOD EDUCATION AND OBSERVATION. The organization of the modern elementary school. One half day a week preferably Tuesday morning must be kept open for observation. Either semester, three credits.

300. HUMAN GROWTH AND DEVELOPMENT (See Secondary Education)

303. HISTORY OF EDUCATION (See Secondary Education)

304. MATERIALS AND METHODS FOR TEACHING HEALTH AND SCIENCE. Organization of materials and learning experiences in the fields of health and science for the elementary school. Either semester, three credits.

305. MATERIALS AND METHODS FOR TEACHING READING AND THE LANGUAGE ARTS. Organization of materials and learning experiences for teaching reading and the other language arts. Either semester, three credits.

306. MATERIALS AND METHODS FOR TEACHING THE SOCIAL STUDIES. Organization of learning experiences for developing an understanding of basic concepts of the social studies. Either semester, three credits.

310. MATERIALS AND METHODS FOR TEACHING ARITHMETIC. Organization of teaching materials and learning experiences for developing basic concepts in elementary arithmetic. Either semester, three credits.

311. PRINCIPLES AND PRACTICES IN KINDERGARTEN EDUCATION. Organization of the kindergarten curriculum and selection of instructional materials. Required of students desiring endorsement for kindergarten teaching on the state certificate in Elementary Education. First semester, two credits.

316. TESTS AND MEASUREMENTS IN THE ELEMENTARY SCHOOL. The use and interpretation of psychological tests in guiding a child's growth and development. Corequisite, Elementary Education 415 or 416. Either semester, two credits.

321. MATERIALS AND METHODS OF TEACHING FRENCH IN THE ELEMENTARY SCHOOL. The place of a foreign language in the curriculum of the elementary school and organization of learning experiences with and emphasis on the aural/oral approach. Prerequisite, French 202 or the consent of the instructor. First semester, one credit.

323. MATERIALS AND METHODS OF TEACHING FOREIGN LANGUAGE IN THE ELEMENTARY SCHOOL. Usually offered in the Summer Session.

371. MATERIALS AND METHODS IN ELEMENTARY SCHOOL MUSIC. Selection of materials and organization of learning experiences in music in the elementary school. Either semester, two credits.

411. DIRECTED TEACHING IN THE JUNIOR HIGH SCHOOL. Required of students desiring an endorsement to teach in the junior high
COURSES OF STUDY

school on the Elementary Teaching Certificate. (See Secondary Education 411.)

413K. DIRECTED TEACHING IN THE KINDERGARTEN. Student teaching in the kindergarten, required of students desiring the kindergarten endorsement on the Elementary Teaching Certificate. Taken in place of either Elementary Education 415 or 416. Laboratory fee $22.50. Prerequisites, Elementary Education 305 and English 249. Either semester, five credits.

415-416. DIRECTED TEACHING IN THE ELEMENTARY GRADES. Student teaching under supervision in grades 1-6. Laboratory fee $22.50 per semester. Prerequisites, Elementary Education 305 and English 249. Five credits per semester.

425-426. SEMINAR IN DIRECTED TEACHING. Study of problems arising from the directed teaching experience and further orientation to teaching as a profession. Two credits per semester.

Courses For Fifth Year Students
See page 89

ENGLISH

PROFESSORS LIVINGSTON, WARD, BLAKELY, PATNODE, MEISTER, KANE, MR. HUELSTER, MR. NELSON, AND MR. ARMSTRONG.

Courses lead to a major or minor under these conditions: A major in English consists of at least 30 credits in courses numbered above 200, of which 21 credits must be in courses numbered 353 or above. Course 271, 272 is strongly recommended for majors. Seniors shall also pass a comprehensive examination in two parts: the Graduate Record Examination in literature, and the final examination in Course 401.

A minor in English consists of at least 15 credits in courses numbered 200 or above, of which 6 may be in Humanities.

A teaching minor in English consists of at least 15 credits in courses numbered 200 or above, of which 3 may be in Humanities.

Course 402 is required of both majors and minors preparing for secondary education; Course 311 is strongly recommended.

The courses that follow are offered under these conditions: The prerequisite for courses numbered above 260 is sophomore classification or instructor's permission. The prerequisite for courses numbered above 353 is junior classification and six credits in literature or Humanities, except by instructor's permission. All courses are offered for three credits a semester, except Course 403.

103-104. FRESHMAN ENGLISH. First semester: A study of exposition: reading and analysis of models, plus writing. Second semester: Reading and analysis of various literary types, plus writing of critical and imaginative papers.

201. IMAGINATIVE WRITING. Analysis and writing of short fiction.
202. EXPOSITORY WRITING. Analysis and writing of various prose types, excluding fiction.

251R. INTRODUCTION TO LITERATURE. Reading and instruction essential to an understanding of literature.

261R. MODERN NOVEL. Selected British and American novels mainly of the twentieth century.

262. MODERN DRAMA. Beginning with Ibsen and Shaw.

267. MODERN POETRY. Selected British and American poets since Hopkins.

271, 272. SURVEY OF ENGLISH LITERATURE. Major figures from Chaucer through Eliot. The first semester ends with Boswell and Johnson.

301, 302. ADVANCED IMAGINATIVE WRITING. Conference basis; with instructor's permission.

311. MODERN LITERATURE. The selection, reading, and criticism of works of fiction and non-fiction, mainly modern, of interest and value to high school students. Recommended for, and limited to, those planning to teach English.

351-352. GENERAL HUMANITIES. Masterpieces of world literature, with some attention to art and music. Not for majors except by departmental permission.

353, 354. LITERATURE IN THE UNITED STATES. From colonial times to the present. The second semester begins with Whitman.

362. LITERARY CRITICISM. Major texts from Plato to the present.

375, 376. READINGS IN THE BIBLE. A literary study of the King James Version. First semester, the Old Testament; second semester, the New Testament.

385. MEDIEVAL AND RENAISSANCE MASTERPIECES. From Beowulf through The Faerie Queene, excluding Chaucer.

387. CHAUCER. The Canterbury Tales and Troilus and Creseyde. Individual study of the minor poems.

388. SHAKESPEARE. Twenty plays and the Sonnets.

391. THE SEVENTEENTH CENTURY. Poetry and prose to 1660.

392. MILTON. Major and minor poems and selected prose.

393, 394. THE RESTORATION AND THE EIGHTEENTH CENTURY. Poetry and prose from Dryden to Blake. The first semester ends with Pope.

395, 396. THE NINETEENTH CENTURY. Poetry and prose from Wordsworth to Arnold. The first semester ends with Keats.

397, 398. HISTORY OF THE NOVEL. Development from Defoe to Hardy. The first semester ends with Scott.

399. HISTORY OF THE DRAMA. Development of the English drama from the Middle Ages to the nineteenth century, excluding Shakespeare.
401. SEMINAR IN LITERARY HISTORY. Studies to round out the field of the major. The final examination in this course is part of the senior comprehensive. Required of all English majors. *First semester of the senior year.*


403. INDIVIDUAL READING. Open to seniors who are candidates for departmental honors, fifth-year students preparing a paper; and to others by departmental permission. *One, two, or three credits.*

504S. SEMINAR IN UNITED STATES LITERATURE. An intensive study of selected major American writers, together with the important critical literature pertaining to them. *Open only to fifth-year students or to those with a bachelor's degree.*

505S. SEMINAR IN ENGLISH LITERATURE. An intensive study of selected major British writers, together with the important critical literature pertaining to them. *Open only to fifth-year students or to those with a bachelor's degree.*

**FRENCH**

**Professors Sundheim, Blegen, Peters**

There are three major objectives of the French Department: (1) Progressive development of the ability to pronounce correctly, to understand, and to use the language orally; the ability to read books, newspapers, and magazines within the scope of the student’s interests and intellectual powers; (2) Development of an interest in the history, the institutions and the ideals of France. (3) For advanced students, a survey knowledge and a critical evaluation of the leading writers and main currents of French literature.

A major in French consists of a minimum of 24 credits in courses numbered 200 or above and must include Course 301 (Survey of French Literature up to 1700) and six additional credits in other literature courses, 303-304 (Conversation), 333 (Composition) and 355 (Introduction to French Civilization).

A minor in French consists of a minimum of 15 credits in courses numbered 200 or above.

Course 101-102 (Elementary French) is not counted toward a major or a minor. French 206 (Scientific French) does not count toward a major, and counts toward a minor only for students whose major is in one of the natural sciences.

See Humanities Program for world literature in translation.

In all Elementary, Intermediate, and Conversation courses extensive use will be made of the Foreign Language Laboratory.

101-102. ELEMENTARY FRENCH. An introduction to spoken French and elementary French reading. *One year, five hours a week, eight credits.*
201-202. INTERMEDIATE FRENCH. Review of grammar essentials, oral work, and the reading of modern French texts. Prerequisite, Course 102 or two years of high school French. One year, three hours a week, six credits.

206. SCIENTIFIC FRENCH. A reading course for science students, elective as a substitute for Course 202. Second semester, three hours a week, three credits.

301. SURVEY OF FRENCH LITERATURE UP TO 1700. Major emphasis will be placed on the classical drama of Corneille, Racine and Moliere. First semester, three hours a week, three credits.

302. SURVEY OF EIGHTEENTH CENTURY LITERATURE. The works of Montesquieu, Voltaire, Rousseau and the Encyclopedists. Second semester, three hours a week, three credits.

303-304. CONVERSATION. Intensive drill in comprehension, pronunciation and conversational practice, use of records and tapes. One year, two hours a week, four credits.

311. NINETEENTH CENTURY LITERATURE: ROMANTICISM. The origin and development of Romanticism with emphasis on the works of Lamartine, Hugo, Vigny and Musset. First semester, three hours a week, three credits.

312. NINETEENTH CENTURY LITERATURE: REALISM AND NATURALISM. Representative works of the leading writers in drama, novel and poetry. Second semester, three hours a week, three credits.

315. FRENCH POETRY.

316. THE MODERN NOVEL.

322. NINETEENTH CENTURY DRAMA. Extensive reading of plays representative of French dramatic currents since 1830 with detailed analysis in class of typical examples of Romantic, Realistic and Naturalistic drama. Second semester, three hours a week, three credits.

333. COMPOSITION. A review of the essentials of French grammar, followed by composition based on modern French texts. First semester, three hours a week, three credits.

341. THE CONTEMPORARY NOVEL. Representative works of important twentieth century writers such as Proust, Gide, Duhamel, Mauriac, Malraux and Sartre. First semester, three hours a week, three credits.

355. INTRODUCTION TO FRENCH CIVILIZATION. A lecture and reading course on the geography, history, institutions, and most important social, economic, and political problems of modern France. To be given in French. Prerequisite, Course 202 or four years of high school French. First semester, three hours a week, three credits.

401R. SENIOR STUDIES. Advanced students may undertake individual or group projects in areas of special interest. Hours and credits to be arranged.

TEACHERS' COURSE. See Education 454.
GEOGRAPHY

Professor Johnson; Mr. Groenhoff

Regional and systematic geography courses complement social and natural sciences and enter into teacher training courses of study. An understanding of the world distribution of geographic phenomena and human activities is necessary in various professions. The ability to use intelligently geographic tools, particularly maps, is essential for good citizenship and in many professions, notably in teaching.

A minor in geography consists of at least 15 credits and must include 231R. All 200-numbered courses are open to freshmen and have no prerequisites.

231R. HUMAN GEOGRAPHY. Introductory; basic principles, concepts, tools and distribution patterns of man on earth. Both semesters, three hours, three credits.

241. ELEMENTARY EXERCISES IN GEOGRAPHIC AIDS. Practical work with maps, interpretation, procurement and usage of maps. First semester, two hours, one credit.

244. EURASIA.

246. LATIN AMERICA. Regional geography of South and Central America. (To alternate with 244.) Second semester, three hours a week, three credits.

254. See German 253.

280. ECONOMIC GEOGRAPHY. Agricultural and industrial resources, trade patterns, industrial location and world transportation. Second semester, three hours, three credits.

300. CONSERVATION FIELD COURSE. History of resource exploitation, technical conservation measures, legal problems. Open to seniors and lower classmen who had Geography 231. Two-hour evening sessions once a week in April and one two-day field trip in May. Second semester, one credit.

302. INTRODUCTION TO GEOGRAPHY OF NORTH AMERICA. A regional course in which the major physical, mineral, agricultural, and manufacturing regions of the United States and Canada are discussed. Prerequisite: six credits in Geography. First semester, three hours, three credits.

333. POLITICAL GEOGRAPHY.

335. HISTORICAL GEOGRAPHY OF NORTH AMERICA. Geographic beliefs, history of cultural landscape, settlements and routes with emphasis on Middle West. Field trips to ghost towns, Minnesota River landing places, suburbia developments and archives. Prerequisite 24 credits or consent of instructor. First semester, three hours a week, three credits.

341. AFRICA.
GEOLOGY

PROFESSORS GLOCK, SMILEY AND SCHULTZ; MR. BAYER
SHARLENE AGERTER, RESEARCH ASSOCIATE IN TREE-RING RESEARCH
LABORATORY; BENJAMIN DRAKE, GRADUATE ASSISTANT

A geology major requires the following courses: 101-102; 201, 204; 301, 302; 309; 310, 405-406 and at least eight credits in other geology courses. Additional requirements, for those who intend to seek employment in geology or who intend to pursue graduate study, are a reading knowledge of either German, French, or Russian, and Mathematics 121-122 or its equivalent. Biology 141 and 142 or 143, Chemistry 101-102, and Physics 201-202, must be taken because they are fundamental to the science of geology, except that those students intending to concentrate in Physical Geology need not take biology. For the geologist, English composition and public speaking are invaluable.

Senior research and thesis are required of majors in geology.
A minor in geology requires eight credits in courses numbered 200 and above.
Majors in geology commonly take a minor in either botany, chemistry, mathematics, physics, or zoology.
Field trips are an integral part of all courses in geology.

COOPERATIVE PROGRAM BETWEEN MACALESTER COLLEGE
AND THE MUSEUM OF NORTHERN ARIZONA

The Northern Arizona Society of Science and Art, Inc., which operates the Museum of Northern Arizona and the Research Center, and Macalester College have agreed that the facilities of the Research Center and the Museum of Northern Arizona provide unusually fine training and research facilities in the fields of Biology, Geology, Anthropology, and Art.

Field work and independent research for a limited number of Macalester students can be undertaken at the Museum's Research Center with the approval of the Department concerned and the Director of the Museum.

The Museum offers summer research assistantships in Biology, Geology, Art and Anthropology, for which qualified students at Macalester may apply, subject to prior approval by the Department chairman, the Director of the Museum and the Dean of the College.

101-102. GENERAL GEOLOGY. The first semester, Physical Geology, is a study of the processes that have been and are at work on the land surfaces, and the results achieved by those processes through time. The second semester, Historical Geology, is a study of the history of the North American continent, in particular, and of the life it has supported. One year, three lectures and one two-hour laboratory period a week, eight credits. Local field trips both semesters; all-day field trip to Taylors Falls in May. This course counts four credits toward a major or a minor if the student's grade is B or better.

112R. GEOLOGY IN RELATION TO MAN. A survey and cultural course in geology. Either semester, three lectures and one two-hour laboratory
period a week, three or four credits. (Extra work will be required of those who have had Course 101-102.) Local field trips; all-day field trip to Taylors Falls.

113R. INTRODUCTION TO ANCIENT LIFE. A survey of past life as interpreted from fossils. Evolutionary trends in ancient groups, and historical development of modern life forms. Either semester, three lectures and one two-hour laboratory period per week, four credits. Local field trips; all-day field trip to Taylors Falls.

201. MINERALOGY. A systematic study of the crystallographic, physical, and chemical properties of the common and economically useful minerals. Prerequisite, Course 101 and Chemistry 102. First semester, three lectures and one laboratory period a week, three credits.

204. STRUCTURAL GEOLOGY. A study of the original features of igneous, sedimentary, and metamorphic rocks, and the secondary structures induced by earth stresses. Special emphasis is placed upon sedimentation and dependent structures. Prerequisite, Course 101. Second semester, three hours a week, three credits.

301. GEOMORPHOLOGY. An inquiry into physiographic processes and landforms, and discussion of current problems. Prerequisite, Course 101. First semester, three lectures and laboratory a week, three or four credits.

302. ADVANCED HISTORICAL GEOLOGY. A study of the geologic history of North America. Particular attention to some of the larger problems. Prerequisite, Course 102 and for geology majors, 204. Second semester, three lectures and laboratory a week, three or four credits.

309. INVERTEBRATE PALEONTOLOGY.

310. FIELD COURSE. A three-day trip to the Devils Lake, Baraboo, and the Dells region of Wisconsin where the stratigraphy, structure, geologic history, and physiography are studied. Prerequisite, Course 101-102 or an equivalent interest in geology and consent of the department. One credit upon completion of the trip and a satisfactory written report.

311R. RESEARCH METHODS. The discipline of original investigation and its application to individual problems. Prerequisite, fifteen hours of science and consent of the department. First semester, two or four credits. May be continued the second semester under Course 401 if the problem chosen merits such extension.

401. INDIVIDUAL COURSE; SENIOR RESEARCH AND THESIS. Independent study in geology or in Tree-Ring Analysis, open to seniors and by permission. Prerequisite, Geology 311 and consent of department. Two to four credits a semester.

404. REGIONAL GEOLOGY OF THE UNITED STATES.

405-406. SEMINAR. Practice in the oral presentation of scientific papers based on current literature. Open to seniors or by permission. One year, one hour a week, two credits.
ASTRONOMY

103, 104. DESCRIPTIVE ASTRONOMY. A non-mathematical survey of the known universe; first semester, our solar system and second semester our galaxy and other stellar systems. Either semester, three lectures and one evening laboratory in the Wilkie Observatory a week, four credits each semester.

GERMAN

Professors Albinson, Westermeier; Mrs. Wood and Mrs. Tschesche

The purpose of the major sequence is to equip the student with language skills necessary to the study of German literature and culture and to prepare him to teach the language or to continue the study of the literature in graduate school. The major sequence consists of 24 credits in courses above 102 and in which the student has obtained a grade of C or higher. Required courses are 201-202, 301-302, 303, 304. Education 454 is required of those preparing to teach German. Courses 101-102 do not count toward a major or minor.

The purposes of the minor sequence are to equip students with sufficient language skills to aid in the study of the literature in graduate school. The minor sequence consists of a minimum of 15 credits in courses above 102 and in which the student has attained a grade of C or higher. Courses 302 and 303 or 304 are required. In all Elementary, Intermediate and Conversation courses extensive use will be made of Foreign Language Laboratory.

101-102. BASIC GERMAN. Intended for beginning students in German or for students with insufficient knowledge for advanced courses. One year, five hours a week, eight credits.

201-202. INTERMEDIATE GERMAN. Selected reading in modern German texts. Students with two years of high school German may be admitted. Prerequisite, Course 102. One year, three hours a week, six credits.

206. SCIENTIFIC GERMAN. Reading material from the various sciences forms the basis for a study of vocabulary and translation technique. Prerequisite, Course 102 or by examination. Second semester, three hours a week, six credits.

301-302. HISTORY OF GERMAN LITERATURE.

303, 304. BASIC COMPOSITION AND CONVERSATION. Prerequisite, Course 202 or 206. Either or both semesters, three to four hours a week, six to eight credits.

307-308. GERMAN LITERATURE IN MUSIC. Study of 18th century lyric poetry plus general literary background of German art, song and opera. Prerequisite, 202 and 206 or consent of instructor. One year, three hours a week, six credits.

313, 314. THE CLASSICS, I, GOETHE. Selections from his works including Faust Pt. I. First semester, three hours a week, three credits. Prerequisite, 202 or 260.
314. THE CLASSICS, II, SCHILLER. Selections from his works. Prerequisite, 201 or 206. Second semester, three hours a week, three credits.

321. THE GERMAN SHORT STORY SINCE 1800 (NOVELLE).
322. THE GERMAN NOVEL (ROMAN) SINCE 1800.
323, 324. GERMAN DRAMA.

401R. SPECIAL STUDIES FOR SENIORS. Reading and discussion of such German texts as relate to the student’s major field of interests. Topics to be studied would cover, among others: history, philosophy, psychology, religion, sociology. Either semester. Hours and credits to be arranged.

TEACHER’S COURSE. See Education 454.
See Humanities Program for world literature in translation.

GREEK
Professor Palmer

Objective: Progress in the knowledge and understanding of the Greek language, literature, and culture, especially in their relation to our own language and literature.

A major in Greek requires twenty-four credits, a minor fifteen credits. Course 101-102 is not counted toward a major or minor. Courses 201, 202, 203, and 204 are counted as 300 courses for third year students of the language.

Suggested courses: History 301 and Philosophy 231 are strongly recommended.

See Humanities Program for world literature in translation.

101-102. GRAMMAR. A study of the elements of the language. Drill in form, vocabulary, syntax and composition. Readings from Xenophon’s Anabasis. One year, five hours a week, eight credits.

201. HERODOTUS.
202. ILIAD, READINGS IN GREEK.
203. PLATO. Apology, Crito and part of Phaedo.
204. NEW TESTAMENT. Second semester, three hours a week, three credits.

301. GREEK ORATORY.
304. GREEK TRAGEDY.

306R. SELECTED READINGS. Reading of material related to the student’s major interest. Prerequisite, six credits above Course 101-102. Either semester, three hours a week, three credits.

401R. ADVANCED READING. Individual course. Prerequisite, at least nine credits above 101-102. Either semester, two to four credits.
**HISTORY**

Professors Armajani, Dupre, Sayegh, Solberg, Spangler.

A major in History consists of twenty-six credit hours including courses 101-102 and 203-204, and four semester courses numbered 300 or above, including 403, selected with the approval of the department. Desirable minor fields are economics, geography and political science.

A minor consists of fifteen credit hours and must include courses 101-102 and 203-204, and one semester course numbered 300 or above.

The attention of advanced students is called to the Area Studies Program.

All courses carry three credits excepting 401, 402 and 403. Prerequisites for courses numbered 300 and above are 54 credits and course 101-102, for courses in European or Asian history, and 203-204 for courses in American History, or consent of the instructor.

101-102. RISE OF MODERN CIVILIZATION. Ancient, medieval and modern civilization. Intended for under-classmen. When taken by juniors or seniors half credit is allowed. **One year, three hours a week, six credits.**

102R. RISE OF MODERN CIVILIZATION. Covers the period 1650 to the present. **Either semester, three hours a week, three credits.**

104R. RISE OF MODERN AMERICA. A survey course in United States history designed only for Elementary Education majors. **No prerequisite. Either semester, three hours a week, three credits.**

203-204. THE UNITED STATES FROM COLONIAL TIMES TO THE PRESENT. A social, economic, political and cultural survey of American History. Sophomore standing normally required. **One year, three hours a week, six credits.**

301. ANCIENT HISTORY: THE ANCIENT NEAR EAST AND GREECE.

302. ANCIENT HISTORY: ROME.

304. FRENCH REVOLUTION AND NAPOLEONIC ERA.

306. HISTORY OF MODERN RUSSIA.

308. GERMANY SINCE 1871. The five Germanies from 1871 to the present. **First semester, three hours a week, three credits.**

309. EUROPE AND THE WORLD FROM 1914 TO THE PRESENT. Traces the nature and causes of the two wars and problems of maintaining peace. **Second semester, three hours a week, three credits.**

312. RECENT AMERICAN HISTORY.

313. AMERICAN FRONTIER. The influence of the frontier upon American history and culture. **Prerequisite, 203-204, or equivalent. Second semester, three hours a week, three credits.**

314. AMERICAN DIPLOMATIC HISTORY. The foreign relations of the United States. **Three hours a week, three credits.**

317. LATIN AMERICAN HISTORY.
317. HISTORY OF THE RENAISSANCE AND REFORMATION. Consideration of the cultural, political and economic ramifications of the movements and their contributions to civilization. *Second semester, three hours a week, three credits.*

318. HISTORY OF ENGLAND.

321. HISTORY OF THE FAR EAST. The cultural background of the peoples of China and Japan and their reactions to western civilization. *Second semester, three hours a week, three credits.*

323. HISTORY OF CANADA AND CANADIAN-AMERICAN RELATIONS.

328. HISTORY OF THE MIDDLE EAST. A discussion of the Middle East with emphasis on the modern period. *Second semester, three hours a week, three credits.*

329-330. AMERICAN THOUGHT AND CIVILIZATION. The interplay of political, religious, social, economic and scientific thought and institutions in the United States from the beginning to the present.

401, 402. INDIVIDUAL COURSE. *Hours and credits to be arranged.*

403. SEMINAR. *Required of majors in the first semester of the senior year, two credits.*

503. READINGS IN HISTORY. Designed for those in the Fifth Year Program. *Hours to be arranged. Three credits.*

### JOURNALISM

**Professor Burg and Mr. MacGregor**

The objectives of the department are: (1) to provide an intelligent comprehension of the role of news media as social institutions, (2) to build a certain professional competence in the basic essentials of journalism and (3) to develop good citizens.

A major consists of 24 credits. These courses are required and are included in the total of 24 credits: Courses 203-204, 207, 307-308, 323, and 331.

A minor consists of 15 credits. These courses are required and are included in the total of 15 credits: Courses 203-204, 323, 331. A minimum of six credits in journalism courses numbered 300 is required.

Journalism majors will take a 24-credit supporting minor in any one of these divisions: languages and literature, the social sciences, the natural sciences, philosophy and religion, or the fine arts.

201. INTRODUCTION TO JOURNALISM. Character, objectives and general organization of the newspaper, general magazine and specialized press; aims and ethics of journalism. *First semester, three hours a week, three credits.*

203-204. NEWSPAPER REPORTING. Fundamentals of news gathering and news writing; journalism ethics. Extensive practice in writing news stories. *One year, three hours a week, six credits.*
207. HISTORY OF JOURNALISM. A study of the development of the newspaper in the United States, with its English origins, including biographical studies of outstanding personalities, a consideration of American journalism in its various periods and conditions, and the aims (and ethics) of journalism. Second semester, three hours a week, three credits.

301. PRINCIPLES AND PROBLEMS OF ADVERTISING. Organization of the advertising industry; media; methods of determining advertising effectiveness; retail advertising; economic and social aspects of advertising. First semester, two hours a week, two credits.

302. ADVERTISING PRACTICE. Principles and techniques of copywriting; preparation of layouts; copy and readership tests; planning and preparation of campaigns; legal restrictions. Second semester, two hours a week, two credits.

307-308. NEWS EDITING. Newspaper copyreading methods, news display, headline writing, newspaper makeup. Instruction and practice in evaluation of news stories. Types and type sizes. One year, two hours a week, four credits.

313, 314. ADVANCED REPORTING. Deals with the reporting of public affairs, with emphasis on covering the courts. Prerequisite, Course 204. Either or both semesters, three hours a week, three credits a semester.

323. NEWS ANALYSIS. A study of the media through which contemporary events reach the public and of the problems and "barriers" that separate the reader and the writer. First semester, three hours a week, three credits.

331. PUBLIC OPINION. A study of propaganda techniques, particularly as they are employed by political parties and by pressure groups in general. Second semester, three hours a week, three credits.

401R. INDIVIDUAL READING COURSE. Open, with consent of the department, to advanced students majoring in journalism. Either semester, one to three credits.

LATIN
Professor Palmer, Mrs. Jones

Objective: To become as familiar as possible with the Latin language and with the literature and culture of ancient Greece and Rome, especially in their relation to our own language and literature.

Major and minor: A major in Latin requires twenty-four credits in the department including courses 309, 311 and 312. A minor requires fifteen credits. A teaching minor must include course 309. Latin 101-102 does not count toward a major or minor. The following courses are available. 355, Pliny; 356, Tacitus; 357, Catullus; 388, Horace; 401, Individual Course.

Suggested courses: The following courses are strongly recommended: History 301, 302, Philosophy 231, and any courses in the Greek language and litera-
ture. The student should also be acquainted with a modern language and with modern literature. A wide choice of supporting minors is possible.

See Humanities Program for world literature in translation.

101-102. ELEMENTARY LATIN AND CAESAR. A study of Latin grammar with the reading of easy Latin and Caesar. One year, five hours a week, eight credits.

201-202. INTERMEDIATE LATIN. Selections from the orations of Cicero and Vergel’s Aeneid. No credit is given for one semester unless the student offers three years of Latin from preparatory school. Prerequisite, two years of high school Latin or Course 102. One year, three hours a week, six credits.

212. ROMAN PRIVATE LIFE. Life and customs of the ancient Romans. No knowledge of the language is required. Prerequisite, twenty-four credits or permission of instructor. Second semester, two hours a week, two or three credits.

301. LATIN COMEDY.

302. LIVY. Reading of selections with emphasis on the topography and growth in the city of Rome. Prerequisite, four years of high school Latin or Course 202. Second semester, three hours a week, three credits.

303. CICERO READINGS. De Senectute and De Amicitia. Prerequisite as in the above course. First semester, three hours a week, three credits.

309. LATIN COMPOSITION. A review of Latin grammar in connection with prose composition. Prerequisite, Course 202 or equivalent. First semester, two hours a week, two credits.

311-312. A SURVEY OF LATIN LITERATURE.

355, 356. PLINY, TACITUS.

357, 358. CATULLUS, HORACE.

401R. INDIVIDUAL COURSE.

MATHEMATICS

Professors Camp, Braden, Staley; Mrs. Mielke, Mr. Jaeger

All students who register for a freshman course in mathematics are required to take a mathematics pre-test. They will be advised to elect the freshman sequence which is most appropriate to their needs and mathematical background.

A major consists of twenty-eight credits taken in courses listed in Section A and including the sequence of courses 121-122, 221-222; or 131-212, 222. A major may not include more than eight credits in the 100 group and must include nine credits selected from courses 311-312, 321-322 and 302.

A minor consists of at least fifteen credits including the sequence of courses
121-122, 221-222; or the sequence 131-212, 222 and one course from the 300 group.

A student who wishes to prepare for graduate work or research in mathematics should obtain a reading knowledge of French, German, or Russian.

A. Mathematics

111. ALGEBRA. Primarily for students who present only two units of high school mathematics. Equivalent to a thorough course in high school higher algebra. This course may not be counted toward the 12 credit science requirement for the B.A. degree. First semester, four hours a week, four credits.

116. FUNDAMENTAL MATHEMATICS. Designed to give to students in the social sciences, humanities, and the arts some knowledge of the nature, logical structure, and application of mathematics, in addition to some proficiency in the elementary algebraic operations. Topics to be considered will include number systems, mathematical proof, algebra, sets, probability, and statistics. Second semester, four hours a week, four credits.

120. ELEMENTARY ANALYSIS—ABRIDGED COURSE. An integrated course similar to Course 121-122. It serves as a terminal course for those students who do not plan to continue the study of mathematics. Prerequisite, satisfactory score on the Mathematics Pre-Test, or Course 111. Second semester, four hours a week, four credits.

121-122. ELEMENTARY ANALYSIS. An analysis of algebraic, trigonometric, logarithmic, and exponential functions including derivatives and integrals. Also includes determinants, numerical trigonometry, and analytic geometry. Prerequisite, satisfactory score on the Mathematics Pre-Test, or Course 111. One year, four hours a week, eight credits.

131-212. ANALYTIC GEOMETRY AND CALCULUS. An integrated course in analytic geometry and calculus open to freshmen with an exceptionally strong background in mathematics, including a thorough course in trigonometry. Students who complete this course may go directly into Mathematics 222 (second semester calculus) in the first half of their sophomore year, and Mathematics 302 (differential equations) in the second semester of the sophomore year. One year, four hours a week, eight credits.

221-222. CALCULUS. Limits, derivatives, integrals; the process of differentiation and integration of algebraic, trigonometric, exponential, and logarithmic functions; infinite series, solid analytic geometry, partial derivatives, multiple integrals, vectors; applications to geometry and physics. Prerequisite, Course 122. One year, four hours a week, eight credits.

222R. CALCULUS. The second half of Course 221-222 offered primarily for those students who take Course 131-212 in the Freshman year. First semester, four hours a week, four credits.

299, 300. HONORS SEMINAR. Open to students who have done outstanding work in Mathematics 131-212. Intended for sophomores who have done A or B grade work in previous mathematics courses and who have the
ability to do independent reading under the guidance of an instructor. Lectures will be given by the participating students. Two semesters, two hours a week, one credit each semester.

302. DIFFERENTIAL EQUATIONS. A study of the more common types of ordinary differential equations which occur in geometry, mechanics, and physics; special emphasis on equations of first and second order and linear equations with constant coefficients. Prerequisite, Course 222. Second semester, three hours a week, three credits.

308. MODERN GEOMETRY.

309. ENGINEERING STATICS. Composition and resolution of forces, equilibrium of force systems, frictional forces, applications to the statics of rigid bodies. Prerequisite Course 122. First semester, three hours a week, three credits.

311-312. MODERN ALGEBRA.

314. MATHEMATICAL STATISTICS, A mathematical treatment of selected topics from statistics including an introduction to the theory of probability, least squares and correlation analysis, theory of distributions with special emphasis on the binomial, Bernoulli, and the normal distribution, and an introduction to sampling theory and tests of significance. Prerequisite, Course 222. First semester, three hours a week, three credits. Offered 1962-1963 and alternate years.

321-322. ADVANCED CALCULUS. Partial differentiation with applications to the geometry of space; double and triple integrals, line integrals and Green's Theorem, transformation of multiple integrals; introduction to complex numbers and the theory of functions. Prerequisite, Course 222. One year, three hours a week, six credits. Offered 1962-1963 and alternate years.

324. ADVANCED LOGIC. Prerequisite, Philosophy 309 and, if taken for credit in mathematics, at least a minor in mathematics. Second semester, three hours a week, three credits.

401-402. SEMINAR IN HIGHER MATHEMATICS. An opportunity is offered for juniors and seniors who are majoring in mathematics to study in special fields not covered by the courses listed above. Either semester, one credit a semester.

411-412. INDEPENDENT STUDY IN MATHEMATICS. The course will be conducted as a seminar for approximately one semester with the students lecturing. During the second half of the course each student will be assigned a special topic to investigate under the guidance of a supervisor and the results of this investigation must be written up in a paper which is acceptable to the supervisor and to the Mathematics Department. The subject matter will vary from year to year and will usually be in the field of special competency of the supervisor. Open only on the consent of the instructor and limited to students who have at least a B average in 20 or more credits of mathematics courses. One year, three hours a week, six credits.

TEACHER'S COURSE. See Education 459.
B. Pre-engineering Courses

101. ENGINEERING GRAPHICS.

102. ENGINEERING GRAPHICS. Machine elements, dimensioning, assembly drawing. Prerequisite, Mathematics 101. Six hours per week, two credits.

MUSIC

Professors Morton, Betts, Carpenter, Nee, Straka; Mrs. Swain, Mr. Abbott, Mr. Barr, Mrs. Burris, Mr. Davenport, Mr. Ford, Mrs. Gifford, Mr. Hasselmann, Mr. Jackson, Miss Johnson, Mrs. Titus, Mrs. Wentzel, Mrs. Wilson

The major and minor sequences provide or prepare for the training essential to professional activity in various fields of music, and offer technical and associative backgrounds appropriate to the pursuit of music as an avocation or its enjoyment as a cultural resource.

The general requirements for admission to Macalester College must be met by all collegiate students in music. The aptitude of those preparing to major or minor in music will be tested in various ways during the first year. Failure in any of these tests will involve, to the extent of the failure, a probationary status. In such cases work will be taken without credit until the deficiency is made up.

Music majors must have attained sufficient competency as individual performers to justify a 400 course level in their private lessons by the second semester of their senior year. Exceptions may be made for students whose primary interest is in composition and whose creative skill is considered by a faculty committee to be equal to that of the 400 level in Applied Music. In addition, all students majoring in music must attain a certain competency in piano. A faculty committee of the music department will determine whether or not this requirement has been met in individual cases at the end of the sophomore year.

The major sequence consists of 16 credits in Applied Music (8 in Private Lessons and 8 in Ensemble — Choir, Band, Orchestra, or Chamber Ensemble), 12 credits in Basic Musical Literature and History (123, 203-204, 307-308), 8 credits in Basic Musical Theory (124, 221-222, 223-224), and 8 credits selected from the Electives. Majors planning to become teachers in the Secondary schools should elect 321 and 322.

The minor sequence consists of 8 credits in Applied Music (4 in private lessons and 4 in Ensemble — Choir, Band, Orchestra, or Chamber Ensemble), 6 credits in Basic Musical Literature and History (123 and 203-204 or 307-308), and 8 credits in Basic Musical Theory (124, 221-222 and 223-224).

I. Applied Music

100, 200, 300, 400. Private lessons in piano, organ, voice, and the orchestral instruments. Course numbers, indicating the degree of the student's advance-
ment, will be determined by a faculty committee for each individual at the end of each year. Freshmen should register for Music 100. A special fee is charged for these courses — see College Finances section. Individual lessons are one half hour a week, one credit a semester.

100C. CLASS LESSONS IN PIANO. Classes of four students. Not open to students with one or more years of piano study. No more than two credits may be earned in this course. No credit for music majors or minors. One hour a week, one credit.

105-106. THE MACALESTER COLLEGE CHOIR. Performance of at least one major choral work with symphony orchestra and presentation of anthems and other music in the college chapel service. Audition required. Course may be repeated with credit. One year, three hours a week, two credits.

107-108. THE MACALESTER COLLEGE BAND. Audition required. Course may be repeated for credit. One year, three hours a week, two credits.

109-110. THE MACALESTER COLLEGE ORCHESTRA. Audition required. Course may be repeated for credit. One year, three hours a week, two credits.

111, 112. CHAMBER MUSIC ENSEMBLE. Audition required. Course may be repeated for credit. Two hours a week, one credit each semester.

113-114. THE MACALESTER PIPE BAND. Instruction in the pipes and drums. Performances at Macalester and community functions. No credit toward a music major or minor. One year, three hours a week, two credits.

255-256. THE MACALESTER LITTLE CHOIR. A chorus of about 40 singers chosen from the Macalester College Choir. One year, three hours a week, two credits.

II. Basic Musical Literature and History

123. INTRODUCTION TO MUSICAL LITERATURE. First studies of musical literature from various periods. First semester, two hours a week, two credits.

203-204. MUSICAL LITERATURE OF THE EIGHTEENTH AND NINETEENTH CENTURIES. Masterpieces from Bach to Gustav Mahler. Emphasis on backgrounds and social influences as determinants of style. One year, two hours a week, four credits.

251R. APPRECIATION OF MUSIC. Acquaintance with significant repertoire of the composers from 1700 to the present, and development of listening skills. No credit toward a music major or minor. Either semester, two hours a week, two credits.

307-308. HISTORY OF MUSIC. A study of origins and technical developments in musical thought from ancient Greece to the present time. Emphasis on the relation of music to the principal historical and cultural movements. Prerequisite, Music 204. One year, three hours a week, six credits.
III. Basic Musical Theory

124R. INTRODUCTION TO MUSIC THEORY. Rhythms, intervals, meters, scales, common musical terms, and practice in writing. Either semester, two hours a week, two credits.

221-222. MUSIC STRUCTURE. Harmonic analysis of Bach chorales, harmonic and thematic analysis of the classical symphony, free composition. One year, two hours a week, four credits.

223-224. MUSIC STRUCTURE LABORATORY. Sight singing and dictation. Required as laboratory with 221-222. One year, one hour a week, two credits.

IV. Electives

205R. CHURCH MUSIC. History and literature of the music of the Christian Church. Not open to Freshmen. Either semester, two hours a week, two credits.

303-304. MODAL COUNTERPOINT. Practice in writing polyphonic motets in the style of the late Renaissance. Prerequisite, Music 222. One year, two hours a week, four credits.

309. CONTEMPORARY TRENDS. Theory and practice of the twentieth century. Prerequisite, Music 203-204. Alternate semesters each year, two hours a week, two credits.

310. OPERA. A study of selected major works by composers from Mozart to the contemporary scene to include an examination of the music, libretti, and staging. Alternate semesters each year, two hours a week, two credits.

321. CONDUCTING. Practice in the basic patterns. Study of scores from the viewpoint of the conductor. First semester, two hours a week, two credits.

322. ORCHESTRATION AND ARRANGING. A study of the capabilities of orchestral and band instruments. Comparison of instrumental practices of various composers. Second semester, two hours a week, two credits.

401, 402. SEMINAR. Creative, interpretive, and research projects for seniors and graduate students. Prerequisite, permission of the instructor. Either semester, two or three hours a week, two or three credits each semester.

413-414. TONAL COUNTERPOINT. Part writing in the manner of Bach. Inventions and fugal structures. Prerequisite, Music 222. One year, two hours a week, four credits.

453-454. SEMINAR IN COMPOSITION. Prerequisite, Music 222. One year, two to four hours a week, four to eight credits.


V. Related Courses in Literature

See German 307-308.

444R. MUSIC LINGUISTICS SEMINAR. Study of authentic writings on and by musicians, or about music and musicians, in Italian, German, or
COURSES OF STUDY

French. Prerequisite, junior or senior status. Either semester, two hours a week, two credits.

NURSING

Professors Ruether, Ciagne, Miller and English, Psychology and Sociology Staff; Mrs. Bauman, Mrs. Meinecke and Mrs. Wise

The program of nursing offered at Macalester College serves the field of nursing according to the following plans:

PLAN ONE

Three Year Basic Diploma Program

Abbott, Northwestern and St. Barnabas Hospital Schools of Nursing offer a basic three year diploma program in professional nursing. These three schools are associated with Macalester College and conduct a Central Teaching Program. The Joint Advisory Council, composed of representatives of Macalester College and the three schools of nursing, coordinate the program. Each school has received full accreditation from the National League of Nursing. The student becomes a registered nurse after she completes the three year program, and achieves a satisfactory score in the state board examinations.

Direct application is made by the student to one of the schools of nursing. Students must meet the regular academic requirements of the college. Selection is based on factors such as rank in the upper third of their class; at least 17 years of age; successful completion of nursing aptitude tests; good health and personality traits indicative of the ability to make adequate adjustment to the nursing profession.

Students are admitted to and live in the school of nursing of their choice. While the students are primarily under the jurisdiction of the hospital school of nursing, they are expected to conform to the general standards and regulations of the College.

For the cost of this program and other information, the applicants should write or visit the school of nursing of their choice. Scholarships and loans are available through the individual schools for students needing financial aid.

The following courses are taught by the Macalester College faculty to the students of the Central Teaching Program and the Ancker Hospital School of Nursing students.

Biology 115N. ANATOMY AND PHYSIOLOGY. A study of the gross structure and functions of the normal human body. First semester, three hours lecture and three hours laboratory weekly. Four credits.

Chemistry 115N. CHEMISTRY FOR NURSES. A study of General, Inorganic, Organic and Physiological Chemistry. First semester, three hours lecture and three hours laboratory weekly. Four credits.
Biology 117N. MICROBIOLOGY FOR NURSES. Study of micro-organisms, microbial diseases and source and control of infections. Second semester, three hours lecture and two hours laboratory weekly. Four credits.

Chemistry 118N. PHARMACOLOGY FOR NURSES. A study of sources, active principles and specific action of drugs and drug preparations in relation to prevention or treatment of disease. Second semester, two hours weekly. Two credits.

Psychology 201R. GENERAL PSYCHOLOGY. See description in Department of Psychology. Three credits.

Sociology 231R. INTRODUCTORY SOCIOLOGY. See description in Department of Sociology. Three credits.

English 103. FRESHMAN ENGLISH. See description in Department of English. Three credits.

PLAN TWO

Baccalaureate Degree Program

Graduates of the Central Teaching Program who have completed Plan One (as described above) may apply for admission to the program leading to a Bachelor of Science Degree with functional major related to nursing. The students in this program must meet the following requirements of the College for graduation.

A. 126 credits, 32 of which must be from courses numbered 300 or above.

B. 126 honor points.

C. In addition to courses taken previously, the student must take the following courses in general education, or their equivalent:

English 104 ................................................. 3

Social Sciences ............................................. 6

Literature .................................................... 6

Philosophy .................................................. 3

Religion ....................................................... 6

Fine Arts ...................................................... 2

Applied Speech ............................................. 2

Senior Seminar ............................................. 3

The students admitted to this program have earned 23 credits by completing the college courses given in Plan One. The College also gives credit to the Central Teaching Program students for the instruction and laboratory experiences given by the school of nursing. The exact amount of credit is determined
COURSES OF STUDY

by the committee administering the program. It will take the student a minimum of three semesters to earn the additional credits necessary for completion of the graduation requirements.

The functional major related to nursing shall consist of at least 24 credits in courses which may be selected from several departments. These courses are to be chosen subject to the approval of the faculty advisor and the special committee.

**PHILOSOPHY**

Professors H. Thompson, Hill, Mitau, W. Thompson and White

The purpose of philosophy courses is to assist the student in wise interpretation and evaluation of material from all fields of human experience and research, and thus lead to sound judgment and action.

Majors and minors in philosophy are suitable preparation for religious work, law, politics, the arts or college teaching, as well as for intelligent living and wholesome citizenship in general. The particular sequence in each case should be developed in consultation with the department, and adapted to other interests of the student.

A major in philosophy consists of a minimum of 24 credits, including courses 231, 232 and 309.

A minor consists of a minimum of 15 credits, including courses 231, 232, and 309.

Education 530, Philosophy of Education, may be included in a major or minor in philosophy with the consent of the department.

Courses 205, 220, 231, 232, and in some cases 309, are designed to fulfill the general requirement in philosophy. At least one of these is prerequisite to all other courses in the department.

205. ETHICS. The nature of value and duty and the application of these concepts to some current problems. **Prerequisite, twenty-four credits. Three credits.**

220. INTRODUCTION TO PHILOSOPHY. Considers how we can know truth, what is the ultimate nature of things, and what kinds of things are worth having or doing. **Prerequisite, twenty-four credits. Three credits.**

231, 232. HISTORY OF PHILOSOPHY. The great thinkers of the western world, how their ideas developed, and how these ideas bear on current issues. **Prerequisite, twenty-four credits. Three credits.**

309. LOGIC AND SCIENTIFIC METHOD. Principles of correct thinking, their relation to one another and their use in problem solving. **Prerequisite, twenty-four credits. Three credits.**

311, 312. ORIENTAL PHILOSOPHY. Philosophies of India in the first semester, Chinese and Japanese philosophies in the second semester, related to western philosophies. **Three credits each semester.**
324. ADVANCED LOGIC. Foundations and basic procedures and findings of modern symbolic or mathematical logic. Identical with Mathematics 324. Prerequisite, Course 309 and permission. Three credits.

325. PHILOSOPHY OF SCIENCE.

326. PHILOSOPHY OF RELIGION.

329. AMERICAN PHILOSOPHY. From Colonial times to the present. Prerequisite, fifty four credits including 220, 232. Three credits.

331. PHILOSOPHY OF HISTORY. A critical analysis and evaluation of various interpretations of structure and meaning in history. Prerequisite, three credits in philosophy and consent. Two credits.

335. AESTHETICS. A philosophical study of aesthetic experience and aesthetic evaluation. Prerequisite, three credits in philosophy and consent. Three credits.

340. THE PHILOSOPHY OF PLATO. A concentrated study of the Platonic dialogues, relating them to present problems. Three credits.

357. INTRODUCTION TO POLITICAL PHILOSOPHY. Identical with Political Science 357. For philosophy credit, prerequisite, three credits in philosophy. Three credits.

360. CONTEMPORARY PHILOSOPHY. Analysis of present day philosophical movements and leaders. Three credits.

401, 402. SEMINAR. Concentrated study, as elected each year, of some movement, problem or philosopher. Two credits.

403, 404. INDIVIDUAL COURSE. The student selects a topic for intensive study under the guidance of an instructor. Prerequisite, fifty-four credits and the consent of the instructor. One or two credits a semester.

450. FUNDAMENTALS OF THOUGHT AND CONDUCT. A course for seniors, to integrate the experiences and learnings of college into a philosophy of life. Consent of the instructor. Two credits.

**PHYSICAL EDUCATION**

**MEN**

Mr. Lundeen, Director; Olson, McAlister, Bolstorff, Maas

It is the aim of the department, through its physical education courses and athletic program, to provide the student the opportunity to participate in activities which are physically, mentally and socially worthwhile.

Special effort is made to interest all men in athletic competition. Varsity teams compete in baseball, basketball, cross country, football, golf, hockey, swimming, tennis, track and field and wrestling. Regular intramural participation is available in the following sports: basketball, handball, horseshoe, softball, table tennis, tennis, touch football, track and field, and volleyball.
Physical education is required of all students. Students may choose from courses offered with the following restrictions: two activities must be at the 100 level and two activities at the 200 level, and no course may be repeated.

The required costume for most activity classes will be blue shorts, blue T-shirt, and tennis shoes.

151R. PERSONAL HYGIENE. Required of freshmen unless Biology 204 is elected. One semester, one hour a week, one credit.

101. T-FOOTBALL & BASKETBALL. First semester, two hours a week, one-half credit.

102. VOLLEYBALL & SOFTBALL. Second semester, two hours a week, one-half credit.

103. SOCCER & VOLLEYBALL. First semester, two hours a week, one-half credit.

104. BASKETBALL & SOFTBALL. Second semester, two hours a week, one-half credit.

201R. GOLF AND RHYTHMS. Open to men and women. Either semester, two hours a week, one-half credit.

202R. TENNIS AND BADMINTON. Either semester, two hours a week, one-half credit.

203R. HORSESHOE & ARCHERY. Either semester, two hours a week, one-half credit.

205R. ELEMENTARY SWIMMING. A course for non-swimmers. Either semester, two hours a week, one-half credit.

207R. INTERMEDIATE SWIMMING. Instruction in the standard strokes and beginning diving. Either semester, two hours a week, one-half credit.

209. ADVANCED SWIMMING. Instruction in speed and distance swimming, diving, and life saving methods. First semester, two hours a week, one-half credit.

WOMEN

MISS MICHEL, DIRECTOR

An aim of the Women's Physical Education Department is to provide a program which will contribute toward the total development of every girl through motor activities.

Varied activities are offered so that girls may choose and develop skills in one or more activities which are satisfying to them and can be carried on during leisure time in school and in later life.

Physical Education is required of all freshmen and sophomores. Students must provide their own gymnasium costume of white shorts, white shirt, and
tennis shoes. Costumes for swimming and modern dance are provided by the college.

Special effort is made through the Women's Recreational Association to interest girls in recreational activities through the intramural program and the co-educational program.

151R. PERSONAL HYGIENE. Health for Effective Living. Individual health goals interpreted through lecture, discussion and reading of current health problems and events. Required of freshmen unless Biology 204 is elected. One semester, one hour a week, one credit.

201, 202. BEGINNING TENNIS AND BADMINTON. Either semester, two hours a week, one-half credit.

203, 204. TEAM SPORTS. Instruction and participation in field hockey, soccer, basketball, volleyball and softball. Either semester, two hours a week, one-half credit.

205R. ELEMENTARY SWIMMING. For non-swimmers and beginners. Either semester, two hours a week, one-half credit.

207R. INTERMEDIATE SWIMMING. Instruction in the standard strokes and elementary diving. Either semester, two hours a week, one-half credit.

209R. ADVANCED SWIMMING. Instruction in form swimming, speed swimming, and springboard diving. Either semester, two hours a week, one-half credit.

211, 212. GYMNASTICS AND SELF TESTING ACTIVITIES. Includes gymnastics, tumbling, stunts and special emphasis on posture. Either semester, two hours a week, one-half credit.

213R. BEGINNING MODERN DANCE. Fundamental movements and techniques used in the art form of dance. Experiences in creating and in dance composition. Either semester, two hours a week, one-half credit.

215R. INTERMEDIATE MODERN DANCE. Continuation of practice in body control in rhythmic movement and dance composition as in 213. Prerequisite, P.E. 213R or consent of instructor. Either semester, two hours a week, one-half credit.

217-218. PHYSICAL EDUCATION FOR ELEMENTARY GRADES. Practice in group and minor team games, rhythms, stunts, and contests and recreational activities suitable for the various age levels. Principles and practice in group leadership and teaching; principles of program planning; sources of material. One year, two hours a week, one credit. Required of Elementary Education majors.

219, 220. INTERMEDIATE TENNIS AND BADMINTON. Prerequisite, P.E. 201 or the permission of the instructor. Either semester, two hours a week, one-half credit.

221R. ARCHERY AND RHYTHMS, OR ARCHERY AND BOWL-
ING. Open to beginners only. Bowling requires additional fees, including transportation. *Either semester, two hours a week, one-half credit.*

223R. SYNCHRONIZED SWIMMING. Instruction in aquatic stunts and swimming to music. Routines created individually and in groups. *Either semester, two hours a week, one-half credit.*

225R. LIFESAVING. Instruction in lifesaving skills leading to American Red Cross Certification. *Prerequisite, P.E. 209R or consent of instructor. Also open to men. Either semester, two hours a week, one-half credit.*

227R. GOLF AND RHYTHMS OR GOLF AND BOWLING. Open to women beginners only. Golf and bowling require additional fees, including transportation. *Either semester, two hours a week, one-half credit.*

228. WATER SAFETY. Students prepare themselves to become American Red Cross Water Safety Instructors. *Prerequisite, current Red Cross Lifesaving Certificate. Second semester, two hours a week, one-half credit.*

229R. BALLROOM DANCING. Instruction in current ballroom steps, in leading, following, and practice in ballroom dancing; also open to men. *Either semester, two hours a week, one-half credit.*

233R. ADAPTED PHYSICAL EDUCATION. Individually adjusted activities for students who need limited physical activity. Admission to Course will be upon recommendation of college physician or own doctor. *Two hours a week, one-half credit.*

235R. FOLK DANCING AND RHYTHMIC ACTIVITIES. Instruction in folk and square dance. Also open to men. *Either semester, two hours a week, one-half credit.*

237R. DIVING. Instruction in plain and fancy diving; also open to men. *Two hours a week, one-half credit.*

PROFESSIONAL COURSES FOR MEN AND WOMEN

Courses for a Physical Education Major and Minor

The program for the major in physical education meets the general college requirements for a Bachelor of Science degree with a major in physical education and a minor in a field of the student's choice, such as mathematics, science, sociology, etc. In addition, it also meets the state requirements in education, thereby qualifying the graduate to teach in the public schools. Possibilities for positions include the teaching or supervision of physical education, school health education in schools and colleges, camp counseling, and recreational leadership.

28 credits are required for a major in physical education for women. The courses are as follows: 219, 221, 241-242, 253-254, 353-354, 355, 357, 360, 361-362, 364, 450, 452, 454.

28 credits are required for a major in physical education for men. The courses are as follows: 103, 201, 203, 231, 232, 241, 242, 253, 254, 353, 354, 355, 357, 360, 365, 366, 450, 452, 459.
A minor consists of the following courses for men: 253-254, 353-354, 355, 360, 365-366, 452, totalling 17 hours. Women are required to take: 253-254, 353-354, 355, 360, 361-362, 452, 364, totalling 17 hours.

241-242. PHYSICAL EDUCATION FOR ELEMENTARY TEACHERS. Practice in skills for the various age levels. Principles and practice in leadership and teaching; principles of program planning. Additional time is required for observation and supervision. One year, two hours a week, two credits.

231. APPLIED HUMAN ANATOMY. A study of the structure of the human body with emphasis on the skeletal and muscular systems and the articulations. Prerequisite Biology 109, Human Physiology 204. First semester, two hours a week, two credits.

232. KINESIOLOGY. The principles and mechanics of body movement relating to activities, sports, corrective and adaptive programs of physical education. Prerequisite, Course 231. Second semester, two hours a week, two credits.

244R. FIRST AID. Students prepare themselves to pass the Standard or Advanced American Red Cross First Aid Test. One hour a week, one credit. Required for women only.

253-254. GYMNASTICS AND SELF TESTING ACTIVITIES. Participation in tumbling, stunts, apparatus, gymnastics and combat activities. Methods, materials, and teaching. One year, two hours a week, two credits. Open to women.

253-254. GYMNASTICS. Tumbling, stunts, apparatus, gymnastics on standard apparatus, remedial-corrective physical education. Prerequisite 101-102. One year, two hours a week, two credits. Required for men majors and minors only.

353-354. INDIVIDUAL AND DUAL SPORTS. Methods, materials, analysis and teaching individual and dual sports such as tennis, badminton, golf, archery, and bowling. Some square dancing. Prerequisite for women PE. 201 and 231 or permission of the instructor. One year, three hours a week, three credits.

355. SCHOOL HEALTH PROBLEMS. Methods of health instruction. Health needs of the individual and hygiene of the environment. Evaluation of the literature and devices of health instruction. First semester, two hours a week, two credits. Prerequisite 360.

360. HISTORY AND PRINCIPLES OF PHYSICAL EDUCATION. History, basic principles, philosophy, aims and objectives of physical education. Second semester, two hours a week, two credits.

357. PREVENTION AND TREATMENT OF ATHLETIC INJURIES AND FIRST AID TO THE INJURED. Theory and practice in modern methods of First Aid; prevention and treatment of conditions which come legitimately within sphere of non-medical; physio-therapy and massage. One semester, two hours a week, two credits. Required for men only.
361-362. THEORY OF SPORTS. The major team sports for women studied from the theoretical approach; rules, strategy, fundamentals, coaching techniques and officiating. Prerequisite 203-204. One year, two hours a week, four credits. Required only for women.

365-366. THEORY OF SPORTS. Football, basketball, baseball, track and field. Theory and practice in the fundamentals, strategy of the games, study of various defenses and methods of attack; scouting; techniques of coaching. One year, three hours a week, six credits. Required for men only.

364. DANCE IN EDUCATION. Brief history of dance. Methods and materials for a rhythmic program in secondary schools. Observation and practice in teaching of rhythmic skills in folk, modern, square and social dances. Two hours a week, two credits. Required for women only.

450R. RECREATIONAL LEADERSHIP. Principles of leadership and program planning for recreation and camping activities. Study of city, county, state and national organizations. Two hours a week, two credits.

452. ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION. A study of curriculum, facilities, equipment, personnel, financing, athletics, intramural, public relations, records, and other duties and responsibilities, necessary to carry on a program of health, physical education and recreation in the public schools, in an agency, or in a recreational department. Second semester, two hours a week, two credits.

454. THEORY OF SWIMMING AND AQUATICS. Instruction in basic strokes, diving, and synchronized swimming. To register for this course a student must be proficient in swimming. One semester, two hours a week, two credits. Required for women.

459R. OFFICIATING. Study of rules and application of techniques in officiating football, basketball, baseball, track and field, wrestling, swimming and hockey. One hour a week, one credit. Required for men only.

PHYSICS

Professors Hastings and Newcomb

The objectives of the department of Physics are (1) to help its students acquire a deeper and more sympathetic understanding of the physical universe; (2) to foster or create an ambition to enter physical research; (3) to offer adequate preparation for the physical science requirements in the various professions.

For a major in Physics the following courses are required: Physics 201, 202, 301, 302, 321, 352, 354, 411R; Mathematics 121-122, or 131-212, and 221-222; Chemistry 101-102. A thesis is required in connection with course 411R.

For a minor in Physics the following sequence is required: Course 201-202 and, in addition, any two of 301, 302, 321, 352 for a total of 16 credits.

Students majoring in physics should ordinarily minor in mathematics unless a good reason exists for another choice. The following courses satisfy the
minor requirements: Mathematics 121-122, or 131-212 and 221-222. The requirements in physics for general science teaching and for pre-medical and pre-dental courses are fulfilled by course 201-202. Students in the department of Music should register for course 101. Students preparing to enter a college of engineering should register for courses 201-202, 301, 302, 321, 352 and 354.

To help students select the proper course in physics, the department offerings are divided into groups A and B. In general, students wishing to specialize in physics or who are taking a pre-professional requirement in physics should select courses from Group A. Courses in Group B are of general interest and have no prerequisites. They do not count toward a major or minor.

Group A

101. SOUND AND THE PHYSICAL BASIS OF MUSIC. A course planned primarily to meet the requirements of the Department of Music but open to all students as an elective. Experiments and laboratory demonstrations are an important part of the course. First semester, four hours a week, four credits.

201-202. COLLEGE PHYSICS. An introductory course in the field of physics, consisting of lecture demonstrations, discussions, and laboratory practice. Prerequisite, Mathematics 120, 122 or three units of high school mathematics. One year, three lecture and recitation, and two two-hour laboratory periods a week, eight credits.

301. MECHANICS AND THERMODYNAMICS. An introduction to analytical mechanics and classical thermodynamics. Prerequisite, Course 202 and Mathematics 222. First semester, two recitations and two two-hour laboratory periods a week, four credits.

302. ELECTRICITY AND OPTICS. An introduction to such subjects as potential theory, electromagnetism, electromagnetic induction, interferometry, diffraction, and radiation. Prerequisite, Course 202 and Mathematics 222. Second semester, two recitations and two two-hour laboratory periods a week, four credits.

321. RADIO AND ELECTRONICS. A course offered to provide students interested in electronics an opportunity to experiment with fundamental circuits. Prerequisite, Course 202. First semester, two recitations and two two-hour laboratory periods a week, four credits.

352. ATOMIC AND NUCLEAR PHYSICS. A survey of the developments in modern atomic and nuclear physics which have been so important in recent years. Extensive demonstration experiments are a major feature of this course. Prerequisite, Course 202. Second semester, four hours a week, four credits.

354. GREAT EXPERIMENTS IN PHYSICS. A course based on the new and challenging book *Great Experiments in Physics*, by Shamos. Demonstrations and laboratory experiments on selected topics in both classical and modern atomic physics will be presented. Second semester, four hours a week, four credits.
411R. ADVANCED EXPERIMENTAL PHYSICS. In this course seminars on procedures in modern experimental physics are held and the student is required to carry on experimentation in a field of his own choosing, subject to approval by the head of the department. The purpose is to develop an interest in physical research. The course may be repeated with different topics. Prerequisite, Course 301 or 302. Either semester, four hours a week, two credits.

TEACHER’S COURSE. See Education 460.

Group B

109R. FOUNDATIONS OF PHYSICS. A course planned for students who desire a general knowledge of the cultural and practical aspects of physical science. This course should be of interest to non-science majors. Either semester, three lectures and one two-hour laboratory period a week, four credits.

210. METEOROLOGY. A study of the properties of the upper and lower atmosphere with special emphasis on their application to weather and weather forecasting. Second semester, four hours a week, four credits.

POLITICAL SCIENCE

PROFESSORS MITAU, DODGE AND BAIRD

The Department of Political Science aims to provide students with both pre-professional training for government service and a general background of knowledge about government which is a part of the training of every well educated citizen. The courses which follow seek to achieve these objectives and include the following areas of political science: Group A (American government, politics and administration): 231, 232, 308, 342, 347, 399; Group B (International affairs and comparative government): 333, 301, 302, 303, 304, 351, 352; Group C (Political theory): 357, 360.

A major consists of 24 credits including: courses 231 and 232; 347 or 342; and one course each from Groups B and C.

A minor consists of 15 credits, including courses 231 and 232, or 342.

An inter-departmental major is offered in economics and political science. Such a combined major consists of a total of 36 credits in the two departments, at least 18 of which must be in economics and 18 in political science, including the requirements outlined above for a political science minor. Students looking toward a career in government service are urged to take a major in political science or the inter-departmental major outlined above in economics and political science or in international relations.

Today there is a growing need in both government and industry for young men and women with a liberal arts education to fill positions classified as: legal secretary, foreign trade secretary, and secretary in government at home and abroad. For positions such as these, a major in Political Science — International Relations is recommended. A minor should be taken in economics and business administration; for this, see the proposed outline of courses under the
department of Secretarial Studies. The college will undertake to assist in the placement of students in governmental or business offices related to the field of their interest at prevailing salary rates. The Political Science—International Relations major consists of thirty credits including: Political Science 231 and 232, 351 and 352, and 301 or 302 or 306; Economics 231 and 356; History 203 and 204, and 314.

The interdepartmental major in Economics and Political Science must include Economics 231, 232, 271 or 240, 377, 386 and 3 additional Economics credits plus 18 credits in Political Science. The approval of both departments is required.

Unless indicated to the contrary, all courses in the department are three credit courses. Political science 231 and 232 or consent of the instructor are prerequisites for all 300 courses.

231R. INTRODUCTION TO GOVERNMENT. Modern democratic government and politics, what it is and how it works.

232R. PROBLEMS IN AMERICAN GOVERNMENT AND POLITICS. Analysis of American government policies, practices, and conflicts affecting our foreign and domestic affairs.

301, 302. COMPARATIVE GOVERNMENT. First semester, Great Britain, France and Germany; second semester: Soviet Union and its satellites.

303. FAR EASTERN GOVERNMENT AND POLITICS. One semester survey covering Japan, China and India.

304. AFRICAN GOVERNMENTS AND POLITICS. Survey of constitutional, governmental and political developments in the newly independent states of Africa.

308. PUBLIC LAW AND ADMINISTRATION. Administrative policies, operations, and rule making in national and state government.

331. PUBLIC OPINION. See Journalism 331, for course description.

333. POLITICAL GEOGRAPHY. See Geography 333 for course description.

342. STATE GOVERNMENT. Institutions and activities of state and local government with special emphasis on Minnesota.

347. POLITICAL PARTIES AND ELECTION PROBLEMS. Nature of party organization, elections, and interest group politics.

351. INTERNATIONAL POLITICS. Causes of war and conditions of peace in the world's nation state system.

352. INTERNATIONAL ORGANIZATIONS AND LAW. Survey of the United Nations and principles of international law.

357. INTRODUCTION TO POLITICAL PHILOSOPHY. Western political thought from Plato to the present.

360. AMERICAN CONSTITUTIONAL AND POLITICAL THOUGHT. Survey and analysis of leading constitutional decisions and American political ideology.
COURSES OF STUDY

399. GOVERNMENT AND BUSINESS. Cases and policies of federal courts and regulatory agencies affecting the American business community.

451, 452 and 503. SEMINAR IN GOVERNMENT OR INTERNATIONAL RELATIONS. Conferences and reports based on independent work in selected fields of political science or international relations. One to three credits.

491, 492. COMMUNITY AS A LABORATORY. Identical with Economics 491, 492, and Sociology 491, 492. One to three credits.

PSYCHOLOGY

Professors Jenson, Mink, Willerman and Mrs. Paterson

This department seeks to foster a scientific approach to the study of human nature, so that the student may have a more adequate and accurate insight into his own experiences and conduct, as well as a deeper understanding of those about him.

The number of hours required for a major in psychology is 24 semester hours. An excess of 24 hours is allowed only with permission of the department. Students who plan to do graduate work in psychology may elect six hours from departments other than their major(s) and minor(s). In order to apply these courses towards the psychology major, these courses must be approved by the department of psychology.

A major in psychology must include Courses 201R, 308, 310, 326, and 409 or 410. Biology 141, 142 or 204 and Sociology 231 or 233-234 are also required. Biology 303 is recommended.

For a minor, fifteen credits, including course 201R, are required. Course 201R is a prerequisite for all courses in the department except for Course 101R which does not count toward a major or minor.

For those majoring in psychology, the minor should be selected according to the vocational aim of the student. Courses in mathematics are important for those students who expect to pursue graduate work in psychology.

101R. PERSONALITY DEVELOPMENT.

201R. GENERAL PSYCHOLOGY. A sketch of the principles of psychology. An attempt is made to aid the student to a more intelligent understanding of human behavior. Prerequisite, twenty-four credits or permission of instructor. Biology 204 is strongly recommended as a prerequisite or concurrent course. Either semester, three hours a week, three credits.

202. ADVANCED GENERAL PSYCHOLOGY. Continues from the introductory course the study of the theory, research, and methodological problems in the areas of motivation, perception, and learning. Prerequisite, Course 201R with a grade of C or better. Second semester, three hours a week, three credits.

305, 306. DEVELOPMENT PSYCHOLOGY. A study of the development of individual behavior from prenatal life to old age. In the first
semester the psychological development of children is emphasized. The second semester is concerned with adolescence, maturity and senescence. One year, three hours a week, three credits per semester.

308. STATISTICS FOR THE BEHAVIORAL SCIENCES. An introduction to the statistical techniques used in the behavioral sciences. Prerequisite, consent of instructor. First semester, three hours a week, three credits.

310. EXPERIMENTAL PSYCHOLOGY. The methods of experimental science applied to the major fields of psychology. Students participate in individual experiments and class demonstrations. Second semester, three hours a week, three credits.

312. PSYCHOLOGY OF EXCEPTIONAL CHILDREN. A study of some of the psychological factors associated with exceptionalities in children and the impact of these deviations upon growth and development. Second semester, three hours a week, three credits.

313. PSYCHOLOGY OF ADJUSTMENT. The analysis of the techniques which are used to resolve the effects of blocking or conflict of motives. The learning of adjusive techniques is considered with respect to personality and mental hygiene. First semester, three hours a week, three credits.

314. ABNORMAL PSYCHOLOGY. The psychological study of the indications and causes of pathological behavior. Second semester, three hours a week, three credits.

322. PERSONNEL PSYCHOLOGY. A study of applications of psychological principles in personnel work. Second semester, three hours a week, three credits.

325. PERSONALITY. Consideration of the structure, organization and nature of personality as presented in the contemporary theoretical positions of Freud, Jung, Allport, Rogers and others. Special attention is given to the relation of theories of personality to other fields of study. Prerequisite, consent of instructor. First semester, three hours a week, three credits.

326. HISTORY AND SYSTEMS OF PSYCHOLOGY. A survey of the historical development of psychology and its major systematic points of view. Prerequisite, consent of instructor. First semester, two hours a week, two credits.

401, 402. INDIVIDUAL COURSE. A study of special problems, for students desiring to continue investigations begun in the regular courses or to carry out individual research in the field of their vocational choice. Prerequisite, consent of instructor. Two or three credits a semester.

404. INTERVIEWING AND COUNSELING.

409, 410. SEMINAR. Conferences and reports based on independent investigations in selected fields in psychology. Primarily for senior majors. Prerequisite, consent of instructor. One or two credits.
The courses offered by the department are distributed among three sections: A. Biblical Studies; B. Religious History and Thought; and C. Religious Education.

As a church-related institution the College expects its graduates to have acquired a knowledge of the Bible and Christian thought. Eight credits in religion are required for graduation. Six of these must be earned in Section A, and two credits in either Section B or Section C. Transfer students who do not offer equivalent credits from other accredited institutions must earn two credits for each year spent at Macalester. These should normally be selected from Section A.

Course 103R is a prerequisite of all departmental courses except 151R. Students who elect 105R may not take 201R or 203R for credit. Courses at the 300 level in Section A presuppose 103R and 105R, or 103R and 201R. Courses other than 151R in Section B are limited to juniors and seniors who have earned six credits in religion. Prerequisites may be waived only by consent of the department.

All courses in the department, with the exception of 305 and 341, meet two hours a week for two credits. Courses 305 and 341 meet three hours a week for three credits. Courses marked "R" are offered in both semesters each year.

Two types of departmental concentration are offered:

A. Religion. This type is designed to prepare students for theological seminary or other graduate study in religion. It consists of 24 credits and must include the following minimum distribution: Courses 103, 201, 203, at least one course at the 300 level in Section A and in Section B courses 305, 312, and 333. Philosophy 326 may be used to complete the major, and Philosophy 231 and 232 are strongly recommended as electives. A minor consists of a minimum of 15 credits.

B. Religious Education. This major is designed for students who wish to prepare for positions as assistants in Christian Education, YWCA and YMCA staff workers, and other forms of service in the church and community. The major consists of a minimum of 24 credits: 14 credits in Section A (including 103, 201, 203, and one course at the 300 level) and B (including 333 and either 305 or 308), and 10 credits in Section C. The minor consists of at least 15 credits, including 103, 201, 203, and 341.

The major in Religious Education offers an orientation for work in most Protestant denominations. The Board of Christian Education of the United Presbyterian Church, U.S.A. and the educational agencies of various other churches recommend that students majoring in Religious Education take certain supporting courses in other departments of the college. Students are counselled with reference to their particular vocational objectives.
Section A. Biblical Studies

103R. OLD TESTAMENT HISTORY. The history, literature and religion of the Hebrew people.

105R. INTRODUCTION TO THE NEW TESTAMENT. A survey of the New Testament period and its literature. Prerequisite, Course 103.


203R. THE NEW TESTAMENT CHURCH. The life and faith of the early church as reflected in Acts, the letters of Paul, and the later books of the New Testament. Prerequisites, Courses 103 and 201.

309R. PERSONAL USES OF THE BIBLE. An exploration into personal uses of the Bible in the development of creative spiritual living.

311R. THE BASIC TEACHINGS OF THE BIBLE. Analysis of the major themes of biblical thought.

314R. THE SOCIAL TEACHINGS OF THE BIBLE. Ethical principles derived from the Bible and their application to modern problems.

Section B. Religious History and Thought

151R. RELIGION AND LIFE. The general function of religion in human experience, with specific reference to the major types of religious expression in America.

305. THE HISTORY OF THE CHRISTIAN CHURCH. A study of the history and thought of Christianity from the second century to the present. First semester, three credits.

308. THE NATURE OF PROTESTANTISM.

312R. THE RELIGIONS OF THE WORLD. The major religious systems of East and West, with an evaluation of their significance in modern culture.

333. INTRODUCTION TO CHRISTIAN THOUGHT. Traditional formulations and recent interpretations of central Christian doctrines. Second semester.

335. PSYCHOLOGY OF RELIGION. An historical and constructive approach to the psychological analysis of religious experience and the interrelationships of religion and psychology. Second semester.

450. FUNDAMENTALS OF THOUGHT AND CONDUCT. Identical with Philosophy 450; may be counted in either department.

C. Religious Education

331R. THE RELIGIOUS AND MORAL DEVELOPMENT OF THE YOUNG CHILD. A study of the development of children from birth through the fourteenth year as it pertains to religious living. Prerequisite, four credits in Section A, or consent of instructor.

341. INTRODUCTION TO RELIGIOUS EDUCATION. This study
gives the student an insight into the teaching tasks and opportunities for leadership in the Christian Education movement. Prerequisite, four credits in religion. First semester.

342. MATERIALS AND METHODS IN RELIGIOUS EDUCATION. The use of media such as drama, story telling, art, music, audio-visual aids, arts and crafts as they can contribute to the program of the church. Prerequisite, Course 341 or consent of instructor.

343. RELIGIOUS EDUCATION AND THE ADOLESCENT. The history, problems and methods of Christian work with young people of junior high, high school, and college age. Prerequisite, Course 341, or consent of instructor. Second semester.

403-404. FIELD WORK IN RELIGIOUS EDUCATION. Placement of students in a church or religious agency with full responsibility for programs with a particular group under supervision. Class work is devoted to group consideration of problems encountered in the field and development of principles and resources for meeting them. Prerequisite, Courses 341, 342, 343. One year four credits.

401, 402. INDIVIDUAL COURSE. Supervised study of special topics in any of the three sections. Open to departmental majors with junior or senior standing and a general average of 2.3 or higher.

RUSSIAN

PROFESSORS PALMER AND MR. ALEXEEV

A minor in Russian consists of fifteen credits beyond 101-102. While no major in the language is offered, there is a major in Russian Studies which is described under Area Studies in this catalog.

See Humanities Program, page 66, for world literature in translation.

101-102. ELEMENTARY RUSSIAN. An introduction to the language. One year, five hours a week, eight credits.

201-202. INTERMEDIATE RUSSIAN. A continuation of the study of the Russian language and its literature with practice in conversation. One year, three hours a week, six credits.

203, 204. ELEMENTARY CONVERSATION. Recommended in conjunction with second year Russian. Either semester, two hours a week, two credits.

301, 302. SURVEY OF RUSSIAN LITERATURE. A survey of Russian literature from the beginning of the Golden Age to the present day. The reading of selected passages. Prerequisite, Course 202. Either semester, three hours a week, three credits.

303, 304. CONVERSATION. Prerequisite, Course 202. Either semester, two hours a week, two credits a semester.

321, 322. SELECTED READING. Prerequisite, Course 302 or consent of instructor. Either semester, one or two hours a week, one or two credits.
SECRETARIAL STUDIES
MRS. CYRILLA BURNS WOOD

This department prepares students to teach business subjects in secondary schools, to enter a secretarial career in industry or Government service, or to do graduate work in Education of Business Administration.

Those who plan to teach business subjects such as basic business, office practice, shorthand, typewriting, or bookkeeping must elect a major in Business Education and also qualify for a B.S. degree in Business Administration.

Those who desire a career in secretarial work or office management must elect a major in Political Science or International Relations with a Business minor. The Business minor consists of 25 credits, 9 credits from the Economics Department (see Part A below) and 16 credits from the Secretarial Studies Department (see Part B below).

### Part A
- Business Law 250
- Principles of Accounting 271
- One course from the following:
  - Introduction to Statistics 240R
  - Accounting Principles 272
- Monetary and Banking Policies 377

### Part B
- Typewriting 115
- Secretarial Procedure 302
- Beginning Shorthand 211-212
- Advanced Shorthand 311-312
- Recommended, but not required:
  - Office Management 303
  - Office Machines 301R
  - Business Communications 202

115R. TYPEWRITING. Training on both the manual and electric typewriters. *First semester, four hours a week, two credits.*

202. BUSINESS COMMUNICATIONS. Practice in writing (either in longhand or on the typewriter) up-to-date, effective business letters and reports. Analysis of letter styles. Practice in dictating business letters. *First semester, two hours a week, two credits.*

211-212. BEGINNING SHORTHAND. Theory of Gregg Shorthand; emphasis on developing a marketable degree of skill. *One year, three hours a week, six credits.*

301R. OFFICE MACHINES. Instruction and practice on modern office equipment—calculators, dictaphones, posting machines, and duplicating equipment. *Either semester, four hours of class work a week, two credits.*

302. SECRETARIAL PROCEDURE. Theory of handling office situations and developing personality traits for success in the secretarial field. *Second semester, two hours a week, two credits.*

303. OFFICE MANAGEMENT. Fundamental concepts and procedures in office organization and scientific management, including work simplification, effective layout, work distribution standards and routines, physical facilities and their effective usage in office economy. Case problems from business situations are submitted to the student for practical solution. *Second semester, two hours a week, two credits.*
311-312. ADVANCED SHORTHAND AND TRANSCRIPTION.
Theory review; emphasis on improvement of transcription techniques; dictation and speed building. Prerequisites one year of college shorthand, two years of high school shorthand, or by permission of instructor. One year, three hours a week, six credits.

481. BUSINESS EDUCATION (METHODS AND MATERIALS).
Requirement for business teachers. (See Education 481).

SOCIOMETRY

Professors Berry, Gustafson, Swain, Hoffman

There are three major emphases from which to choose: (1) General preparation for participation in community life and as unspecialized background against which to project a professional or vocational choice; (2) Courses selected as foundation for graduate professional education in sociology or related fields; (3) Social work for those who wish either (a) to seek employment in welfare agencies open to those with undergraduate training or, (b) to go directly from college to a graduate school of social work.

Students expecting to enter Social Work as a profession should plan for graduate training beyond the B.A. degree.

However, Macalester offers a pre-professional program designed especially to help the student who either: (a) finds it necessary to seek employment immediately upon graduation from college; (b) wishes to test further his choice of vocational goal; or (c) plans to work only a limited time in the field.

The pre-professional social work concentration is contained within the sociology major. It is recommended that a minimum of 18 credits of this major be accounted for by sociology courses, and that it be well reinforced with courses in psychology and social sciences. Plans should be made with the social work instructor by the beginning of the junior year. Seniors are placed in an appropriate agency to observe and work under supervision for a minimum of three hours each week for the year.

The department insists that its students should develop skill in observing and analyzing social situations as they have experienced them and as they now find them. The Twin Cities area provides a rich sociological laboratory to this end.

The major consists of 24 credit hours the order of which is selected in consultation with the faculty counsellor; the minor consists of 15 credit hours. All courses except 200R apply toward the major and minor.

Sociology 231R (or 233-234) is prerequisite to all courses except 200R.

200R. PREPARING FOR MARRIAGE AND PARENTHOOD. The everyday problems of courtship and family life. Prerequisite, sophomore standing. Either semester, three hours a week, three credits.

231R. INTRODUCTORY SOCIOLOGY. Societal structure and function: the social framework within which group life takes place. Either semester, three hours a week, three credits.
232R. SOCIAL PROBLEMS. Societal maladjustments with emphasis on those at the community level. Corrective agencies are contacted and their programs examined. *Either semester, three hours a week, three credits.*

233-234. PRINCIPLES OF SOCIOLOGY. A more comprehensive introductory course intended primarily for sociology majors. (see writeup of 231R.) *One year, three hours a week, six credits.*

300. SOCIOLOGY OF THE RURAL COMMUNITY. Impact of social change on the institutions of the rural community. *Second semester, three hours a week, three credits.*

301. RACE RELATIONS AND MINORITY PROBLEMS. Prejudices, racism, and differential treatment of minority peoples. Intergroup tensions and current programs. *First semester, three hours a week, three credits.*

305. CRIMINOLOGY. Criminological theories, criminal behavior, and treatment programs. *First semester, three hours a week, three credits.*

306. CULTURAL ANTHROPOLOGY. Comparison of cultural complexes in various societies and their impact on personality and behavior. *Second semester, three hours a week, three credits.*

307. SOCIOLOGY OF THE FAMILY. American marriage and family relationships; theories and current research. *First semester, three hours a week, three credits.*

310. INTRODUCTORY SOCIAL PSYCHOLOGY. Human behavior viewed as interaction of the individual and his socio-cultural setting. *Prerequisite, Psychology 201. Second semester, three hours a week, three credits.*

311. SMALL GROUPS. Analysis of the network of relationships in such groups as the committee, club, work team, gang, regarding group tasks, controls, morale, interpersonal conflicts; leadership, communication, norm formation, and problem solving processes. *Second semester, three hours a week, three credits.*

315. JUVENILE DELINQUENCY. Factors associated with delinquency; methods of adjudication and treatment; prevention efforts. *First semester, three hours a week, three credits.*

320. POPULATION PROBLEMS. Theories; trends and their social consequences. *Second semester, three hours a week, three credits.*

321. METHODS OF SOCIAL RESEARCH. Relationship of theory and method; research design and some techniques. (Psychology 308 is suggested as a prior course.) *Prerequisite, consent of the instructor. Second semester, three hours a week, three credits.*

324. SOCIAL CHANGE AND SOCIAL INSTITUTIONS IN THE FAR EAST. Forces, mechanisms, and directions of 20th Century change in selected countries. *Prerequisite, consent of instructor (evidence of prior knowledge of some non-Western culture). Second semester, three hours a week, three credits.*
326. SOCIOLOGY OF LARGE SCALE ORGANIZATION. The internal structure of these modern complex units; relationships to one another and to society. Second semester, three hours a week, three credits.

351. FIELDS OF SOCIAL WORK. An introductory survey course. Major types of welfare programs and their historical roots. Public and private welfare as an integral part of a modern socio-economic order. First semester, three hours a week, three credits.

353. INTRODUCTION OF SOCIAL CASE WORK. Working with the individual in the agency setting. Case studies. Prerequisite, advanced standing in sociology and psychology, senior standing. First semester, two hours class work a week, minimum of three hours supervised observation in a related agency a week, three credits.

354. PUBLIC WELFARE. Government sponsored welfare services on federal, state, and local levels. Philosophy underlying such services; actual workings of county welfare program. Prerequisite, senior standing or consent of instructor, advanced standing in sociology. Second semester, hours same as 353, three credits.

356. INTRODUCTION TO GROUP WORK. Programs and techniques used in settlement house, scouting, summer camps and the like. Prerequisite, senior standing, advanced standing in sociology. Second semester, class hours same as 353, three credits. Alternate years.

358. INTRODUCTION TO CHILD WELFARE. Three credits. Alternate years.

392. COMMUNITY AS A LABORATORY. Opportunity for approved study or research projects by an individual or a group. Prerequisite, consent of the instructor. Either semester, one to three credits.

401R. INDIVIDUAL READING. Prerequisite, advanced standing in sociology and consent of instructor. Either semester, one to three credits.

403. SOCIOLOGICAL THOUGHT AND THEORY. American and European sociologists since Comte. First semester, three hours a week, three credits. Alternate years.

492. COMMUNITY AS A LABORATORY. (see writeup of 392). Prerequisite, advanced standing in theory and method. Either semester, one to three credits.

SPANISH

Professors Dasett, Cavazos, and Pattison

A major consists of Courses 201-202, 301 and 315, 316, plus enough courses numbered 300 or above to make a total of 24 credits.

A minor consists of courses 201-202, plus enough courses numbered 300 or
above to make a total of 15 credits. If the student plans to teach, Course 315, 316 must be taken. Courses 101-102 is not counted toward a major or minor. See Humanities Program for world literature in translation.

101-102. ELEMENTARY SPANISH. Pronunciation, grammar, essentials, elementary conversation and reading. One year, five hours a week, eight credits.

105-106. ELEMENTARY SPANISH. Pronunciation, grammar essentials, vocabulary building for teaching in the elementary grades. Usually offered only in Summer Session. One year, three hours a week, six credits.

201-202. INTERMEDIATE SPANISH. Grammar review, conversation, readings from Spanish and Latin American authors. Prerequisite, Spanish 102 or two years of high school Spanish. One year, three hours a week, six credits.

301, 302. SURVEY OF SPANISH LITERATURE.

303. MODERN SPANISH DRAMA. From Moratin through Galdós, with special emphasis on the Romantic Movement. First semester, three hours a week, three credits.

304. MODERN SPANISH NOVEL. Emphasis is on the 19th century authors. Second semester, three hours a week, three credits.

305, 306. SURVEY OF SPANISH AMERICAN LITERATURE.

315, 316. CONVERSATION AND COMPOSITION. Special attention paid to pronunciation, oral and written expression, and understanding of spoken Spanish. Prerequisite, Course 202. Either semester, two hours a week, two credits.

375, 376. ADVANCED CONVERSATION AND COMPOSITION. Prerequisite, Spanish 315 and 316 or by special arrangement. Either semester, two hours a week, two credits.

385. CERVANTES AND THE QUIJOTE. A study of the man, his most important work, and its impact on world literature. First semester, three hours a week, three credits.

405R. INDIVIDUAL COURSE. Advanced students may undertake individual projects in areas not regularly offered. Either semester, hours and credits arranged.

TEACHERS' COURSE. See Education 454 and Elementary Education 323.

SPEECH AND DRAMA

PROFESSORS OWEN, HATFIELD, MOSVICK, BORCHARDT, BAUMAN, AND MRS. CONGDON

Speech and Drama Department courses are designed to give scholarly training in historic and contemporary theories regarding the speech arts areas and to teach the fundamental techniques of performance in the phases
of Interpretation and Theatre, Rhetoric and Public Address and General Speech. To deepen student appreciation and understanding of the areas involved, all curricular activity is fortified with co-curricular laboratory assignments. The laboratory assignments include, as the opportunities arise in the Twin City area, the experiences of being members of the listening audience at live and/or filmed performances of the work of outstanding nationally and internationally known artists of the theatre and of the realm of public address. The laboratory assignments are critiqued and used specifically to deepen the guidance of class assignments in theory and performance.

Those students intending to enter graduate study should choose either emphasis of Interpretation and Theatre or Rhetoric and Public Address. Those students intending to enter the teaching field should choose the General Speech emphasis.

All department majors and minors are required to take seminar course work in their senior year. Students are urged to integrate work in these courses with the College Honors Program, whether they intend to do graduate study or to teach.

Any student in the department who demonstrates the capacity to do individual creative work in any area of the speech arts is encouraged to do so. The State of Minnesota Department of Education, Certification Division, requires teachers of speech to have fulfilled the requirements of either a college major or minor in General Speech. Those students at Macalester who expect to teach speech in the public schools must take, in addition to the General Speech major or minor, Education 451, Speech Methods. Until the state requirement is satisfied by the student who wishes to teach speech, the Macalester department of Speech and Drama will not be in a position to recommend that the student be certified by the state to teach speech.

The department strongly recommends electives in the combined Rhetoric and Theatre areas because it feels this gives the student a broader liberal arts basis for his undergraduate training. However for specific reasons, which he will state in writing over his adviser's signature, he may have departmental permission to do emphasis either in Rhetoric and Public Address or Interpretation and Theatre.

Course 151 fulfills the Fine Arts requirement of the College.

All majors and minors are required to take courses 200, 201-202, 203-204. Thirty-two credits are required for a major and eighteen credits for a minor. Four credits for either a major or minor must be taken in the senior year. In addition, for either a major or minor in the department, a supporting minor is required of 18 credits in any one of the following divisions: the social sciences, the natural sciences, literature and foreign languages, philosophy and religion, or music and art.

Requirements for Departmental Majors or Minors Going Into Graduate Work


Majors or minors going into teaching of speech are required to take the following courses in General Speech: 199-200, 201-202, 203-204, 261, 263, 307-308, 309-310 (also Education 451).

In addition, all majors and minors either in A. Interpretation and Theatre, B. Rhetoric and Public Address or C. General Speech must include a supporting minor of 18 credits in any one of the following divisions: the social sciences, the natural sciences, literature and foreign languages, philosophy and religion or music and art.

Course 185 is specifically designed to meet the requirement of non-Speech major and minors. Procedure from 185 to 200 may not be made except by pre-arranged inter-departmental permission for students involved in specific academic areas as in the Business and Elementary Education sequence or by written departmental permission to qualified students involved in such sequence difficulties as transfer or change of major emphasis. This course does not fulfill the fine arts requirement of the College. By special interdepartmental arrangement students in Business may elect course 199 without course 200, instead of course 185 if they so designate at registration time.

151. EXPERIENCES IN CONTEMPORARY THEATRE. A study of trends and ideas in contemporary theatre including theory, reading, appreciation, and field trips to amateur and professional productions in the area. *No prerequisites, first semester, two hours a week, two credits. This course satisfies the College Fine Arts requirement.*

185. APPLIED SPEECH. A service course with emphasis placed on the basic principles of the speech skills. Includes theory, practice, and laboratory assignments in listening, participation and field trips in allied areas. Designed to fulfill major Speech requirements for non-Speech majors. *No prerequisite, either semester, two hours a week, two credits.*

199-200. SPEECH FUNDAMENTALS. A beginning course which surveys historic and contemporary theories as well as techniques of performance in the speech arts areas. Concentration is on the students learning thru doing. Projects include work in the areas of Rhetoric, Interpretation and Theatre. Superior students who have participated extensively in curricular or co-curricular activities in secondary schools, other colleges, the armed forces, or in other qualified areas may petition the department for written permission to be exempt from 199. *Prerequisite, instructor’s permission. One year, six credits. Only 200 (a total of three credits) counts toward a major or minor in Speech.*

COURSE SEQUENCE FOR MAJORS OR MINORS IN SPEECH

201R. ORAL INTERPRETATION. Includes analysis, adaptation, memorization of both classical and contemporary prose and poetry, practice in program building, and performance. Laboratory field trips to performance in allied areas are an integral segment of the course. *Prerequisite, Course 200 or instructor’s permission, two hours a week, two credits.*
203-204. CHORAL READING. Analysis and interpretation of literature, both classical and contemporary, for group reading and program presentation. The group is limited and selected. Specified group study periods are an integral part of this course. Prerequisite, instructor's permission. Two hours a week, one credit per semester.

205. FUNDAMENTALS OF ACTING. Historic and contemporary theories and techniques are studied and performed. Field trips in allied areas are an integral part of the course. Prerequisite, Speech 200 or instructor's permission. First semester, three hours a week, three credits.

217. CHILDREN'S THEATRE. The theories and technique of selecting, evaluating, directing, and staging dramatic literature for children's theatre. Field trips are an integral part of the course. Recommended for students majoring in elementary education, religion, recreational and community leadership. No prerequisite. First semester, two hours a week, two credits.

218. CREATIVE DRAMATICS. Theory and technique in the skills of guiding children through informal dramatic activities in classroom and recreational situations. Laboratory assignment includes observation and direction of children's class demonstration group. Recommended for students majoring in elementary education, religious, community and recreational leadership. Second semester, three hours a week, three credits.

261. ARGUMENTATION AND DEBATE. Includes analysis of the annual national collegiate debate proposition and issues, research techniques, case building, composition, and style of debate speaking. Required participation in three major collegiate tournaments is an integral part of the course. Prerequisite, Course 200 or instructor's permission. First semester, three hours a week, three credits.

263. RHETORIC AND PUBLIC SPEAKING. Includes an analysis of the history of rhetoric, classic and contemporary speech criticism, the analysis of techniques, composition, and audience psychology in the public speaking performance. Participation in one inter-collegiate tournament is an integral part of the course. Prerequisite, Course 200 or instructor's permission. Second semester, two hours a week, two credits.

270. PARLIAMENTARY PROCEDURE. Study of and the practical participation in the fundamental rules of parliamentary procedure. Participation within parliamentary assemblies an integral part of the course. No prerequisite. Second semester, two hours a week, two credits.

303-304. ADVANCED INTERPRETATION. A course in interpretation with emphasis in the area of platform performances and solo theatre. The reading, adaptation, and presentation of classical and contemporary dramatic literature as well as the research, writing, and presenting of original manuscripts for solo theatre form the basis of the course. The various areas culminate in group and individual recitals. Performances before community groups are encouraged. Laboratory field trips to performances in allied areas
are an integral part of the course. Prerequisite, 201R or instructor's permission. One year, two hours a week, four credits.

307-308. STAGECRAFT. History of the theories of stagecraft from the Greeks to contemporary theatre. Laboratory assignments include crew work on departmental productions affording the student valuable experience in designing and mounting a theatrical production. Required of speech majors and minors during the sophomore year. Prerequisite, Speech 200 or instructor's permission. One year, four hours a week, six credits.

309-310. PLAY DIRECTION. Study of the fundamentals of composition, movement, stage business, rehearsal routine in play direction, and styles of production from Aristotle through contemporary theatre. Laboratory experience in direction and field trips are required. Prerequisite, Courses 307 and 308 or instructor's permission. One year, three hours a week, six credits. Offered even numbered years.

311. HISTORY OF THE THEATRE. A study of the evolution of theatrical forms from prehistoric to present times. The evolution of theatre architecture and theatrical techniques is studied in relation to man's development. Prerequisite, instructor's permission, second semester, three hours a week, three credits.

360. DISCUSSION. The principles and types of discussion. Participation in experiments in group dynamics, field trips required. Prerequisite, Course 200 or instructor's permission. Offered in even numbered years. Second semester, two hours a week, two credits.

362. ADVANCED ARGUMENTATION AND DEBATE. Further application of basic principles of argumentation and debate, preliminary analysis of logic, study of the principles of tournament management. Participation in three major inter-collegiate debate tournaments is an integral part of the course. Prerequisite, Course 261. Second semester, three hours a week, three credits. Offered in odd numbered years.

401, 402, 403, 404. SEMINARS. Individual, independent, creative seminars in selected phases of Theatre and Interpretation and Rhetoric and Public Address. Designed for students with demonstrated ability to conduct independent study. The student is urged to integrate this work with the Honors Program. Accent is upon individual study culminating with a presentation of study to other members of the seminar.

Courses in Telecommunication will be arranged in the Fall 1962.
COLLEGE FINANCES

TUITION AND EXPENSES

TUITION and fees are due and payable at the beginning of each semester, before completion of registration and before the student is admitted to classes. A student may, however, pay his fees in installments. For information on the installment plan, write to the Comptroller's Office, Macalester College, St. Paul 1, Minn.

A deposit of $50, later applied to tuition, will be collected with the applying student's acceptance of his notice of admission. This deposit is refundable if the student officially withdraws before June 1. Each person notified of admission will be given thirty days from that notice to accept the admission and pay the deposit.

All new students must make a payment of $10 with their application for admission. This payment is not refundable.

Tuition for a student taking eleven credit hours or fewer is charged at $40.00 per credit hour. Those taking eleven or fewer credit hours will be charged a proportionate share of the $12.50 activity fee. The activity fee is not refundable.

A fee of $15.00 is charged for each credit hour in excess of eighteen.

A fee of $5.00 is charged for each course audited without credit. Auditors registering in the plastic arts will pay a $25.00 auditor's fee and a $5.00 registration fee. No auditors will be permitted to register for stenography, typewriting, speech or music courses. Auditors registering in plastic arts at the above fee and in other courses at the published fee will do so only on the approval of the instructor.

Per Semester

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
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<tbody>
<tr>
<td>Tuition</td>
<td>$450.00</td>
</tr>
<tr>
<td>Activity Fee</td>
<td>12.50</td>
</tr>
<tr>
<td>Change of Course</td>
<td>1.00</td>
</tr>
<tr>
<td>Guarantee Breakage Fee (for dormitory students)</td>
<td>2.50</td>
</tr>
<tr>
<td>Graduation Fee (diploma)</td>
<td>5.00</td>
</tr>
</tbody>
</table>
Enrollment after the scheduled registration period each semester is subject to a fee of $1.00 for the first day thereafter and 50¢ for each subsequent day.

Music Fees

<table>
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<tr>
<th></th>
<th>Per Semester</th>
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</thead>
<tbody>
<tr>
<td>Private lessons in piano, organ, voice, violin and wind instruments</td>
<td>$45.00</td>
</tr>
<tr>
<td>Full-time student</td>
<td>$45.00</td>
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<tr>
<td>Special student</td>
<td>55.00</td>
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<tr>
<td>Class lessons in piano, each student</td>
<td>15.00</td>
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</tbody>
</table>

Rental fees of practice organs in churches near the campus are established by the churches.

Education Fees

<table>
<thead>
<tr>
<th></th>
<th>Per Semester</th>
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</thead>
<tbody>
<tr>
<td>Education 409-410, 415-416 (Elementary)</td>
<td>$22.50</td>
</tr>
<tr>
<td>Education 411R (Secondary)</td>
<td></td>
</tr>
<tr>
<td>Five credits</td>
<td>20.00</td>
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<tr>
<td>Six credits</td>
<td>25.00</td>
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</table>

**TUITION REFUNDS**

Tuition is not refunded after midsemester except in cases of illness. For purposes of calculating the tuition refund during the first half of the semester, two weeks are added to the date of the cancellation notice and the refund is calculated on the proportion that the unused portion bears to the total semester. No tuition refunds are granted without first receiving a proper notice of cancellation from the Academic Dean’s Office.

In case of prolonged illness which removes the student from college for a period of a month or more, refunds are made on tuition and room from the end of a two weeks’ period following the beginning of illness, according to the records of the college nurse. Board is charged to the nearest weekend after the beginning of illness. No tuition is refunded on courses completed for credit.

Students who fail to meet accounts when due are denied class room privileges and credits are withheld until satisfactory settlement is made with the Business Office.

If a student leaves the institution at any time after entrance without the approval of the faculty, or because he has been suspended or dismissed, no tuition is refunded.
Students working for the college will have all bills due the college deducted from the amount due them before being paid for work performed.

SPECIAL RATES

Tuition discounts are allowed, upon approval of the College Chaplain, at the rate of twenty per cent per semester to (1) sons and daughters of ministers of any denomination, or to (2) candidates for the ministry, of whatever church or denomination, upon the following conditions:

(a) Each candidate shall present to the College Chaplain a certifying letter from his proper church authority.

(b) All such students will be held honor bound to refund to the college treasury the amount of tuition rebated in case they abandon their purpose to enter the ministry.

ROOM AND BOARD

Macalester College provides a residence hall program of six halls that accommodate 275 men and 425 women. Kirk Hall and Dayton Hall are occupied by men; women students reside in Bigelow, Summit, Turck and Wallace Halls. The group living experience in the residence halls is considered an integral part of the total educational development of the residents. The resident counseling staff, the student counselors and the student house councils all strive cooperatively to provide a well balanced and significant educational experience.

Applicants interested in residing in a residence hall will be provided with a residence hall application at the same time they receive notice of admission to the College, and should return it immediately to the Admissions Office if they desire accommodations. Residence hall accommodations are assigned in order of the receipt of residence hall applications accompanied by a reservation fee of $25.00. This fee is applied toward the room charges at the time of registration. If registration is cancelled before June 1st, the fee will be refunded.

Room rents and board are paid in the manner prescribed for tuition and fees. Arrangements may be made with the Business Office to pay these expenses in installments in the same manner as the payment of tuition and fees.
### WOMEN

**BIGELOW HALL**
- *Board in dining room 5 day week, each person* $165.00
- Room rent, each person in double room $137.50
  - in single room $147.50

**SUMMIT HOUSE**
- **Board in Cafeteria (minimum)** $165.00
- Room rent—each person $137.50

**TURCK HALL**
- *Board in dining room 5 day week, each person* $165.00
- Room rent, each person, in double room $137.50

**WALLACE HALL**
- *Board in dining room 5 day week, each person* $165.00
- Room rent, each person, in double room $137.50
  - in single room $147.50
  - in triple room $120.00

### MEN

**KIRK HALL**
- **Board in Cafeteria (minimum)** $165.00
- Room rent, each person, in suites $147.50
  - in double room $147.50
  - in single room $147.50

**DAYTON HALL**
- **Board in Cafeteria (minimum)** $165.00
- Room rent, each person, double room $137.50

The residence halls and dining halls are closed during Christmas vacation: for the shorter vacations, Thanksgiving, semester break and Easter, provisions are made for students to reside in one of the halls. Students are charged for their rooms by the semester and until they are formally vacated and keys surrendered. Each dormitory resident is held responsible for the rent for the entire semester whether he has occupied the room continuously or not. A deposit of $2.50 is required from each student each semester as a damage fee.

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* Board at Wallace Hall, Turck Hall and Bigelow Hall is furnished 5 days a week in the dining room in each hall. Boarding in dining rooms is required of all students residing in Wallace Hall, Turck Hall and Bigelow Hall.

** Board for residents of Kirk Hall, Dayton Hall and Summit House, as well as for residents of Wallace Hall, Turck Hall and Bigelow Hall, on weekends, and for those students living in private homes in the vicinity of the campus, is available in the Student Union Cafeteria. Students living in Summit House are required to buy a meal book of $165.00 per semester, as are students living in Kirk and Dayton Halls; no refund will be made on this charge. This meal book will not provide full board which is estimated to cost about $225.00 per semester. Prices are subject to change.
From this fee are deducted any damage charges. Refunds, if due, are made at the end of each year.

STUDENT HOUSING

MEN'S RESIDENCE HALLS

There are three types of rooms in Kirk Hall: a study with two or three adjoining single bedrooms; single rooms comprising both study and bedroom; and rooms with facilities for two men (double rooms). Each student is provided with a study table, two chairs, a bed, a combination dresser and wardrobe with mirror, and curtains for all windows.

In Dayton Hall for men, each double room has built-in book shelves and wardrobes with drawers. Each room has study tables, study chairs, two beds, an occasional chair, curtains for the windows and a lavatory.

WOMEN'S RESIDENCE HALLS

In Wallace Hall, where there are single, double and triple rooms, each room has single beds, dressers, study tables, chairs and a lavatory.

In Bigelow Hall each room has the following built-in equipment: wardrobe with drawers, study desk, book shelves, dressing tables with mirrors and lavatory. Each room also has single beds and two study chairs.

In Turck Hall, there are built-in book shelves and wardrobes with drawers. Each double room has two study desks, two study chairs, an occasional chair and single beds. Each room has a lavatory.

In Summit House, the residence hall usually reserved for upper-classmen, the residents live in a home-like atmosphere with a limited number of other women. Rooms are furnished with study desks, study chairs, beds and wardrobes or closets.

The residence halls furnish pillows and linens (including sheets and pillow cases); laundry service for the bed linen is included in the residence hall charges. All women students in the residence halls provide their own blankets, bedspreads, draperies or curtains, towels and desk lamps. The men students provide the above items with the exception of curtains, which are furnished in the rooms of the men's halls.
OFF CAMPUS HOUSING

Students who do not live at home or with relatives are expected to room in a college residence hall insofar as accommodations are available, unless they are officially permitted to live elsewhere. Application for such permission must be made through the Dean of Students Office.

If all residence halls are filled, students may obtain living accommodations from a list of rooms approved by the College authorities. Such student is expected to conform to the general social regulations in force in the College residence halls. Change in residence shall be made only when officially approved.

STUDENT AID AND SELF-SUPPORT

Statement of Policy

Macalester College provides a variety of financial aids to full-time students through scholarships, loans, prizes, service contracts, grants-in-aid and ministerial discount. These programs, like others in the personnel area, operate from definitely stated policies.

The type and amount of aid varies according to the student's need, scholastic standing, leadership potential and character. The student aid program is designed to give a reasonable amount of financial assistance to a large number of students rather than to concentrate extensive grants on a smaller number of individuals chosen because of special ability.

In order for the student to be considered for aid, his parent or guardian must submit a Parents' Confidential Statement to the College Scholarship Service, Princeton, New Jersey. Macalester College receives from CSS a copy of the Parents' Confidential Statement, along with a needs analysis. The College reserves the right to refuse aid to students whose family income is sufficient to meet expenses, since such grants might deprive some needy student of the opportunity to attend college.

I. General Policies

A. Financial assistance to students is administered by the Financial Aid Committee under the general policy that,

(1) all financial assistance awarded is based on academic background, grades earned in high school, standardized test scores, financial need, leadership ability, character and
potential service to society, (2) foreign students coming to Macalester College shall state their financial situation in writing when applying for admission to the College, and (3) consideration will be given to students participating in extracurricular activities which require use of free time that the student could use to raise his/her scholastic standing.

B. Types of Financial Assistance

1. Scholarships
   a. Prize scholarships
      Prize scholarships are awarded on the basis of need to the highest ranking boy or girl of their high school class enrolled as a freshman. The maximum amount for these scholarships is one semester's tuition which is credited to the second semester. The student must maintain a 1.00 (C) average or better during the first semester to be eligible.
   b. Honor scholarships
      Honor scholarships are awarded to those who meet the requirements for other scholarships, but do not show financial need.
   c. Endowed scholarships
      There are two types of endowed scholarships (listed under Scholarship Funds below) available at Macalester. In one, the Financial Aid Committee determines the recipients, the bases being a 2.00 (B) average or better and financial need. In the second, the recipient is determined with the consent of the donor or his executor according to the criteria of each scholarship.
   d. General scholarships
      General scholarships are awarded to entering freshmen showing financial need and having a high school rank above the 75th percentile, plus a college ability test score above the 75th percentile. Awards to upperclassmen are available to those earning a 2.00 (B) average or above.
   e. Junior College scholarships
      Scholarships are awarded to graduates of accredited Junior Colleges when financial need is indicated, if the graduate is in the upper half of his class and enters Ma-
calsester College with junior standing. The maximum award is one semester’s tuition based on the need of the student.

2. Grants-in-Aid
Grants-in-Aid are designed to assist students who show academic promise, but whose grade point average (or percentile rank for entering freshmen) is below the minimum for scholarship aid and who are unable to devote time to a large service contract. No services are required.

3. Service Contracts
Service contracts are awarded to students who receive aid in exchange for work in a department of the college. These are awarded for the school year but will be continued for the second semester only if fulfilled in a satisfactory manner. In other words, assignees must attain an average of 1.00 (C) or above for the first semester if the contract is to be continued. Failure to maintain the 1.00 (C) average cancels the contract.

4. Ministerial Discounts
A reduction of 20% in the tuition is granted to sons and daughters of ordained ministers. Students preparing for the ministry who have been accepted for this vocation by their church body are also granted similar reduction without discrimination as to denomination. All ministerial discounts must be approved by the Chaplain of the College. Cf. page 141.

5. Loan Assistance
Macalester College participates in the National Defense Student Loan Program, created under the National Defense Education Act of 1958. These loans are available at a low interest rate which begins one year after discontinuing a full-time course of studies. Macalester also provides assistance through its own loan program.

For additional information, write to the Chairman of the Financial Aid Committee, Macalester College, St. Paul 1, Minnesota.

Applications must be obtained from the College Scholarship Service, Box 176, Princeton, New Jersey. Deadline for filing applications is April 15th.
KINDS OF FINANCIAL AID

ENDOWED SCHOLARSHIPS AND LOAN FUNDS

The following scholarships are available at Macalester College because of generous gifts creating endowed funds, the income from which is awarded annually to outstanding students who would otherwise be financially unable to avail themselves of a Macalester education.

The name of the scholarship appears in italic letters and is followed by the year in which the fund was established (in parenthesis), then the name or Class of the donor or donors, and the preference, if any, to be given in awarding the scholarship.

In some instances the initial gift was augmented by anonymous donors.

At the time this Catalog goes to print the College's endowment funds designated for scholarships total approximately $1,431,000.

_Anstice T. Abbott_ (1962). Established by the national Wood's School Alumnae Association for an elementary education major. Principal, $2,500.

_Roy C. Abbott_ (1958). Established by the treasurer of Reader's Digest Association, Inc. Principal, $1,600.

_Barclay Acheson_ (1959). Established by members of his family in memory of Dr. Acheson, who was Director of Near East Relief and, later, of the International Editions of the _Reader's Digest_. A graduate of Macalester College, 1910, he served on the Board of Trustees 1937-1957. Principal, $19,526.

_Horace M. Albright_ (1961). Established by Horace M. Albright, nationally known conservationist and former director of the National Park Service. Principal, $5,000.

_Hugh S. Alexander_ (1957). Established by friends and former students of Dr. Alexander, Professor of Geology at Macalester 1906-1948. Principal, $3,605.

_The Isabelle Strong Allen Endowed Scholarship_ (1962). Principal, $2,500.

_Alumni_ (1958). Established by former Macalester students through contributions so designated to the annual Alumni Fund. Principal, $24,463.94.
American Cyanamid Company (1962). Established by the American Cyanamid Company. For upper-classmen who are taking a pre-medical course in preparation for entrance to a medical school. Principal, $50,000.

William R. Angell Foundation Biology Scholarship (1957). Established by the Detroit foundation, named for the late president of Continental Motors Corporation, Muskegon, Michigan. For students majoring in Biology. Principal, $10,000.


Clarence D. Baker-Dr. James Wallace (1958). Established by Harry D. Baker, president of the Baker Land and Title Co. of Saint Croix Falls, Wisconsin, in memory of his brother, Clarence D. Baker, Class of 1898, and of Macalester’s fifth president, Dr. James Wallace. To be paid twice annually, when most needed by beneficiaries, to deserving rural students with satisfactory scholastic records and outstanding reputation for industry and integrity, and who show determination to make their own expenses as far as possible. Principal, $10,250.

Bruce Barton (1957). Established by the New York advertising executive, author and former United States Representative. For a student of high scholastic standing who has shown unusual qualities of leadership. Principal, $11,095.50.

William Benton (1957). Established by the publisher and chairman of the board of Encyclopaedia Britannica and former United States Senator and Assistant Secretary of State. For students of unusual ability who plans on a career in government. Principal, $21,000.

Frank Stanley Beveridge (1958). Established by the Frank Stanley Beveridge Foundation in memory of the founder of Stanley Home Products, Westfield, Massachusetts. Principal, $5,000.


Frederick O. Bohen (1959). Established by the President of the Meredith Publishing Company, Des Moines, Iowa, publishers of Better Homes and Gardens and Successful Farming. Principal, $5,000.

John S. Campbell (1959). Established by the President of Malt-O-Meal Company of Minneapolis. Mr. Campbell is a former student of Macalester. Principal, $2,500.


Colby Mitchell Chester (1958). Established by the Chairman of the Board of General Foods Corporation, 250 Park Avenue, New York City. Principal, $7,540.

Christian Service Scholarship (1953). In memory of Gertruida Niemeyer; established by her daughters, Gertrude and Joanne, and her son, Reinder, in memory of their mother, who immigrated to the United States from Holland. Preference is to be given to a student from Merriam Park Presbyterian Church in St. Paul, who is planning to enter Christian service that is sponsored by the church. Principal, $4,880.

Glenn Clark (1957). Established by friends and former students in memory of Professor Clark, Chairman of the English Department and track coach at Macalester 1912-1944. Principal, $7,686.50.

Class of 1927 (1957). Established by members of the Macalester Class of 1927. Principal, $2,900.

Class of 1943 Loan Fund. The Class of 1943 purchased war bonds as a class memorial to be left with the College as a loan fund for Macalester ex-servicemen. This fund is administered through the regular student aid channels and is available during the early years of its establishment to Macalester ex-servicemen and later to their direct descendants. In due time, by agreement of members of the class, it may be transferred to a scholarship fund. Principal, $222.

Class of 1960 (1960). Established by members of the Macalester Class of 1960. Principal, $1,748.11.
H. W. Coffin (1926). Established by Mrs. Mary E. Coffin of Duluth. For a student who is a relative of the H. W. Coffin family, or who is from the Glen Avon Church, Duluth, preparing for the ministry or missionary work, in the order named. Principal, $2,500.

L. D. Coffman. The principal of this fund is used as a general loan fund. Interest received from students on this fund is applied to increase the principal. Principal, $300.

A. L. Cole (1957). Established by the Vice-President and General Manager of the Reader’s Digest. Principal $31,000.

John C. Cornelius (1958). Established by the Minneapolis advertising executive and President of the American Heritage Foundation. Principal, $5,000.


Gardner Cowles (1961). Established by the editor and president of Look Magazine. Principal, $10,000.

Ira L. Crawford (1903). Established by his brothers and sisters in memory of Ira L. Crawford, one of the pioneers of Rock County, Minnesota. Principal, $1,000.

Dames of the Round Table. This fund was established in memory of Mrs. Jennie E. Straight. A loan from this fund is to be repaid not later than one year after the student has left college. An extension may be granted at the discretion of the college with consent of the donors. Principal, $120.

Charles A. Dana (1962). Established by Mr. Dana, nationally known industrialist. Awarded only to students in the upper three classes of the College. Principal, $50,000.

Dr. and Mrs. Solomon D. David (1960). Established by Dr. David, orthopedic surgeon, Houston, Texas, Macalester graduate, Class of 1913. Principal, $5,400.

George W. Davis (1958). Established by friends and former students in memory of Professor Davis of the Political Science Department at Macalester College 1892-1934. Principal, $8,091.

The George W. Davis Memorial Scholarship Fund in Religion
Established by Ethel Mary Davis in memory of her husband, Dr. George W. Davis, Professor of Hebrew and Biblical Literature (1892-1899) and Professor of Social and Political Science at Macalester College, 1892 to 1934. This fund is awarded by the Department of Religion to Juniors (for use in their Senior year) who in the judgment of the Department of Religion have attained the highest degree of excellence. Principal, $25,534.53.

Mr. and Mrs. Paul H. Davis (1960). Established by Mr. Davis, consultant in institutional finance and public relations, Los Angeles, Calif. Principal, $4,850.

Walter H. Deubener (1959). Established by the Deubener-Juene­man Foundation and named for Mr. Deubener of Saint Paul, who developed the paper shopping bag. Principal, $6,500.


Cleveland E. Dodge (1959). Established by the Vice-President of Phelps,Dodge Corporation, the copper company, New York City. Principal, $6,000.


Margaret Weyerhaeuser Driscoll (1960). Established by Mrs. Driscoll, Vice-President, Board of Christian Education, United Presbyterian Church, U. S. A., and member of the Board of Trustees, Macalester College. Principal, $7,000.

Pendleton Dudley (1957). Established by the senior partner of Dudley-Anderson-Yutzy of New York, who is known as dean of the public relations profession. For an unusually talented young man who aspires to be a teacher. Principal, $19,000.

Frederick H. Ecker (1958). Established by the former President and Chairman of the Metropolitan Life Insurance Company, which he has served since 1883. Principal, $6,500.

Charles Edison (1957). Established by the chief executive officer of Edison Industries, West Orange, New Jersey, and son of the inventor. For a student of unusual promise interested in a career in science. Principal, $6,500.
Charles W. Eisenmenger (1959). Established through a bequest in the will of Mr. Charles W. Eisenmenger, the Saint Paul meat dealer. Principal, $10,000.


Paul A. Ewert. This fund was established by the will of Paul A. Ewert of the Class of 1894, the income of which is to be used in making loans to worthy students.*


James Faricy. The principal of this fund is used as a general loan fund. Interest received from students on this fund is applied to making loans to worthy students.*

Field Enterprises Educational Corporation Scholarship Fund, Marshall Field, Jr., chairman (1959). Principal, $10,000.

Harvey S. Firestone, Jr. (1960). Established by the chairman of the board of the Firestone Tire and Rubber Company. Principal, $20,400.

First Presbyterian Church of Lake Crystal, Minnesota (1960). Established by the Presbyterian Church of Lake Crystal with money received from the R. G. James estate. Principal, $3,000.


D. Fraad, Jr. (1959). Established by the President of Allied Maintenance Corporation of New York City. Principal, $8,000.

Wilfred Funk (1957). Established by the book and magazine publisher of New York. For a student of unusual ability. Principal, $10,000.

Grace Presbyterian Church (1961). Established by the Women's Association of Grace Presbyterian Church of Minneapolis and George P. Leonard of Los Altos, California. Principal, $1,600.

William T. Grant (1956). Established by the chain store executive of New York City. For a student of outstanding academic achievement. Principal, $20,000.

Ruth and Fred Guinzburg (1961). Established by Mr. and Mrs. Guinzburg, New York City. Principal, $5,000.

James Guy (1960). Established by James Todd Guy, attorney at law, Milwaukee, Wisconsin, Macalester graduate, Class of 1908, in memory of his father who was a member of the College staff at the turn of the century. Principal, $2,500.

J. H. (Mo.) (1959). From an anonymous donor of Missouri. Principal, $36,000.

John P. Hall (1961). Established by Dr. L. Margaret Johnson, '20, in memory of Professor Hall, Registrar and Professor of Greek, 1897–1945, coach of baseball and director of the Men's Glee Club. Principal, $1,665.


Charles Hattauer (1958). Established by the New York dental surgeon. Principal, $8,000.

G. L. Heegaard (1960). Established by Mr. Heegaard, retired industrialist and bank director, who was a student at Macalester's Baldwin Academy. Principal, $16,300.

Lydia Schroedel-Hobart (1960). Established by Mell Hobart, Macalester graduate, Class of 1908, and former Macalester trustee, in memory of his wife, also a graduate of the Class of 1908. Principal, $2,500.

Jennie Hodgman. This fund, administered by the Faculty Women's Club, is used for loans to juniors and senior women. Principal, $4,000.*


Warren C. Hunter, Jr. (1958). Established by Dr. Warren C.
Hunter of Portland, Oregon, in memory of his son, Warren, Class of 1952. For a student who has a genuine interest in public affairs, majoring in the social sciences with emphasis in political science. Principal, $3,849.

**Kano Ikeda (1960).** Established by Dr. Charles W. Jarvis, Class of 1942, St. Paul physician, in memory of Kano Ikeda, M.D., chief pathologist at the Charles T. Miller Hospital, and member of the Macalester faculty. For a student majoring in Medical Technology. Principal, $3,430.

**Howard Johnson (1958).** Established by the chain restaurant executive of Wollaston, Massachusetts. Principal, $20,000.

**Julia M. Johnson (1959).** Established by DeWitt Wallace in memory of Mrs. Julia M. Johnson, first woman Professor at Macalester (English Literature 1898-1935) and first Dean of Women. Principal, $8,000.

**Eric Johnston (1958).** Established by the President of the Motion Picture Association of America. Principal, $7,500.

**Dean Richard U. Jones (1959).** Established by former students and friends in memory of Richard U. Jones, Dean of the College, 1917 to 1936 and head of the Chemistry Department, 1903 to 1941. Principal, $650.

**Henry J. Kaiser Family Foundation (1959).** Established by the Henry J. Kaiser Family Foundation of Oakland, California, and named for the industrialist and builder. For a pre-medical student who qualifies on the basis of ability, character and financial need. Principal, $20,000.

**W. K. Kellogg Foundation.** Established by the W. K. Kellogg Foundation of Battle Creek, Michigan, this fund is used for loans and scholarships for Medical Technology students in the Macalester College-Charles T. Miller Hospital Course. Principal, $2,900.

**Dr. William H. Kendall (1960).** Established by Dr. Kendall, a clergyman of Florissant, Missouri, Macalester graduate, Class of 1904. Principal, $1,500.

**James R. Kirby (1960).** Established by Mr. Kirby, educator of
Casper, Wyoming, Macalester graduate, Class of 1951. Principal, $2,500.

Julius Klein (1959). Established by the consultant of Latin American governments and former United States Secretary of Commerce. Principal, $5,000.

Knox Memorial. This fund, established by Mrs. Jane Knox of Jackson, Minnesota, provides loans to worthy students.*


Mrs. William H. Leonard (1959). Established by Mr. and Mrs. George P. Leonard, Macalester, '27, Los Altos, California, in memory of the mother of Mr. Leonard, a San Francisco contractor and realtor. Principal, $9,575.


Hobart and Edith Lewis (1960). Established by Mr. and Mrs. Hobart Lewis of Katonah, New York. Principal, $6,500.

Walter A. Lienke (1961). Established by his bequest and supplemented by the members of his family and friends. To be awarded to students majoring in music. Principal, $1,060.


Roswell Magill (1958). Established by the President of the Tax Foundation, partner in the New York law firm of Cravath, Swaine and Moore, former Under-Secretary of the Treasury. Principal, $5,000.

George M. Mardikian (1957). Established by the San Francisco restaurateur (Omar Khayyam’s) and author. For an unusually talented student from abroad. Principal, $13,500.

Edward Everett McCabe (1920). Established through a bequest in the will of Mr. McCabe, Macalester, '14, a Lieutenant in the U.S. Aviation Corps, World War I, and the first Macalester alumnus to leave a legacy to the College. Principal, $1,000.
Norman H. McRae (1957). Established by alumni and friends in memory of Mr. Norman H. McRae, who was Superintendent of Buildings and Grounds at Macalester 1924-43, leaving to found Multi-Clean Products, Inc., of Saint Paul, manufacturers of floor and building maintenance equipment. Principal, $10,140.50.

Memorial Loan Fund. This fund, established through gifts to the college, is used specifically for loans to students for college expenses. Principal, $17,500.

Merriam Park Presbyterian Church (1926). Established by members of this Saint Paul church. For two students, nominated by the church, who aspire to careers in religious work. Principal, $3,000.

Minnesota and Ontario Paper Company (1959). Established by the manufacturers of specialty papers, newsprint, and insulation materials, Minneapolis. Students from International Falls, Minnesota, Fort Frances and Kenora, Ontario, area given preference. Freshmen eligible. Principal, $6,000.

Lois and James Monahan (1958). Roving Editor and Senior Editor, respectively, of the Reader's Digest. Mrs. Monahan writes under the name Lois Mattox Miller. Principal, $7,500.

Malcolm Muir (1962). Established by Mr. Muir, president and editor-in-chief of Newsweek magazine. Principal, $5,000.

James Mulvey Memorial (1922). Established by the Misses Jessie and Edna Mulvey in memory of their father, James Mulvey, a lumberman. For a student committed to full time church service. Principal, $12,500.

Carl Bertram Myers (1921). Established by S. F. Myers of Saint Paul in memory of his son. Principal, $1,000.

National Defense Student Loans. Macalester College participates in the National Defense Student Loan program, created under the National Defense Education Act of 1958. These loan funds are available to eligible students on a long term (11 year) basis at a low rate of interest (3%) beginning one year after discontinuing a full time course of studies. Applications must be made to the Student Financial Aid Committee on forms provided by the College. Principal, $171,000.
Edward John Noble Foundation (1958). Established by the late Chairman of both the American Broadcasting Company and the Beech-Nut Life Savers Corporation, New York, and continued by the Foundation. Principal, $21,000.

Elmer E. Nyberg (1961). Established by Stanley Home Products, Inc., Easthampton, Massachusetts, and its employees to honor Mr. Nyberg, Macalester Class of 1922, and educational director of the company for 30 years. Principal, $101,415.79.


Ella M. Osborne (1942). Established through a bequest in the will of Mrs. Edwin W. Osborne of Saint Paul, wife of the chief fire and insurance inspector, for many years, of the Northern Pacific Railroad. Principal, $2,800.


David C. Primrose (1956). Established by his family, friends and former students in memory of Mr. David C. Primrose, Director of Physical Education and track coach at Macalester, 1926-1954. For a male junior student who participates in intercollegiate activities, possesses leadership ability and satisfactory academic standing. Principal, $7,596.75.


Samuel Wesley Raudenbush Memorial (1956). Created by Mrs. Alma M. Raudenbush as a memorial to her husband. It is awarded
to a Protestant woman student, during her junior year, who is a major in music. Principal, $5,000.


Stanley Resor (1958). Established by the Chairman of the Board of J. Walter Thompson, New York, world wide advertising agency. Principal, $5,050.

Bryan McDonald Rice (1961). Established by President and Mrs. Harvey M. Rice, and friends, in memory of their son who died in his Freshman year at Macalester. Principal, $12,530.


William F. Rogers Memorial. This fund, bequeathed by Mr. William F. Rogers, provides income which is available for student loans.*

George W. Romney (1961). Established by Mr. Romney, president, American Motors Corporation. Principal, $5,100.

S. W. Royce (1957). Established by the President of the Pasadena-Sheraton Corporation of California. For a student of unusual promise. Principal, $13,000.

Harry J. Rudick (1958). Established by Professor of Law, New York University, and partner of the New York law firm of Lord, Day & Lord. Principal, $8,750.

Saint Paul Presbytery (1931). Established by the Presbytery. For a student nominated by the Presbytery. Principal, $1,159.

Clarke Salmon (1959). Established by Mr. and Mrs. DeWitt Wallace in memory of the New Orleans editor, Clarke Salmon, who was a founder of the American Society of Newspaper Editors and of the Associated Press Managing Editors Association. Principal, $3,000.

David Sarnoff (1959). Established by The Radio Corporation of America in honor of its Chairman of the Board. Principal, $20,000.

Harry Scherman (1958). Established by the founder and Chairman of the Board of the Book of the Month Club. Principal, $5,000.

Senior Loan Fund. This fund has been created by Messrs. DeWitt Wallace, Charles B. Thomes and George P. Leonard for the specific purpose of providing needy senior students with low interest, easy payments loans; interest at 4% begins October 1, following graduation. Principal, $19,200.

Service Loans. Candidates for church vocations in the United Presbyterian Church, U.S.A., are eligible for these service loans. Applications should be made through the presbyteries to the Board of Christian Education of the United Presbyterian Church, U.S.A. Amounts will vary in individual cases with $600 as the maximum aid for the four years.

Thomas Shaw (1931). Established by the late Professor Shaw, who was a member of the Board of Trustees 1898-1918 and President of the Board 1901-1919. For a student nominated by the Central Presbyterian Church of Saint Paul. Principal, $3,000.

H. B. Silliman (1915). Established by the late H. B. Silliman of Cohoes, N.Y. Principal, $1,000.


Admiral Lewis L. Strauss (1960). Established by friends of Admiral Strauss in grateful appreciation of his distinguished public career and for his Commencement address (1960) at Macalester. Principal, $14,025.

Henry Strong Educational Foundation. This fund was created under the will of General Henry Strong for loans to juniors and seniors in the upper third of their class. Interest at 5% begins to accrue at graduation. Repayment may be made over a four-year period beginning at graduation. Principal, $22,000.

Dwight D. Stuessy (1957). Established by alumni, friends and members of the "M" Club in memory of Dwight D. Stuessy, the Athletic Director at Macalester 1946-1957. Principal, $7,727.40.

Synod (1931). Established by individual Presbyterian churches in the Synod of Minnesota. Principal, $2,300.
Henry J. Taylor (1957). Established by the United States Ambassador to Switzerland. For an unusually promising young man. Principal, $5,000.


Lowell Thomas (1957). Established by the author, newscaster and lecturer. Principal, $18,000.


DeWitt Wallace—Lila Acheson Wallace Honorary Scholarship Fund (1959). Established by the faculty and staff of Macalester College in honor of Mr. and Mrs. Wallace in appreciation of their magnificent contributions to Macalester; to be awarded to a student of high intellectual promise and in serious financial need. Principal, $3,076.11.

James Wallace (1916). Established by the family of Dr. Wallace, who was at Macalester 1887-1939 and was president 1894-1906. Principal, $33,800.

James Wallace Alumni Loan Fund. This fund was established by the Alumni Association as a memorial to Dr. James Wallace. The principle of this fund is available for juniors and seniors who have maintained a scholastic average of C or better for the year preceding the granting of the loan. Principal, $20,200.

Janet D. Wallace (1959). Established by John C. Benson, Minneapolis attorney and Macalester trustee, in memory of Janet D. Wallace, the wife of Dr. James Wallace, Macalester's fifth president. Principal, $14,000.


O. T. and Kathryn M. Walter (1954). Established by former pre-medical and pre-dental students in honor of Dr. Walter, Professor of Biology at Macalester since 1922, and in memory of Mrs. Walter. For a pre-medical student in his senior year who has made the most of his opportunity at Macalester College and who by his character, scholarship and citizenship gives great promise of success in his chosen profession. Principal, $17,418.50.

Mr. and Mrs. Howard F. Ware (1953). Established through a bequest in the will of Mrs. Howard F. Ware, the wife of the Saint Paul realtor. Principal, $1,775.33.

E. A. Webb (1915). Established through a bequest in the will of Mr. Webb, founder of the Webb Publishing Company of Saint Paul and of The Farmer. For a student from the Central Presbyterian Church of Saint Paul. Principal, $3,000.


White-Olds (1960). Established by Dr. F. Laurence White and his wife, Dorothy Olds White, missionary educators, in memory of their parents. Dr. and Mrs. White are alumni of Macalester, Class of 1923. Principal, $6,896.75.

Grace B. Whitridge (1956). Established by former students of Miss Whitridge, Professor of Drama and Speech at Macalester 1900-1941. Principal, $9,587.50.


Williams Brothers (1931). Established by Louis H. and Charles R. Williams, the hardware merchants of Minneapolis. Principal, $1,000.

Winona Grace Presbyterian Church (1931). Established by what was originally the First Presbyterian Church, Winona, Minnesota. For a student nominated by this church. Principal, $1,000.


Marie Wunderlich (1959). Established by Martin Wunderlich,
Omaha and San Francisco contractor, in memory of his mother, Marie Wunderlich, who brought him at the age of three to this country from Denmark. For a student preferably of Danish background. Principal, $10,000.

Mary and Thomas Young (1961). Established by Mr. and Mrs. Young, financiers, Portland, Oregon. Principal, $8,000.


Many service and local organizations offer loans to students for their college education. There are many of these throughout the State of Minnesota. Information concerning this type of loan may be had by contacting a high school counselor or the chairman of the Financial Aid Committee of Macalester College, St. Paul 1, Minnesota.

*Principal is included in sum listed under Memorial Loan Fund.

ANNUALLY CONTRIBUTED SCHOLARSHIPS

In addition to the endowed scholarships, a number of Macalester students each year are awarded scholarships from outside sources in consultation with the College.

The National Merit Scholarship Corporation, Evanston, Illinois, is one of these sources. More than sixty National Merit scholars have enrolled at the College in the history of the program. The program is sponsored by more than 100 American corporations.

Reader's Digest Merit Scholarships. Twenty scholarships for students from any state who plan to attend Macalester College. Unrestricted as to course of study or career plans.

The Board of Christian Education of the United Presbyterian Church in the U.S.A. awards a number of National Presbyterian Scholarships each year to qualified Presbyterian students on the basis of competitive examinations. Winners elect to enroll in one of the nation's Presbyterian college. Many of these scholarship winners attend Macalester College.

The Charles and Ellora Alliss Educational Foundation, an educational trust created by the will of the late Charles Clifford Alliss of Gull Lake, Minnesota, provides for fourteen scholarships of $750 each per year for four years or a total of $42,000, for the benefit of undergraduate students selected by Macalester.
Among other donors of scholarships to Macalester College are:

- African-American Institute
- Allis Chalmers Foundation, Inc.
- American Association of University Women
- Board of Christian Education
- William Boss Foundation
- Otto Bremer Foundation
- A. L. Cole
- Deubener-Juenemann Foundation
- Henry Doherty Educational Foundation
- Miss Margaret M. Doty
- Mrs. Walter B. Driscoll
- Episcopal Church Women
- General Electric Educational & Charitable Fund
- General Mills, Inc.
- General Motors Corporation
- Otis H. Godfrey, Sr.
- Arthur E. Griffiths
- Institute of International Education
- International Milling Company
- International Properties, Inc.
- Jones & Laughlin Steel Corporation
- Joseph E. McElvain
- Merriam Park Presbyterian Church
- Minneapolis Star & Tribune
- Minnesota Petroleum Council
- National Office Management Association
- Northwestern National Life Insurance Company
- Order of the Eastern Star — Walker, Minnesota
- Parent-Teacher Association
- Presser Foundation
- Eugene C. Pulliam
- Reader's Digest Foundation
- Sears-Roebuck Foundation
Tozer Foundation
United Scholarship Services
DeWitt Wallace
DeWitt Wallace–Lila Acheson Wallace Honorary Scholarship from
Faculty–Staff of Macalester College
Women’s Welfare League

In addition, numerous other corporations, churches and church
organizations, foundations, individuals and service clubs contribute
annually to the scholarship program.

PRIZES

At Macalester College the following prizes are awarded in recog­
nition of scholastic achievement and for accomplishment and
proficiency.

Virginia McKnight Binger Prize in the Humanities. An award of
$100 in cash and a copy of Bury’s History of Greece and Cary’s
History of Rome to each of two students, one who shows the greatest
proficiency in Greek, Latin, or Ancient History, and one who shows
the greatest proficiency in modern language or literature.

Class Prizes. The ten highest ranking students of the freshman,
sophomore and junior classes, respectively, are granted prizes of $100,
and the next ten in rank of each of these classes are granted prizes
of $50. The prizes are not in the form of cash, but in the form of
credit during the next two semesters in College.

Noyes Prizes. Mrs. D. R. Noyes has given $2,000, the interest of
which is used as prizes for student scholarship. These are awarded
to the first honor students of the senior, junior and sophomore
classes.

Funk Prizes. For the encouragement of outstanding achievement
in history, the Henry D. Funk Memorial Foundation, established in
1929 by the late Mrs. Lydia C. Funk, offers $100 annually in three
prizes of $50, $35 and $15. These prizes are awarded respectively to
the senior and two juniors, majoring in history, who have demon­
strated the highest achievement in the work of the department.
Edwin Kagin Prize Scholarship. Established by Dr. and Mrs. William H. A. Watson and other former students and friends of Dr. Kagin, Professor of Religion at Macalester, 1926-52, a prize of $350. Awarded annually by the Department of Religion for outstanding achievement by a student who is preparing for a church vocation or a related field. The award is made at the end of the Sophomore year for use in the Junior year. Principal, $12,455.50.

North Central Publishing Company Prize in Journalism. Mr. Alfred Muellerleile and Mr. Gordon Conoryea offer a scholarship prize of $100 annually to be applied to the senior year tuition of that member of the junior class who, in addition to majoring in journalism, has maintained an average grade of at least B in departmental courses, has actively engaged in publications work on the campus, and shows promise of success in the field of practical journalism.

Stringer Prize. In honor of the memory of her husband, Mrs. E. C. Stringer bequeathed $500, the income from which is awarded each year to that student of the College, who, having not fewer than fourteen recitations a week, wins the first place in the preliminary oratorical contest, and represents the College in the state contest.

Collins Prizes in Extemporaneous Speaking. A contest in Extemporaneous Speaking is held annually. For this purpose Dean G. Rowland Collins, Class of ’16, of New York University, offers each year prizes totaling $50, divided into three prizes of $30, $15, $5.

Isaac Walton League Prize. The Minnesota Division of the Isaac Walton League offers each year a prize of $100 to the junior or senior student who has demonstrated his interest in the conservation of resources by a research project or activity designed to promote the cause of conservation. A part of the prize can be used to cover expenses incurred through the project, the remaining sum is awarded at Commencement.

Kappa Delta Pi Prize. (National Honorary Society in Education).—Awarded annually by Eta-Eta Chapter of Macalester College to the outstanding sophomore student who is planning to enter the teaching profession.

H. S. Alexander Prize. In honor of Dr. Hugh S. Alexander, Profes-
sor Emeritus of Geology, a prize of $40 is awarded annually to the outstanding senior majoring in geology.

The Wall Street Journal Prize. A medal of merit and a year’s subscription to the Wall Street Journal is given annually to the outstanding senior in the field of economics and business administration.

EMPLOYMENT OPPORTUNITIES

Undergraduate Assistantships. A limited number of seniors with outstanding records are engaged each year in several departments of the College. These persons also gain teaching experience.

Graduate Fellowships. A limited number of Macalester graduates with outstanding records who are engaged in graduate work at the University of Minnesota are granted Fellowships for teaching and research services at Macalester College.

Part-Time Off-Campus Employment. Students who must earn part of their expenses while attending college, or those who desire practical work experience, may receive assistance in obtaining suitable employment from the Student Placement Office. Regular or occasional jobs of various kinds are available.

Service Contracts. Students applying for financial assistance from the College may be awarded as part of their assistance the opportunity to work on campus through a service contract. Most of the opportunities for work on the campus are awarded through these service contracts. See page 145 for further information.
SUMMER SESSION

ARNOLD HOLTZ, DIRECTOR

The annual Summer Session, an integral unit of Macalester College, is designed to serve the needs of these groups:

1. Regular college undergraduates who wish to shorten the time necessary for earning their degree.
2. In-service teachers who wish to advance professionally or to work towards a degree.
3. High school graduates who wish to begin college immediately after high school graduation.

THE SUMMER PLAN

The Macalester College Summer Session for 1963 will begin June 10 and run through August 2. Courses are conducted on a double-time basis, covering semester units in eight weeks. Normally a student may earn eight or nine credits in eight weeks. Those with superior standing may register for more hours upon payment of additional credit hour fees. Each course carries a full semester's credit valuation. High school graduates may earn one and a half years' credit in one calendar year by starting their college course with the Summer Session. Macalester is fully accredited and credits earned in Macalester Summer Session are transferable on the same basis as those of the regular academic year. Admission to the Summer Session does not necessarily constitute admission to the regular college session.

COURSES TO BE OFFERED

Most of the regular college departments offer courses in the Summer Session. The Summer Session bulletin is usually available in March. Write the Director of Summer Session for a copy.

FIFTH YEAR PROGRAM

Macalester now confers the degree, M.Ed. (Master in Education), on holders of bachelor degrees who complete with honor 31 semester
hours. They will select courses in the Department of Education to satisfy requirements for the degree (usually 10 to 13 credit hours, depending on the number of credits already earned) and further courses in the student’s major field or elsewhere for the purpose of broadening the background of the teacher. For further information see Education department write-up. Teachers in service should be able to earn the M.Ed. degree in three or four summers.

REGISTRATION

Students now in Macalester College will pre-register early in May. Those who are not now students in Macalester should write to the Director of Admissions for an application blank.

Teachers who wish to work for a degree should send an application blank, with their college transcript, to the Director of Admissions.

A student now regularly enrolled in another college (who expects to return to that college in September) needs to submit merely the application form and a statement from his own college that he is in good standing.

A new beginning student should send in his application and request his high school to mail his credits to Macalester College.

Registration for the Macalester Summer Session will be in the Gym on Monday, June 10, 1963, and classes begin on Tuesday, June 11.

FEES (1962)

The tuition and general fee is $150. The rate for part-time work (fewer than six credits) is $25 a credit hour. Excess hours rate (more than nine) is $15 a credit hour. Half the payment may be deferred to July 6. Adults who wish to take college courses for their pleasure or profit as auditors (without credit) may do so by paying a fee of $25 per course.

Meals will be served in the Cafeteria on the five-day plan. Estimated cost of meals for the eight-week Summer Session is $85. Room rent in dormitories on the campus is $65 for a double room and $70 for a single room. Prices include bed linen.
COUNSELING AND OTHER SERVICES

Each student in Summer Session has a faculty counselor. In addition, all the other Student Personnel Services are available to Summer Session students. They include special counseling for veterans and selective service registrants, placement services for part-time and full-time jobs, housing, special foreign student advising, specialized counseling on vocational plans and on various other personal matters. Health Service facilities are available at all times.
MACALESTER College had its origin in two educational enterprises established by Dr. Edward Duffield Neill, distinguished Minnesota pioneer missionary and educator. Dr. Neill established Baldwin Academy in St. Paul in 1853, named after Mr. M. W. Baldwin, the famous locomotive builder, a financial supporter of Dr. Neill in his first educational undertakings. Dr. Neill's removal to the East, where he became secretary to President Lincoln, interfered with the plans for the academy, but in 1870 Dr. Neill returned to the West, and in 1872 established a second Baldwin Academy in the Winslow House in Minneapolis. In 1873, the owner of the Winslow House, Mr. Charles Macalester, of Philadelphia, bequeathed Winslow House to the College, which on March 5, 1874, became Macalester College in honor of the donor.

Macalester College as a collegiate institution, was not, however, opened until 1885, although it was formally incorporated in 1874. Dr. Neill was unable to obtain adequate funds for the support of the College until 1880, when the Synod of Minnesota of the Presbyterian Church U.S.A. accepted temporary responsibility for the institution. The trustees of the College in 1883 donated to the College forty acres in St. Paul on which it is now established. They sold the Winslow House and with the proceeds, in 1884, erected the East Wing of the present Main Building. The Synod in the same year completed an endowment of $25,000 for the president's chair. On these small foundations and after years of disappointment, Dr. Neill saw the College open its doors to students on September 15, 1885.

Macalester College is a coeducational institution. From 1885 to 1893, however, it was a college for men only. The first fifteen classes
graduated 100 men students. The total number of graduates, including the Class of 1961, is 6,035.

The endowment of the college has grown from $25,000 in 1885 to $7,499,320 (book value). The present market value of the endowment is in excess of $11,381,381. In 1904, an accumulated debt was paid off, and a campaign begun for $300,000 endowment. The goal was completed in 1911. In 1916, a second effort raised the endowment to $560,000. The second million dollars of endowment was completed in 1941.

The buildings on the campus have been expanded by the erection of Old Main in 1890, Wallace Hall (dormitory for women) in 1907, the Carnegie Science Hall in 1910, the gymnasium in 1924, the central heating plant in 1924, Kirk Hall (dormitory for men) in 1927, the president’s residence in 1927, the Weyerhaeuser Library in 1942, Bigelow Hall and The Little Theater building in 1947, the Student Union building in 1951, the Wilkie astronomical observatory and the Winton Health Service building in 1953. The college has the use of the adjoining Macalester Presbyterian Church as a college chapel. It is also the owner of the Music Conservatory building on Summit Avenue, Rice Hall dormitory, Summit House dormitory, Stella Louise Wood Hall, on Summit Avenue, a number of residences, the Field House, a dormitory for women (Turck Hall) and a dormitory for men (Dayton Hall) both completed in September, 1957. The new wing of the Weyerhaeuser Library was open for use in October 1960. The value of the campus and buildings is $8,066,527.

Presidents of Macalester College:
Rev. Edward Duffield Neill,* D.D., 1873-1884
Rev. Thomas A. McCurdy,* D.D., 1884-1890
Rev. David James Burrell,* D.D., 1890-1891
Rev. Adam Weir Ringland,* 1892-1894
James Wallace,* Ph.D., LL.D., D.D., 1894-1906
Thomas Morey Hodgman,* LL.D., 1907-1917
Rev. Elmer Allen Bess,* D.D., 1918-1923
John Carey Acheson,* A.M., LL.D., 1924-1937
Harvey Mitchell Rice, A.M., Ph.D., LL.D., 1958—

*Deceased.
BUILDINGS

The Main Building contains classrooms, administration offices, faculty lounge and mail room, and the Grille.

The Carnegie Science Hall is a gift of Mr. Andrew Carnegie. The building is devoted to physics, geology, biology, mathematics, astronomy, botany and chemistry.

The Weyerhaeuser Library, erected in 1942 and expanded in 1960, is named in memory of Rudolph M. Weyerhaeuser. This handsome building is of Georgian, or American colonial, design and has a capacity of 150,000 volumes. The library provides adequate seating for 500 students in the reading rooms, individual carrels, seminars, lounges and small group study rooms.

The expansion of the library, completed in 1960, not only increases the space available for readers, books, and work areas but also provides the Margaret MacGregor Doty Lounge for informal meetings of college-related groups and houses on the ground floor the College's Audio-Visual Education Service.

The Music Conservatory Building, located on Summit Avenue, contains a recital hall, office and practice rooms.

Kirk Hall, a dormitory for men, is located on the corner of Lincoln and Snelling Avenues. It is of American Colonial style of architecture, built on the quadrangle plan in nine sections, each opening onto the central court. In most cases the rooms are arranged to provide a study-room with two, and sometimes three, adjoining bedrooms. There are also some single study-bedrooms. The building will accommodate 142 students. One section contains the guest rooms and parlor.

Wallace Hall, a dormitory for women students, was named for James Wallace, fifth president of the college. This three-story, fire-proof brick building contains rooms for 124 students. Although it is modern in equipment, the Hall is old enough to have built up about its family life many traditions and pleasant customs. A laundry open six days a week is available for student use.

Rice Hall, named in memory of the Rev. Daniel Rice, D.D., a former professor and trustee, is a frame building used for housing.

The Gymnasium, of American Colonial design, is thoroughly
modern and complete. The main gymnasium floor is surrounded by a running track. The basement contains a standard swimming pool, handball courts, a field sports room and locker room. The Forbes Memorial Organ is located on the second floor.

Shaw Athletic Field, which was dedicated at the opening of the school year 1909, was named in honor of Professor Thomas Shaw, former President of the Board of Trustees, because of his interest and assistance in the athletics of the institution. It now includes the football field, a quarter mile track, a baseball diamond, hockey rink, tennis courts and practice fields.

Bigelow Hall, the dormitory located on the corner of Macalester Street and Grand Avenue, completed in September, 1947, is named in memory of Frederic R. Bigelow, late chairman of the Board of Trustees (1937-1946), and his brother Charles H. Bigelow, who preceded him as chairman (1925-1936). The architecture is American Colonial in style, and the usual arrangements is a double room with built-in cabinets and desks. The building houses 110 women students.

Little Theater Building was donated by the United States government in 1947. It contains classrooms and offices, a student lounge, a modern, completely equipped language laboratory and an auditorium with fully equipped stage and seating capacity for 300 persons.

Stella Louise Wood Hall is named in honor of Stella Louise Wood, founder of Miss Wood's Kindergarten and Primary Training School.

Summit House is two comfortable and attractive homes located at 1568 and 1576 Summit Avenue. The two homes are connected by an enclosed ambulatory. The combined accommodations provide residence for 42 women students.

The Student Union Building, located just north of Kirk Hall on the corner of Grand and Snelling Avenues, is of American Colonial design. A large cafeteria, faculty lounges, the book store, the post office, the Alumni Association office and student organization offices are in this building. A large, general lounge, two floors high, dominates the interior and is bordered at the second floor level by a mezzanine balcony on three sides. The lounge is available for all student social functions. The building was completed in September, 1951.
The Wilkie Observatory, the gift of the Wilkie Foundation consisting of Robert J. Wilkie, James W. Wilkie and Leighton Wilkie, is a one-story, 32-foot long building with an observation platform at one end surmounted by an aluminum dome. The eight-inch Newtonian reflector type telescope mounted in the dome is the gift of Robert J. Wilkie. The building is at the south end of Shaw field.

The Winton Health Service Building, located at the northwest corner of Grand and Snelling avenues, is named in memory of the late Mr. and Mrs. Charles J. Winton and is the gift of their three children, Mrs. Carl W. Jones, Charles J. and David J. Winton. Attractively furnished and completely equipped throughout, the building includes: a large waiting room, doctor's office, examination room, physical therapy room, X-ray room, kitchen, drug room, laboratory, three two-bed wards, an isolation room and a three-room and bath apartment for the two resident college nurses.

The Field House, a $400,000 building complete with classrooms and offices in addition to athletic facilities, was formally dedicated in December, 1956. It is connected to the Gymnasium and gives the College a physical education plant unequalled by any private college in this area.

Two new dormitories finished in 1957 house 132 men and 150 women. The men's hall is Dayton Hall and the women's hall is Turck Hall.

MACALESTER COLLEGE ALUMNI ASSOCIATION

The Alumni Association of Macalester College has two objectives: to bind into a unit the graduate body, and to further the interests of Alma Mater. Communications to the Alumni Association should be sent to the Alumni Office. Checks for contributions should be made out to "Macalester College Alumni Fund."

Macalester holds Class A, B1, B2 and C memberships in The American Alumni Council. The official publication of the Association is the Macalester College Bulletin edited by A. Phillips Beedon, '28, Associate Director of Development for Alumni Affairs and Publications. Lloyd J. Peitzman, '58, is Alumni Secretary.

Macalester Clubs (Clans) whose membership is made up of both graduates and former students are active in some 50 centers in the United States and abroad.
OFFICERS—1961–1962
Fred H. Koch, ’33 .................................................. President
Caroline Thomson-Ward, ’52 ........................................ Vice-President
Lois Critchfield-Awsumb, ’46 ......................................... Secretary
F. Keith Hunt, ’42 .................................................. Treasurer

BOARD OF DIRECTORS
The Board of Directors of the Alumni Association meets bi-monthly during the school year on the first Thursday at 6:00 P.M. in the Wallace Hall private dining room. Directors, of whom there are 18, serve for a three-year term.

ADVISORY COUNCIL
By action of the Board of Directors, an Advisory Council was set up in January 1949. The Council membership includes the presidents or chairmen of every organized Macalester Club (Clan) in the United States and abroad with personnel changing as new officers are elected.

The Council is designed to bring wide geographical representation of the alumni group to the Board of Directors. These members are ex-officio members of the Board, participate in all discussions, but are not entitled to vote.
DEGREES CONFERRED
ACADEMIC YEAR 1960-1961

BACHELOR OF SCIENCE IN ART EDUCATION
Leonard J. Murphy

Walter G. Baskerville, Jr.
Milton B. Bock, Jr.
Loren C. Bolduc
George Barton Bonniwell
Richard Frank Budolfson

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION
Lance Justin Johnson
Cornel Robert Jones
Dennis Clayton Kisby
Guy Clifford Knapp
Ronald Kratz

Marlan H. Carlson
James R. Carroll
Laurrette M. Clements
Joyce I. Dahlberg
Thomas Lowell Dynneson
Ray Phillip Farrell
David C. Frederiksen
David G. Hahn
Ruth Hannah
Harlan Lee Hanson
Dallas E. Herrick

Karen J. Bangsund
Gwynn Bentley
Phyllis Jacqueline Borchert
Barbara Ann Brittain
Christine W. Carr
Nancy C. Caza
Anita Gail Clingman
Elizabeth Mary Cofield
Molly Morony Cox
Rita Marie Crawford
Mary Elizabeth Dinkel
Harriet T. Duerre
Nancy Gesme Ellis
Marie L. Forsberg
Dorothea C. Garber
Lou Ann S. Gebhard

BACHELOR OF SCIENCE IN ELEMENTARY EDUCATION
Wilna Ann Gibbons
Edna Lee Gierach
Judith Elaine Glewwe
Sandra D. Gordon
Audrey B. Hanna

Mary Kathryn Hansen
Jacqueline R. Hassing
Joy Yvonne Hedman
Darlene Signe Hodges
Gail Stewart Hofmaster
Evelyn Rose Howard
Betty Lu Joos
Joyce Elizabeth Jopp
Mary Allison Kohn

cum laude

Departmental Honors
John A. Utter, Jr.
Michael Henry Wammer
Carl D. Wingren

176
Kittie Fay Krause
Hanna Jo Tecklenburg Kyhl
Jessie Thellin Lammers
Mabelle L. Lerstad
Delores L. McElhaney
Jeanette Irene Makynen
Virginia Lee Markowitz
Sandra Joyce Martens
Joan M. Meisser
Lana Dorothy Millman
Mary A. Murphy
Jeanette Murray
Joan Nikkel
Edith A. Nutwicks
Carol Marlene Olson
John Palutke
Ruth Marian Pettersen
Barbara Ann Piper
Marcia Anne Pliefske

Marian Hood Radke
Margaret A. Rarig
Virginia H. Roadfeldt
Beverly A. Rosen
Beverly Joy Rydberg Shupe
Barbara Ann Sigurdson
Barbara Jean Smith
Janice Ruth Sprenger
Bonnie Renee Starkey
Myrna Rose Strand
Jean Catherine Stukel
Janet Louise Tanglen
Judd Thompson
Margaret A. Walls
Lorraine Eleanor Wendt
M. Andrea Wieland
Edith Sceli Williams
Burah Moh Wu
Martha Scales Zachary

BACHELOR OF SCIENCE WITH A FUNCTIONAL MAJOR RELATED TO NURSING

Adalaide Penelope Adams
Loy Estelle Naaktgeboren

Marianne Goldenman Anderson

BACHELOR OF SCIENCE IN MEDICAL TECHNOLOGY

Barbara L. Cowle
Gretchen Schade Tjossem

BACHELOR OF SCIENCE IN PHYSICAL EDUCATION

Kenneth L. Anderson
Ramona Pigman Anderson
Allen Roger Andreotti
Beverly Erickson Chapman
Karen Sonja Johnson
Robert Kamish
Thomas P. Lilja

Bessie Marmas
Malcolm Montgomery McKay
Patrick James O'Grady
Delores Ann Stone
Darryl L. Wikstrom
Marilyn Hancock Wooldridge

BACHELOR ARTS

Susan Adams
Gayle Ostedt Alberg
Lyle Miller Anderson
Richard A. Anderson
Orlo C. Andrist
Kofi A. Annan

Ann Armantrout Lundeen

Nancy Jo Barth
Roxann L. Beihl
Peter Rodney Charles Bina
Sharon Louise Bishop

magna cum laude

cum laude

magna cum laude
Richard Scott Blair
Ardes Blumstein
Garry Griswold Blunt
Yvette Marie Boe

Departmental Honors
Charles G. Boody
cum laude
Sandra Louise Boxrud
Barbara J. Braun
Larry Dean Bultena
Lowell Bush
cum laude
William Leslie Bush, Jr.
Jean Alice Carlson
magna cum laude
Jo Ann Carothers
cum laude
William E. Carr
Kay G. Carroll
cum laude
Dwight Ralph Chamberlain
magna cum laude
James Craig Chesser
Natalie Clark
magna cum laude
Janet Eleanor Clemans
Robert Cole
Barbara Joan Cudd
Caren Ruth Damberg
Deborah Jane Davis
Volker Dohmen
Carolyn F. Dolliff
Timothy G. Donovan
Arnold Gene Dorhout
Edward J. Dysart
John Eppeland
Edward James Fenlason
Edis M. Flowerday
summa cum laude
J. Elaine Freye
Joseph Alan Giddings
Chester Raymond Gillies
Richard A. Glasenapp
Elise Anne Glenn
Carol Ann Gorgenson
Virginia N. Green
Paul Dennis Gubrud
Barbara Rose Haney
James P. Hansen
Bruce Averill Harden
Dimitrios Hatzidimitriou
Jean E. Helkenn
cum laude
Reed C. Hildreth
H. Louise Hinrichs
cum laude
Kenneth Allen Hoffman
Jeanne J. Hohlfelder
Floyd Gary Hubley
Betty Ellen Irwin
cum laude
Douglas M. James
Gerald Francis Johansen
Kenneth Lauren Johnson
Merle A. Jungclaus
Warren P. Kelly
cum laude
Michael John Kirkhoff
Linda J. Klein
Floris Ann Kloos
cum laude
Ronald Earl Knudsen
Janet K. Kohler
Kay Koschnick
Paul William Krause
Roger I. Krech
Howard Krueger
Wanda Charlene Kuhl
cum laude
Arne T. Lagus
David Dunlea Laube
Sandra M. Lehmann
Mary Ann Leverenz
summa cum laude
Darwyn E. Linder
summa cum laude
Kay Abbie Lorans
summa cum laude
Judith Kommerstad Lund
magna cum laude
Sharon E. Lurth
Jillayn Farrell Malmstrom
Connie Jean Martinson
cum laude
DEGREES CONFERRED

Karen Lee Matlock  
\textit{cum laude}

Jean K. Matson  
\textit{magna cum laude}

Michael Thomas Mattox

Gordon Reed McCoy

Martha Lu McDonald

Alan Gauld McIvor

Dorothy Stine McPherson  
\textit{cum laude}

William McPherson  
\textit{summa cum laude}

Bert John Meine

Kent Calvin Miller

Jacquelyn Mobley

Ronald Gordon Mogen

Gerald William Montgomery

Lois Montgomery

Thomas A. Morgan

John Hamilton Mossier

John Marfield Nash

Gail Naomi Nelson

Janet Louise Nelson

Margaret E. Newman

Karen Dee Nordhus

James Curtis North  
\textit{cum laude}

Penelope S. Nyline

Laurence Elwood Nyquist  
\textit{summa cum laude}

Larry Olds

Mary Holden Olson

Lorna Rosella Oltmans

Charlotte R. Osborne  
\textit{cum laude}

Alice Christine Ostrom

Walter Edward Otto III

Katherine Ouhl

Craig Arthur Palmer

Susan Kaye Parker  
\textit{summa cum laude}

Richard Rogers Parks

Peggy Ann Peet

Kathryn E. Peterson

Mary Leone Pfaflin

Dorothy Anne Pollema

Dennis P. Raasch

Abigail Bertha Cordelia Raddatz

Gretchen Mary Ramlow  
\textit{cum laude}

Jean Louise Robinson

Joanne Ruth Robson

Lanny Ross

Robert B. Salls

Elizabeth Ann Sargent

Lyman Tower Sargent

Howard E. Schorn

Robert Stanley Schuman

Robert Gerald Schwartz

Robert A. Seitz

LaDonna M. Skoog

Diana Leone Smith

Robert Alan Stebbins

Barbara Lee Stiles

Fordyce Edward Stivers

Joan Ellen Symons

John S. Twohig

Janet Elaine Vaughan

Forrest G. Wahl

Priscilla Jane Wallace

John G. Weins

John Robert Wentz

Thomas McKay Wilmot  
\textit{cum laude}

George Leroy Wirkkula

Janet A. Wykes

John Howard Zupfer

MASTER IN EDUCATION

Roy E. Almen

Frank W. Cummings

Ronald H. Hegg

Harvey A. Lundin

Walter J. Rock, Jr.

Neal E. Simons

Charles Edward Simonson

Max R. Sparger

Larry H. Stotts

Paul M. Streif

Walter A. Wildung
### SUMMARY OF REGISTRATION FOR 1961-1962

#### Summer Session 1961

<table>
<thead>
<tr>
<th></th>
<th>Men</th>
<th>Women</th>
<th>Total</th>
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<tbody>
<tr>
<td>Freshmen</td>
<td>251</td>
<td>246</td>
<td>497*</td>
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<tr>
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<tr>
<td>Plus 165 nursing students taught at the hospitals</td>
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#### First Semester 1961-62

<table>
<thead>
<tr>
<th></th>
<th>Men</th>
<th>Women</th>
<th>Total</th>
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<tbody>
<tr>
<td>Freshmen</td>
<td>216</td>
<td>234</td>
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<tr>
<td>Sophomores</td>
<td>224</td>
<td>218</td>
<td>442</td>
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<tr>
<td>Juniors</td>
<td>161</td>
<td>180</td>
<td>341</td>
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<tr>
<td>Seniors</td>
<td>117</td>
<td>132</td>
<td>249</td>
</tr>
<tr>
<td>Master of Education</td>
<td>3</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td>5th Year Med. Tech.</td>
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<td>5</td>
</tr>
<tr>
<td>Condensed Elem. Educ.</td>
<td>2</td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>Condensed Sec. Educ.</td>
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<td>2</td>
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</tr>
<tr>
<td>Special Students</td>
<td>30</td>
<td>23</td>
<td>53</td>
</tr>
<tr>
<td>Nurses (First Year)</td>
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<td>271</td>
<td>271</td>
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<tr>
<td>Total</td>
<td>754</td>
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<td>1825</td>
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#### Second Semester 1961-62

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<tr>
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</thead>
<tbody>
<tr>
<td>Freshmen</td>
<td>202</td>
<td>220</td>
<td>422</td>
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<tr>
<td>Sophomores</td>
<td>206</td>
<td>202</td>
<td>408</td>
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<tr>
<td>Juniors</td>
<td>155</td>
<td>172</td>
<td>327</td>
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<tr>
<td>Seniors</td>
<td>100</td>
<td>117</td>
<td>217</td>
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<tr>
<td>Master of Education</td>
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<tr>
<td>5th Yr. Medical Tech.</td>
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<tr>
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<tr>
<td>Nurses (First Year)</td>
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<tr>
<td>Total</td>
<td>681</td>
<td>985</td>
<td>1666</td>
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#### Academic Year 1961-62

<table>
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<tr>
<th></th>
<th>Men</th>
<th>Women</th>
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</thead>
<tbody>
<tr>
<td>Freshmen</td>
<td>223</td>
<td>234</td>
<td>457</td>
</tr>
<tr>
<td>Sophomores</td>
<td>231</td>
<td>219</td>
<td>450</td>
</tr>
<tr>
<td>Juniors</td>
<td>163</td>
<td>184</td>
<td>347</td>
</tr>
<tr>
<td>Seniors</td>
<td>117</td>
<td>133</td>
<td>250</td>
</tr>
<tr>
<td>Master of Education</td>
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<td>5</td>
</tr>
<tr>
<td>5th Year Medical Tech.</td>
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<tr>
<td>Condensed Sec. Educ.</td>
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<td>2</td>
<td>4</td>
</tr>
<tr>
<td>Special Students</td>
<td>37</td>
<td>30</td>
<td>67</td>
</tr>
<tr>
<td>Nurses (First Year)</td>
<td>0</td>
<td>271</td>
<td>271</td>
</tr>
<tr>
<td>Total</td>
<td>778</td>
<td>1084</td>
<td>1862</td>
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</table>

#### Summer Session 1961 and 1961-62 Academic Year

<table>
<thead>
<tr>
<th></th>
<th>Men</th>
<th>Women</th>
<th>Total</th>
</tr>
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<tbody>
<tr>
<td>Freshmen</td>
<td>227</td>
<td>237</td>
<td>464</td>
</tr>
<tr>
<td>Sophomores</td>
<td>232</td>
<td>221</td>
<td>453</td>
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<tr>
<td>Juniors</td>
<td>163</td>
<td>192</td>
<td>355</td>
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<tr>
<td>Seniors</td>
<td>119</td>
<td>152</td>
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<tr>
<td>Master of Education</td>
<td>16</td>
<td>5</td>
<td>21</td>
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<tr>
<td>5th Year Medical Tech.</td>
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<tr>
<td>Condensed Sec. Educ.</td>
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<tr>
<td>Special Students</td>
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<td>116</td>
<td>292</td>
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<tr>
<td>Nurses (First Year)</td>
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<td>271</td>
</tr>
<tr>
<td>Total</td>
<td>937</td>
<td>1206</td>
<td>2143</td>
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RELIGIOUS PREFERENCES FIRST SEMESTER 1961-1962

Presbyterian 524
Lutheran 354
Methodist 150
Congregational 121
Episcopal 103
Baptist 41
Catholic 47
Other Church memberships 148
None given 66

Total 1554

GEOGRAPHICAL SURVEY 1ST SEMESTER 1960-61 AND 1961-62

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>St. Paul</td>
<td>384</td>
<td>23.06</td>
<td>301</td>
<td>19.37</td>
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<tr>
<td>Minneapolis</td>
<td>294</td>
<td>17.66</td>
<td>251</td>
<td>16.15</td>
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<tr>
<td>Suburbs</td>
<td>136</td>
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<td>143</td>
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Geographical Survey 1st Semester, 1961-62

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<th>State</th>
<th>No. Students</th>
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<td>Connecticut</td>
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<td>Georgia</td>
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</tr>
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<td>Idaho</td>
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<tr>
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<tr>
<td>Missouri</td>
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<tr>
<td>Montana</td>
<td>17</td>
</tr>
<tr>
<td>Nebraska</td>
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<tr>
<td>New Hampshire</td>
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<tr>
<td>New Jersey</td>
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</tr>
<tr>
<td>New Mexico</td>
<td>5</td>
</tr>
<tr>
<td>New York</td>
<td>15</td>
</tr>
<tr>
<td>North Carolina</td>
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<td>North Dakota</td>
<td>37</td>
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<tr>
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Total: 374 students residing in states outside Minnesota.

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<tr>
<td>Brazil</td>
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<tr>
<td>Canada</td>
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<td>China</td>
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<tr>
<td>England</td>
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<tr>
<td>Ecuador</td>
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<tr>
<td>Germany</td>
<td>3</td>
</tr>
<tr>
<td>Holland</td>
<td>1</td>
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<tr>
<td>Iceland</td>
<td>1</td>
</tr>
<tr>
<td>Hong Kong</td>
<td>7</td>
</tr>
<tr>
<td>India</td>
<td>2</td>
</tr>
<tr>
<td>Iran</td>
<td>3</td>
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<tr>
<td>Italy</td>
<td>1</td>
</tr>
<tr>
<td>Japan</td>
<td>3</td>
</tr>
<tr>
<td>Kenya</td>
<td>2</td>
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<td>Korea</td>
<td>2</td>
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<tr>
<td>Liberia</td>
<td>1</td>
</tr>
<tr>
<td>Nigeria</td>
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<tr>
<td>Tanganika</td>
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<tr>
<td>Thailand</td>
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</tr>
<tr>
<td>Spain</td>
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</table>

Total: 45 American citizens whose home addresses are outside of Continental United States

<table>
<thead>
<tr>
<th>Country</th>
<th>No. Students</th>
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<tbody>
<tr>
<td>Haiti</td>
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</tr>
<tr>
<td>India</td>
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</tr>
<tr>
<td>Indonesia</td>
<td>1</td>
</tr>
<tr>
<td>Iran</td>
<td>1</td>
</tr>
<tr>
<td>Lebanon</td>
<td>1</td>
</tr>
<tr>
<td>Venezuela</td>
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Total: 6

Total: 51 students residing outside Continental United States
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